

# SOLAR PUMP

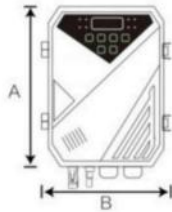
PROFESSIONAL SOLAR PUMP MANUFACTURER



## CONTROLLER



DC controller



Wide Voltage HV Controller ( $\leq 2.2KW$ )



AC/DC auto-switching controller ( $\leq 2.2KW$ )



Wide voltage HV controller (3KW)



AC/DC auto-switching controller (3KW-4KW)



AC/DC controller (4KW)



AC/DC auto-switching controller (5.5KW-22KW)



AC/DC controller (26KW-37KW)

## TECHNICAL DATA

Model	Dimensions(cm)			Weight (kg)
	A	B	C	
DC controller	21.5	18	8	1.5
Wide voltage HV controller ( $\leq 2.2KW$ )	24	23.5	11	2.2
Wide voltage HV controller (3KW)	29	23	11	2.4
AC/DC auto-switching controller ( $\leq 2.2KW$ )	24	23.5	11	2.3
AC/DC auto-switching controller (3KW-4KW)	29	23	11	2.5
AC/DC controller (4KW)	30.5	25.5	16	5.4
AC/DC auto-switching controller (5.5KW-13KW)	30.5	25.5	16	5.5
AC/DC auto-switching controller (15KW-22KW)	37	28.5	16.5	8.4
AC/DC controller (26KW-37KW)	45	24.5	22	17.8

## WORKING ENVIRONMENT AND ELECTRICAL PROPERTY

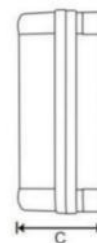
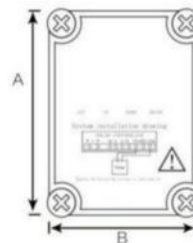
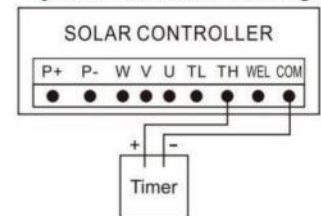
Controller and Pump Matching Method					
Controller Model	Adaptable Pump	Max. Input Current (A)	Max. Open Circuit Voltage (V)	Optimum MPPT Voltage(V)	Working Temperature (°C)
DF-12	Rated 12V Pump	17	<60	30-48	-15 ~ 60
DF-24	Rated 24V Pump	17	<60	30-48	-15 ~ 60
DF-36	Rated 36V Pump	17	<60	30-48	-15 ~ 60
DF-48	Rated 48V Pump	17	<120	60-90	-15 ~ 60
DF-72	Rated 72V Pump	17	<170	90-120	-15 ~ 60
DF-110	Rated 110V Pump	17	<220	110-150	-15 ~ 60
DF-72-A/D	Rated 72V-A/D Pump	17	<450	100-350	-15 ~ 60
DF-110-A/D	Rated 110V-A/D Pump	17	<450	110-350	-15 ~ 60
DF-150-A/D	Rated 150V-A/D Pump	17	<450	150-350	-15 ~ 60
DF-200-A/D	Rated 200V-A/D Pump	17	<450	200-350	-15 ~ 60
DF-245-A/D	Rated 245V-A/D Pump	17	<450	245-350	-15 ~ 60
DF-300-A/D	Rated 300V-A/D Pump	17	<450	300-350	-15 ~ 60
DF-520-A/D(3-22KW)	Rated 520V-A/D Pump	17-56	<900	520-650	-15 ~ 60
DF-520-A/D(26-37KW)	Rated 520V-A/D Pump	50-69	<800	520-650	-15 ~ 60
DF-110-HV	Rated 110V-HV Pump	17	<450	110-350	-15 ~ 60
DF-150-HV	Rated 150V-HV Pump	17	<450	150-350	-15 ~ 60
DF-200-HV	Rated 200V-HV Pump	17	<450	200-350	-15 ~ 60
DF-245-HV	Rated 245V-HV Pump	17	<450	245-350	-15 ~ 60

## TIMER FOR SOLAR PUMP

Set the startup and shutdown time to intelligently control the operation of the solar pump. Can be matched with other factory's controllers.



### System installation drawing

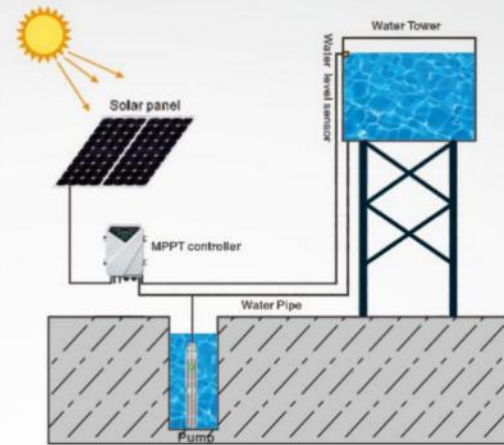


## TECHNICAL DATA

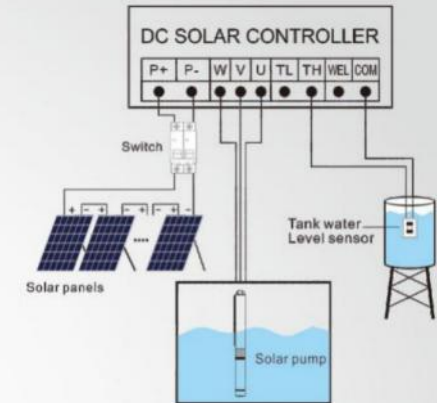
Model	Dimensions (cm)			Weight(kg)
	A	B	C	
TIMER	11	8	4.5	0.25

# DC SUBMERSIBLE PUMP

Environmental protection and energy saving



DC EXTERNAL CONTROLLER TYPE



## ADVANTAGE OF DC SOLAR PUMP

1. Permanent magnet DC brushless synchronous motor: The efficiency is increased by 15% - 20%, saving energy consumption.
2. The whole 304 stainless steel rotor shaft avoids the risk of shaft breakage.
3. Brass/Stainless steel outlet/connector/ oil cylinder, with better corrosion resistance.
4. Japanese NSK bearing, longer working life.
5. Double bearing structure at the bottom of rotor, using angular contact bearing, can withstand greater axial pressure.
6. Silicon carbide-impregnated graphite mechanical seal, long service life and reliable operation.
7. 180°C high temperature resistant copper wire, insulation class F.
8. Cold rolled 600 silicon steel sheet stator and rotor.
9. The magnet is made of 40SH NdFeb, with a temperature resistance of 150°C.
10. 304 S/S pump shaft.
11. Controller:
  - (1) Waterproof grade: IP65
  - (2) Wide open circuit voltage range
  - (3) Ambient temperature: -15°C~60°C
  - (4) MPPT function, the solar power utilization rate is higher.
  - (5) LED displays the power, voltage, current, speed etc working condition.
  - (6) It can automatically adjust the speed for operation according to the sunlight power, and can also manually adjust the speed for operation according to the actual demand.
  - (7) Automatic startup and shutdown, without personnel on duty.
  - (8) Soft start: No impulse current, protect the pump motor.
  - (9) Over-voltage/undervoltage/over-current/phase loss/short circuit/water shortage/high temperature protection etc.
12. 2 years warranty.

# 2DPC

2" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Brass outlet



Brass connecting fitting



Brass oil cylinder



Plastic Impeller



NSK Bearing

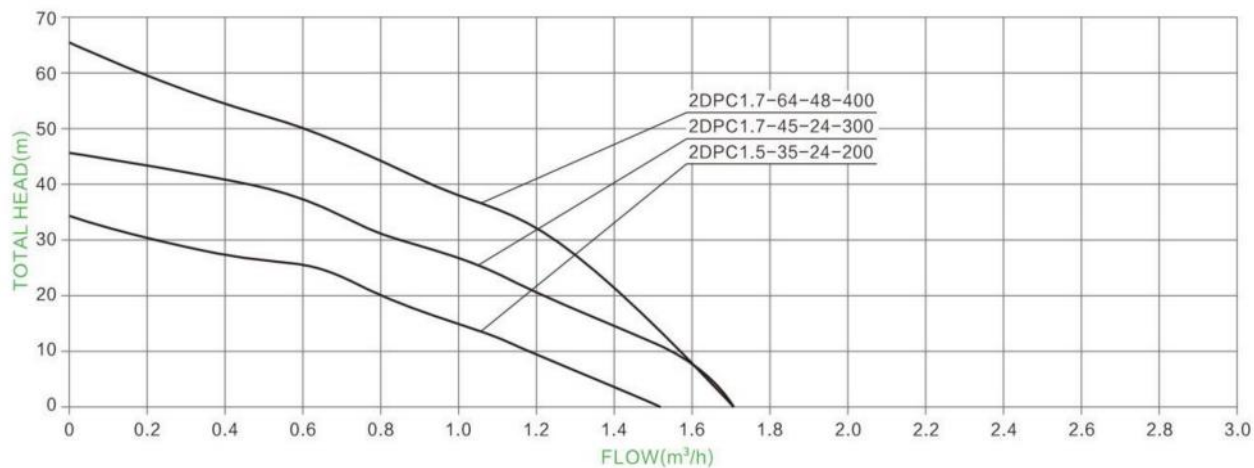


DC controller

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
2DPC1.5-35-24-200	24V	30V-48V	200W	1.5m <sup>3</sup> /h	35m	0.75"	2m	<60V	≥1.3*PUMP POWER
2DPC1.7-45-24-300	24V	30V-48V	300W	1.7m <sup>3</sup> /h	45m	0.75"	2m	<60V	≥1.3*PUMP POWER
2DPC1.7-64-48-400	48V	60V-90V	400W	1.7m <sup>3</sup> /h	64m	0.75"	2m	<120V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 2DSS/3DSS/4DSS

2"/3"/4"DC BRUSHLESS SCREW SOLAR PUMP



Screw



NSK Bearing



Stainless steel oil cylinder

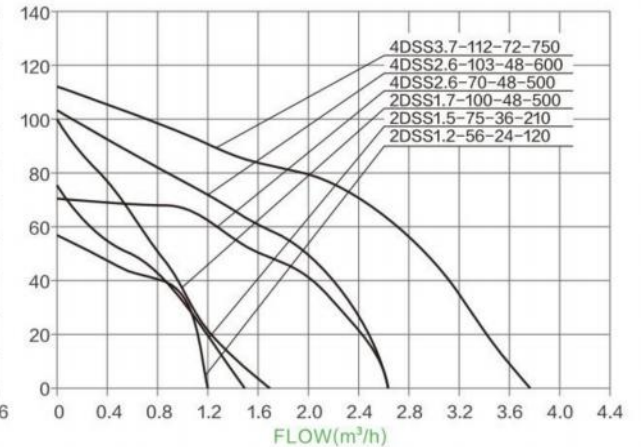
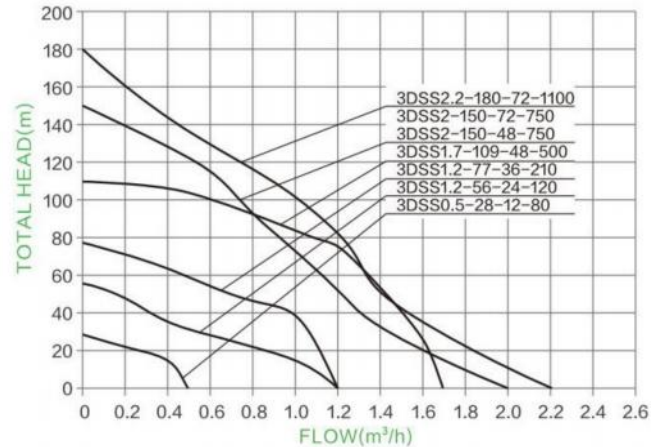


DC controller

## TECHNICAL DATA

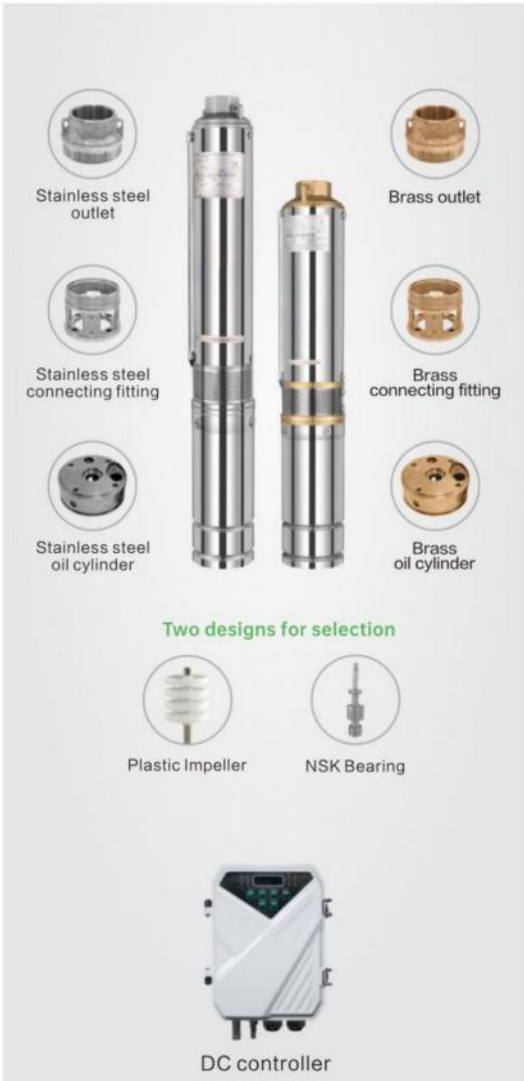
ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
2DSS1.2-56-24-120	24V	30V-48V	120W	1.2m³/h	56m	0.5"	2m	< 60V	≥1.3*PUMP POWER
2DSS1.5-75-36-210	36V	30V-48V	210W	1.5m³/h	75m	0.5"	2m	< 60V	≥1.3*PUMP POWER
2DSS1.7-100-48-500	48V	60V-90V	500W	1.7m³/h	100m	0.5"	2m	< 120V	≥1.3*PUMP POWER
3DSS0.5-28-12-80	12V	30V-48V	80W	0.5m³/h	28m	0.75"	2m	< 60V	≥1.3*PUMP POWER
3DSS1.2-56-24-120	24V	30V-48V	120W	1.2m³/h	56m	0.75"	2m	< 60V	≥1.3*PUMP POWER
3DSS1.2-77-36-210	36V	30V-48V	210W	1.2m³/h	77m	0.75"	2m	< 60V	≥1.3*PUMP POWER
3DSS1.7-109-48-500	48V	60V-90V	500W	1.7m³/h	109m	0.75"	2m	< 120V	≥1.3*PUMP POWER
3DSS2-150-48-750	48V	60V-90V	750W	2m³/h	150m	0.75"	2m	< 120V	≥1.3*PUMP POWER
3DSS2-150-72-750	72V	90V-120V	750W	2m³/h	150m	0.75"	2m	< 170V	≥1.3*PUMP POWER
3DSS2.2-180-72-1100	72V	90V-120V	1100W	2.2m³/h	180m	0.75"	2m	< 170V	≥1.3*PUMP POWER
4DSS2.6-70-48-500	48V	60V-90V	500W	2.6m³/h	70m	1"	2m	< 120V	≥1.3*PUMP POWER
4DSS2.6-103-48-600	48V	60V-90V	600W	2.6m³/h	103m	1"	2m	< 120V	≥1.3*PUMP POWER
4DSS3.7-112-72-750	72V	90V-120V	750W	3.7m³/h	112m	1"	2m	< 170V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 3DPC

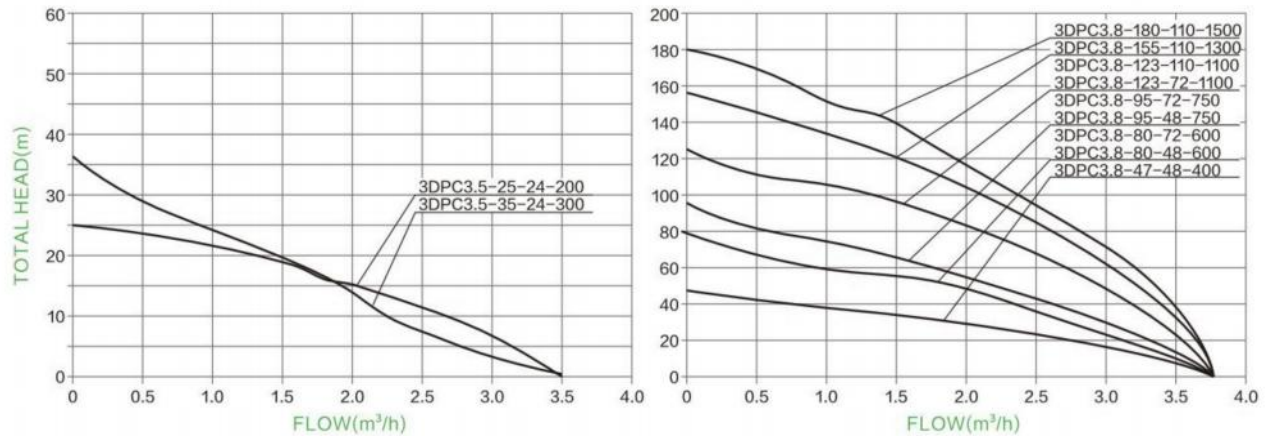
3" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



## TECHNICAL DATA

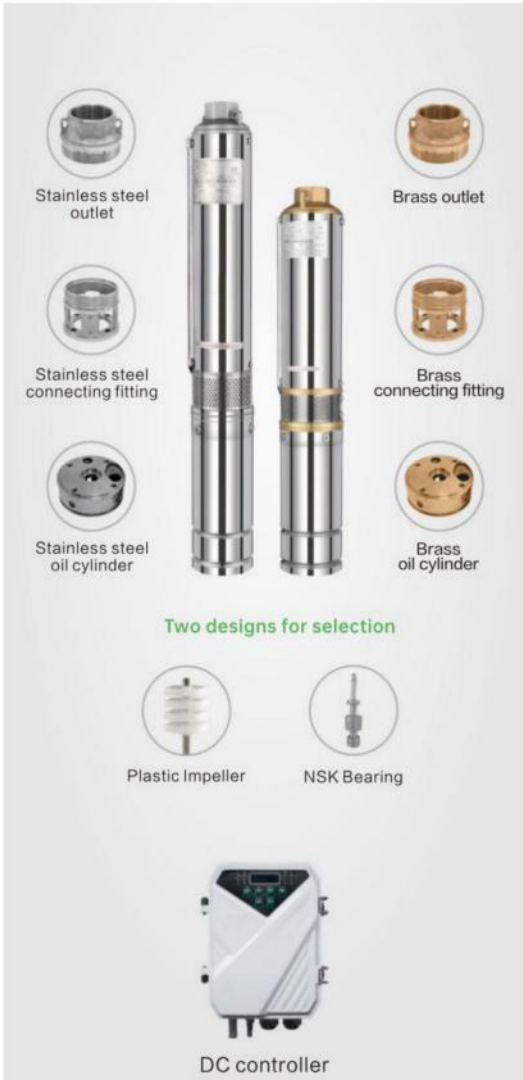
ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DPC3.5-25-24-200	24V	30V-48V	200W	3.5m <sup>3</sup> /h	25m	1.25"	2m	<60V	≥1.3*PUMP POWER
3DPC3.5-35-24-300	24V	30V-48V	300W	3.5m <sup>3</sup> /h	35m	1.25"	2m	<60V	≥1.3*PUMP POWER
3DPC3.8-47-48-400	48V	60V-90V	400W	3.8m <sup>3</sup> /h	47m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DPC3.8-80-48-600	48V	60V-90V	600W	3.8m <sup>3</sup> /h	80m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DPC3.8-80-72-600	72V	90V-120V	600W	3.8m <sup>3</sup> /h	80m	1.25"	2m	<170V	≥1.3*PUMP POWER
3DPC3.8-95-48-750	48V	60V-90V	750W	3.8m <sup>3</sup> /h	95m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DPC3.8-95-72-750	72V	90V-120V	750W	3.8m <sup>3</sup> /h	95m	1.25"	2m	<170V	≥1.3*PUMP POWER
3DPC3.8-123-72-1100	72V	90V-120V	1100W	3.8m <sup>3</sup> /h	123m	1.25"	2m	<170V	≥1.3*PUMP POWER
3DPC3.8-123-110-1100	110V	110V-150V	1100W	3.8m <sup>3</sup> /h	123m	1.25"	2m	<220V	≥1.3*PUMP POWER
3DPC3.8-155-110-1300	110V	110V-150V	1300W	3.8m <sup>3</sup> /h	155m	1.25"	2m	<220V	≥1.3*PUMP POWER
3DPC3.8-180-110-1500	110V	110V-150V	1500W	3.8m <sup>3</sup> /h	180m	1.25"	2m	<220V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 3DPC

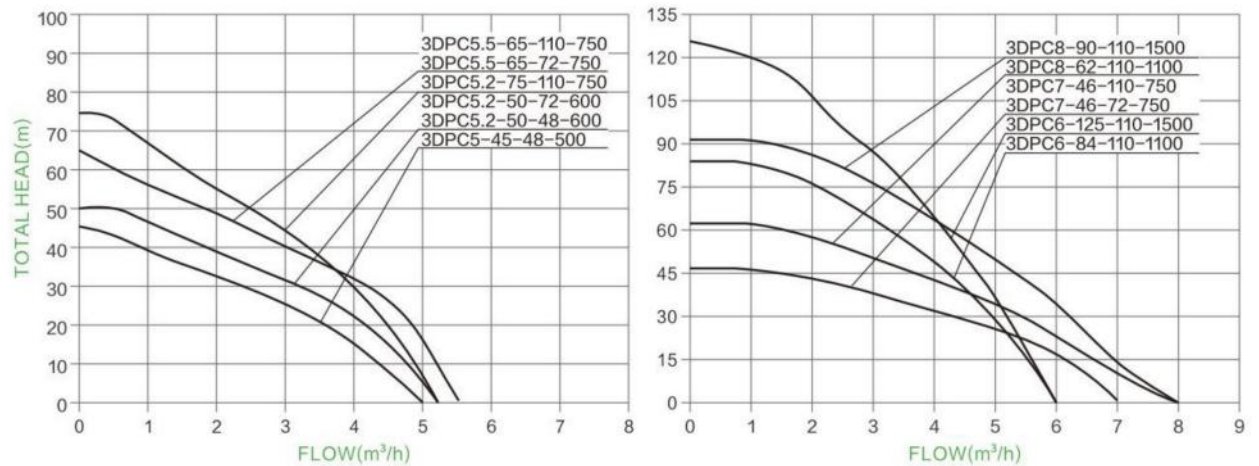
3" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DPC5-45-48-500	48V	60V-90V	500W	5m <sup>3</sup> /h	45m	1.5"	2m	<120V	≥1.3*PUMP POWER
3DPC5.2-50-48-600	48V	60V-90V	600W	5.2m <sup>3</sup> /h	50m	1.5"	2m	<120V	≥1.3*PUMP POWER
3DPC5.2-50-72-600	72V	90V-120V	600W	5.2m <sup>3</sup> /h	50m	1.5"	2m	<170V	≥1.3*PUMP POWER
3DPC5.2-75-110-750	110V	110V-150V	750W	5.2m <sup>3</sup> /h	75m	1.5"	2m	<220V	≥1.3*PUMP POWER
3DPC5.5-65-72-750	72V	90V-120V	750W	5.5m <sup>3</sup> /h	65m	1.5"	2m	<170V	≥1.3*PUMP POWER
3DPC5.5-65-110-750	110V	110V-150V	750W	5.5m <sup>3</sup> /h	65m	1.5"	2m	<220V	≥1.3*PUMP POWER
3DPC6-84-110-1100	110V	110V-150V	1100W	6m <sup>3</sup> /h	84m	1.5"	2m	<220V	≥1.3*PUMP POWER
3DPC6-125-110-1500	110V	110V-150V	1500W	6m <sup>3</sup> /h	125m	1.5"	2m	<220V	≥1.3*PUMP POWER
3DPC7-46-72-750	72V	90V-120V	750W	7m <sup>3</sup> /h	46m	1.5"	2m	<170V	≥1.3*PUMP POWER
3DPC7-46-110-750	110V	110V-150V	750W	7m <sup>3</sup> /h	46m	1.5"	2m	<220V	≥1.3*PUMP POWER
3DPC8-62-110-1100	110V	110V-150V	1100W	8m <sup>3</sup> /h	62m	1.5"	2m	<220V	≥1.3*PUMP POWER
3DPC8-90-110-1500	110V	110V-150V	1500W	8m <sup>3</sup> /h	90m	1.5"	2m	<220V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 3DSC

3" DC BRUSHLESS SOLAR PUMP WITH S/SIMPELLER



Stainless steel Impeller



Stainless steel oil cylinder



NSK Bearing

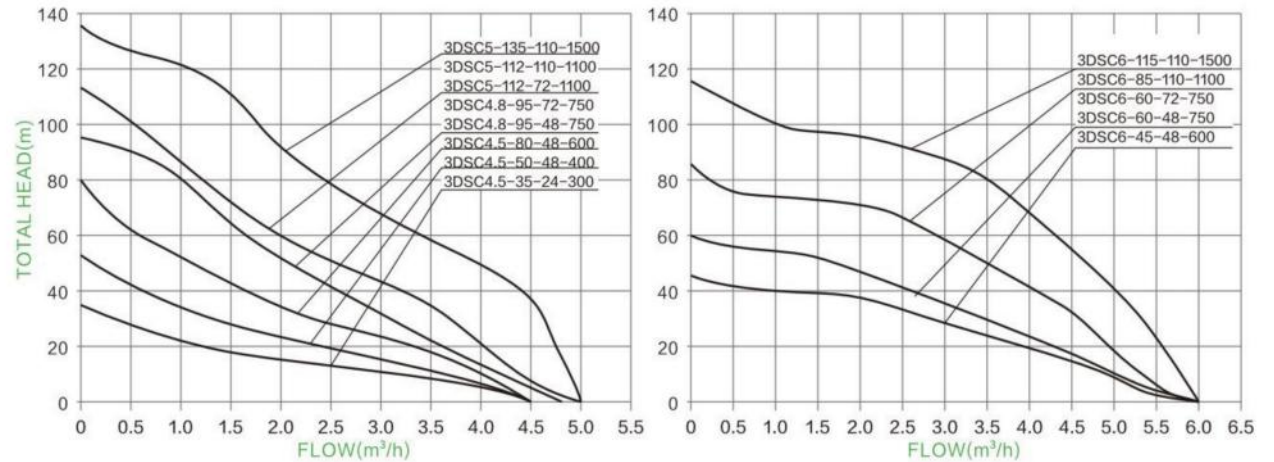


DC controller

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DSC4.5-35-24-300	24V	30V-48V	300W	4.5m <sup>3</sup> /h	35m	1.25"	2m	<60V	≥1.3*PUMP POWER
3DSC4.5-50-48-400	48V	60V-90V	400W	4.5m <sup>3</sup> /h	50m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DSC4.5-80-48-600	48V	60V-90V	600W	4.5m <sup>3</sup> /h	80m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DSC4.8-95-48-750	48V	60V-90V	750W	4.8m <sup>3</sup> /h	95m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DSC4.8-95-72-750	72V	90V-120V	750W	4.8m <sup>3</sup> /h	95m	1.25"	2m	<170V	≥1.3*PUMP POWER
3DSC5-112-72-1100	72V	90V-120V	1100W	5m <sup>3</sup> /h	112m	1.25"	2m	<170V	≥1.3*PUMP POWER
3DSC5-112-110-1100	110V	110V-150V	1100W	5m <sup>3</sup> /h	112m	1.25"	2m	<220V	≥1.3*PUMP POWER
3DSC5-135-110-1500	110V	110V-150V	1500W	5m <sup>3</sup> /h	135m	1.25"	2m	<220V	≥1.3*PUMP POWER
3DSC6-45-48-600	48V	60V-90V	600W	6m <sup>3</sup> /h	45m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DSC6-60-48-750	48V	60V-90V	750W	6m <sup>3</sup> /h	60m	1.25"	2m	<120V	≥1.3*PUMP POWER
3DSC6-60-72-750	72V	90V-120V	750W	6m <sup>3</sup> /h	60m	1.25"	2m	<170V	≥1.3*PUMP POWER
3DSC6-85-110-1100	110V	110V-150V	1100W	6m <sup>3</sup> /h	85m	1.25"	2m	<220V	≥1.3*PUMP POWER
3DSC6-115-110-1500	110V	110V-150V	1500W	6m <sup>3</sup> /h	115m	1.25"	2m	<220V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DPC

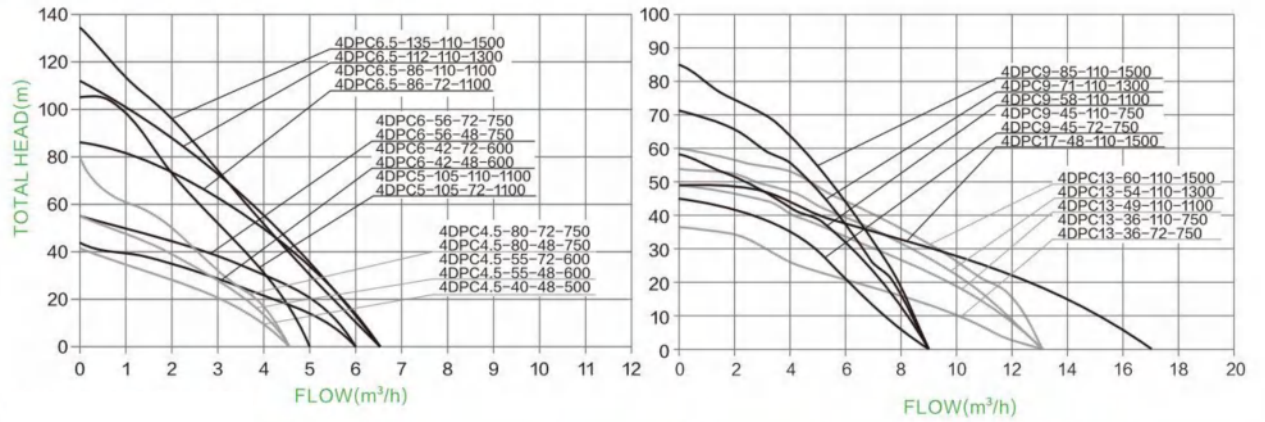
4" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC4.5-40-48-500	48V	60V-90V	500W	4.5m³/h	40m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DPC4.5-55-48-600	48V	60V-90V	600W	4.5m³/h	55m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DPC4.5-55-72-600	72V	90V-120V	600W	4.5m³/h	55m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DPC4.5-80-48-750	48V	60V-90V	750W	4.5m³/h	80m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DPC4.5-80-72-750	72V	90V-120V	750W	4.5m³/h	80m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DPC5-105-72-1100	72V	90V-120V	1100W	5m³/h	105m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DPC5-105-110-1100	110V	110V-150V	1100W	5m³/h	105m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DPC6-42-48-600	48V	60V-90V	600W	6m³/h	42m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DPC6-42-72-600	72V	90V-120V	600W	6m³/h	42m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DPC6-56-48-750	48V	60V-90V	750W	6m³/h	56m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DPC6-56-72-750	72V	90V-120V	750W	6m³/h	56m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DPC6.5-86-72-1100	72V	90V-120V	1100W	6.5m³/h	86m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DPC6.5-86-110-1100	110V	110V-150V	1100W	6.5m³/h	86m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DPC6.5-112-110-1300	110V	110V-150V	1300W	6.5m³/h	112m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DPC6.5-135-110-1500	110V	110V-150V	1500W	6.5m³/h	135m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DPC9-45-72-750	72V	90V-120V	750W	9m³/h	45m	2"	2m	<170V	≥1.3*PUMP POWER
4DPC9-45-110-750	110V	110V-150V	750W	9m³/h	45m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC9-58-110-1100	110V	110V-150V	1100W	9m³/h	58m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC9-71-110-1300	110V	110V-150V	1300W	9m³/h	71m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC9-85-110-1500	110V	110V-150V	1500W	9m³/h	85m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC13-36-72-750	72V	90V-120V	750W	13m³/h	36m	2"	2m	<170V	≥1.3*PUMP POWER
4DPC13-36-110-750	110V	110V-150V	750W	13m³/h	36m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC13-49-110-1100	110V	110V-150V	1100W	13m³/h	49m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC13-54-110-1300	110V	110V-150V	1300W	13m³/h	54m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC13-60-110-1500	110V	110V-150V	1500W	13m³/h	60m	2"	2m	<220V	≥1.3*PUMP POWER
4DPC17-48-110-1500	110V	110V-150V	1500W	17m³/h	48m	2"	2m	<220V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DLR

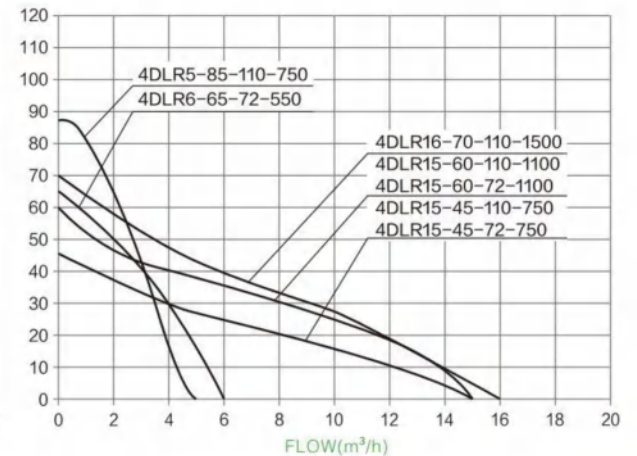
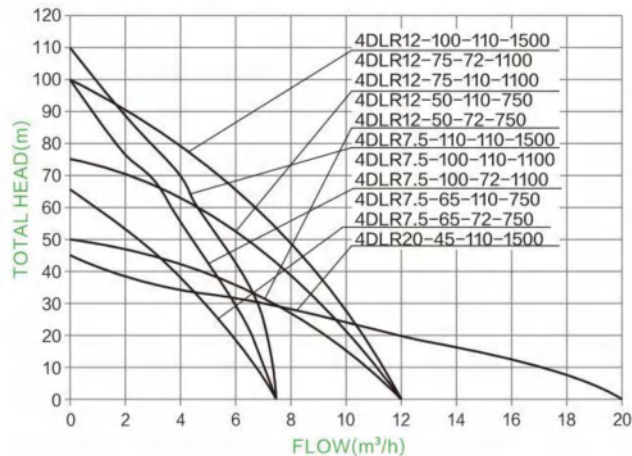
4" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DLR5-85-110-750	110V	110V-150V	750W	5m <sup>3</sup> /h	85m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DLR6-65-72-550	72V	90V-120V	550W	6m <sup>3</sup> /h	65m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DLR7.5-65-72-750	72V	90V-120V	750W	7.5m <sup>3</sup> /h	65m	2"	2m	<170V	≥1.3*PUMP POWER
4DLR7.5-65-110-750	110V	110V-150V	750W	7.5m <sup>3</sup> /h	65m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR7.5-100-72-1100	72V	90V-120V	1100W	7.5m <sup>3</sup> /h	100m	2"	2m	<170V	≥1.3*PUMP POWER
4DLR7.5-100-110-1100	110V	110V-150V	1100W	7.5m <sup>3</sup> /h	100m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR7.5-110-110-1500	110V	110V-150V	1500W	7.5m <sup>3</sup> /h	110m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR12-50-72-750	72V	90V-120V	750W	12m <sup>3</sup> /h	50m	2"	2m	<170V	≥1.3*PUMP POWER
4DLR12-50-110-750	110V	110V-150V	750W	12m <sup>3</sup> /h	50m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR12-75-72-1100	72V	90V-120V	1100W	12m <sup>3</sup> /h	75m	2"	2m	<170V	≥1.3*PUMP POWER
4DLR12-75-110-1100	110V	110V-150V	1100W	12m <sup>3</sup> /h	75m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR12-100-110-1500	110V	110V-150V	1500W	12m <sup>3</sup> /h	100m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR15-45-72-750	72V	90V-120V	750W	15m <sup>3</sup> /h	45m	2"	2m	<170V	≥1.3*PUMP POWER
4DLR15-45-110-750	110V	110V-150V	750W	15m <sup>3</sup> /h	45m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR15-60-72-1100	72V	90V-120V	1100W	15m <sup>3</sup> /h	60m	2"	2m	<170V	≥1.3*PUMP POWER
4DLR15-60-110-1100	110V	110V-150V	1100W	15m <sup>3</sup> /h	60m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR16-70-110-1500	110V	110V-150V	1500W	16m <sup>3</sup> /h	70m	2"	2m	<220V	≥1.3*PUMP POWER
4DLR20-45-110-1500	110V	110V-150V	1500W	20m <sup>3</sup> /h	45m	2"	2m	<220V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC

4"DC BRUSHLESS SOLAR PUMP WITH S/S IMPELLER

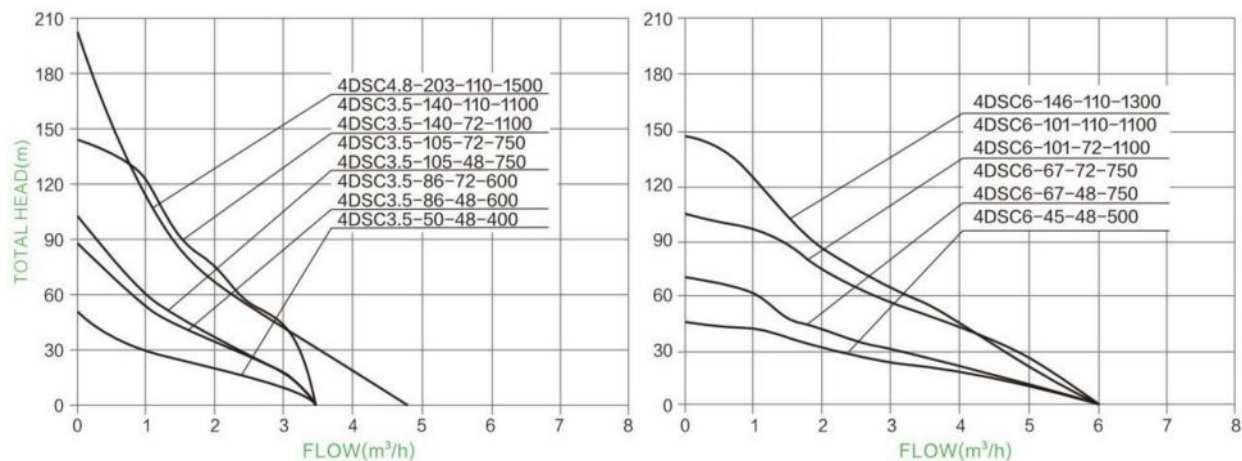


DC controller

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC3.5-50-48-400	48V	60V-90V	400W	3.5m <sup>3</sup> /h	50m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DSC3.5-86-48-600	48V	60V-90V	600W	3.5m <sup>3</sup> /h	86m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DSC3.5-86-72-600	72V	90V-120V	600W	3.5m <sup>3</sup> /h	86m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DSC3.5-105-48-750	48V	60V-90V	750W	3.5m <sup>3</sup> /h	105m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DSC3.5-105-72-750	72V	90V-120V	750W	3.5m <sup>3</sup> /h	105m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DSC3.5-140-72-1100	72V	90V-120V	1100W	3.5m <sup>3</sup> /h	140m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DSC3.5-140-110-1100	110V	110V-150V	1100W	3.5m <sup>3</sup> /h	140m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DSC4.8-203-110-1500	110V	110V-150V	1500W	4.8m <sup>3</sup> /h	203m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DSC6-45-48-500	48V	60V-90V	500W	6m <sup>3</sup> /h	45m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DSC6-67-48-750	48V	60V-90V	750W	6m <sup>3</sup> /h	67m	1.25"	2m	<120V	≥1.3*PUMP POWER
4DSC6-67-72-750	72V	90V-120V	750W	6m <sup>3</sup> /h	67m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DSC6-101-72-1100	72V	90V-120V	1100W	6m <sup>3</sup> /h	101m	1.25"	2m	<170V	≥1.3*PUMP POWER
4DSC6-101-110-1100	110V	110V-150V	1100W	6m <sup>3</sup> /h	101m	1.25"	2m	<220V	≥1.3*PUMP POWER
4DSC6-146-110-1300	110V	110V-150V	1300W	6m <sup>3</sup> /h	146m	1.25"	2m	<220V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC/ 4/6DSC

4" (4/6") DC BRUSHLESS SOLAR PUMP WITH S/SIMPELLER



Stainless steel Impeller



Stainless steel oil cylinder



NSK Bearing

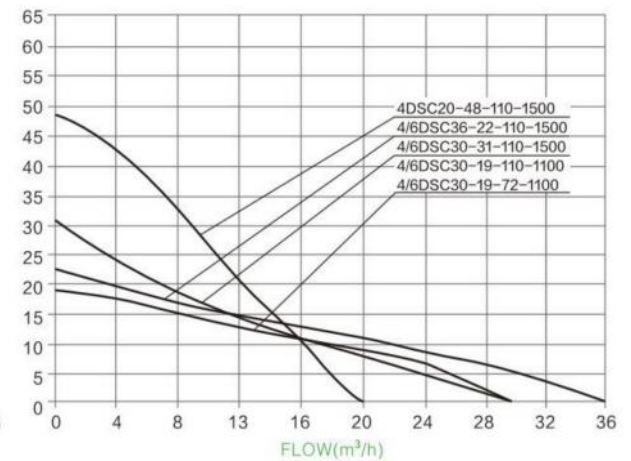
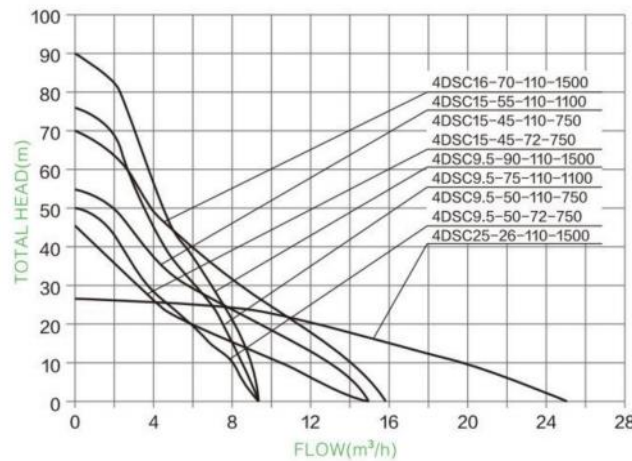


DC controller

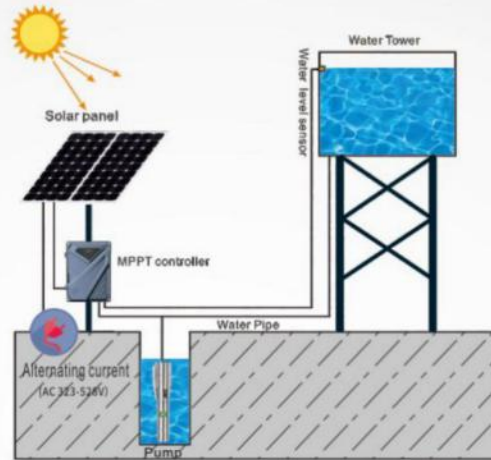
## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC9.5-50-72-750	72V	90V-120V	750W	9.5m³/h	50m	2"	2m	<170V	≥1.3*PUMP POWER
4DSC9.5-50-110-750	110V	110V-150V	750W	9.5m³/h	50m	2"	2m	<220V	≥1.3*PUMP POWER
4DSC9.5-75-110-1100	110V	110V-150V	1100W	9.5m³/h	75m	2"	2m	<220V	≥1.3*PUMP POWER
4DSC9.5-90-110-1500	110V	110V-150V	1500W	9.5m³/h	90m	2"	2m	<220V	≥1.3*PUMP POWER
4DSC15-45-72-750	72V	90V-120V	750W	15m³/h	45m	2"	2m	<170V	≥1.3*PUMP POWER
4DSC15-45-110-750	110V	110V-150V	750W	15m³/h	45m	2"	2m	<220V	≥1.3*PUMP POWER
4DSC15-55-110-1100	110V	110V-150V	1100W	15m³/h	55m	2"	2m	<220V	≥1.3*PUMP POWER
4DSC16-70-110-1500	110V	110V-150V	1500W	16m³/h	70m	2"	2m	<220V	≥1.3*PUMP POWER
4DSC20-48-110-1500	110V	110V-150V	1500W	20m³/h	48m	2"	2m	<220V	≥1.3*PUMP POWER
4DSC25-26-110-1500	110V	110V-150V	1500W	25m³/h	26m	2"	2m	<220V	≥1.3*PUMP POWER
4/6DSC30-19-72-1100	72V	90V-120V	1100W	30m³/h	19m	3"	2m	<170V	≥1.3*PUMP POWER
4/6DSC30-19-110-1100	110V	110V-150V	1100W	30m³/h	19m	3"	2m	<220V	≥1.3*PUMP POWER
4/6DSC30-31-110-1500	110V	110V-150V	1500W	30m³/h	31m	3"	2m	<220V	≥1.3*PUMP POWER
4/6DSC36-22-110-1500	110V	110V-150V	1500W	36m³/h	22m	3"	2m	<220V	≥1.3*PUMP POWER

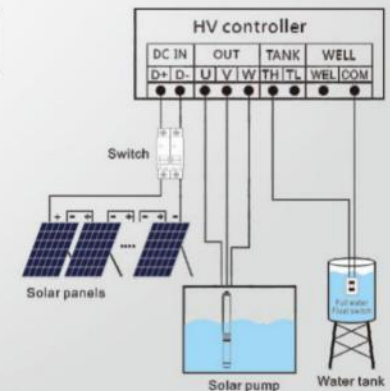
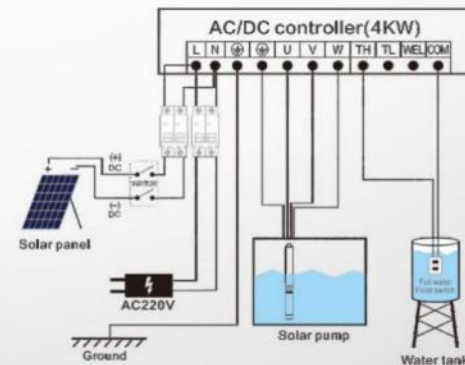
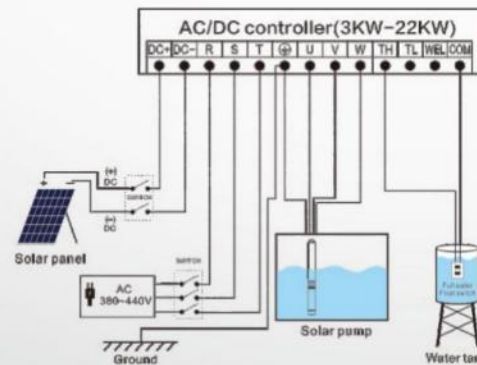
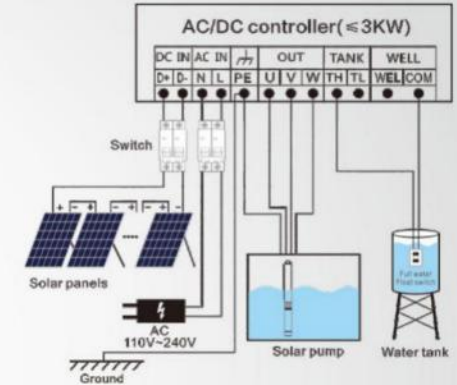
## HYDRAULIC PERFORMANCE CURVES



# AC/DC HYBRID & WIDE VOLTAGE SUBMERSIBLE PUMP



AC/DC EXTERNAL CONTROLLER TYPE



# 3DPC-A/D 3DPC-HV

3" AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Stainless steel outlet

Brass outlet

Stainless steel connecting fitting

Brass connecting fitting

Stainless steel oil cylinder

Brass oil cylinder

Two designs for selection



Plastic Impeller



NSK Bearing



AC/DC auto-switching controller (≤2.2KW)

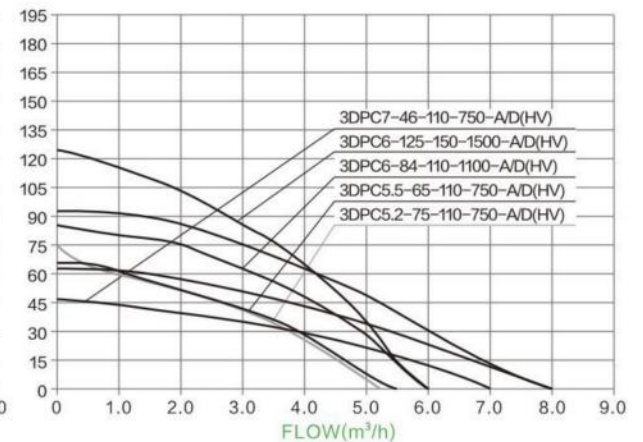
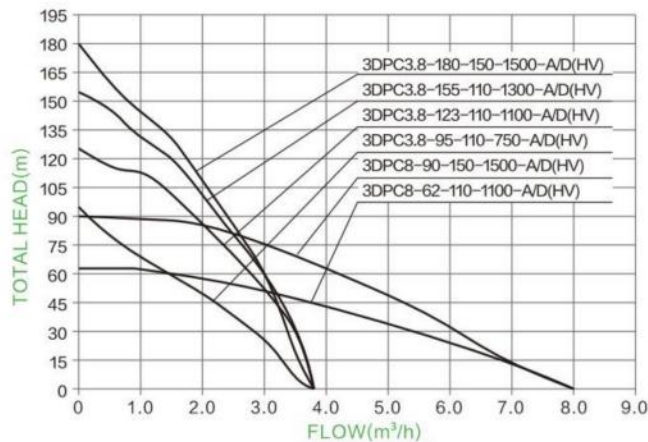


Wide Voltage HV Controller (≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DPC3.8-95-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	3.8m³/h	95m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DPC3.8-123-110-1100-A/D(HV)	85V-280V(I)	110-350V	1100W	3.8m³/h	123m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DPC3.8-155-110-1300-A/D(HV)	85V-280V(I)	110-350V	1300W	3.8m³/h	155m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DPC3.8-180-150-1500-A/D(HV)	85V-280V(I)	150-350V	1500W	3.8m³/h	180m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DPC5.2-75-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	5.2m³/h	75m	1.5"	2m	<450V	≥1.3*PUMP POWER
3DPC5.5-65-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	5.5m³/h	65m	1.5"	2m	<450V	≥1.3*PUMP POWER
3DPC6-84-110-1100-A/D(HV)	85V-280V(I)	110-350V	1100W	6m³/h	84m	1.5"	2m	<450V	≥1.3*PUMP POWER
3DPC6-125-150-1500-A/D(HV)	85V-280V(I)	150-350V	1500W	6m³/h	125m	1.5"	2m	<450V	≥1.3*PUMP POWER
3DPC7-46-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	7m³/h	46m	1.5"	2m	<450V	≥1.3*PUMP POWER
3DPC8-62-110-1100-A/D(HV)	85V-280V(I)	110-350V	1100W	8m³/h	62m	1.5"	2m	<450V	≥1.3*PUMP POWER
3DPC8-90-150-1500-A/D(HV)	85V-280V(I)	150-350V	1500W	8m³/h	90m	1.5"	2m	<450V	≥1.3*PUMP POWER

## PERFORMANCE CURVES



# 3DSS-A/D

3" AC/DC BRUSHLESS SCREW SOLAR PUMP

# 3DSC-A/D(HV)

3" AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



Screw



NSK Bearing



Stainless steel oil cylinder



Stainless steel impeller



Stainless steel oil cylinder



NSK Bearing



AC/DC auto-switching controller  
(≤2.2KW)



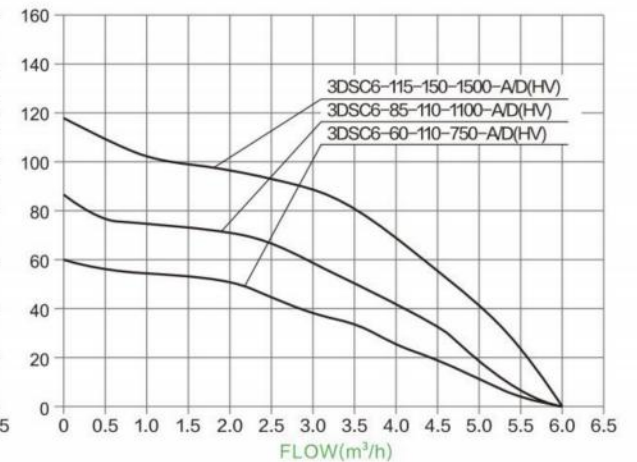
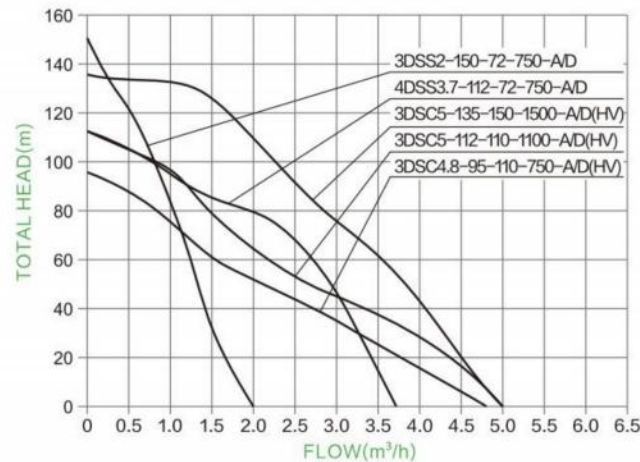
Wide Voltage HV Controller  
(≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DSS2-150-72-750-A/D	85V-280V	100V-350V	750W	2m <sup>3</sup> /h	150m	0.75"	2m	<450V	≥1.3*PUMP POWER
4DSS3.7-112-72-750-A/D	85V-280V	100V-350V	750W	2m <sup>3</sup> /h	112m	1"	2m	<450V	≥1.3*PUMP POWER

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DSC4.8-95-110-750-AD(HV)	85V-280V(I)	110V-350V	750W	4.8m <sup>3</sup> /h	95m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DSC5-112-110-1100-AD(HV)	85V-280V(I)	110V-350V	1100W	5m <sup>3</sup> /h	112m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DSC5-135-150-1500-AD(HV)	85V-280V(I)	150V-350V	1500W	5m <sup>3</sup> /h	135m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DSC6-60-110-750-AD(HV)	85V-280V(I)	110V-350V	750W	6m <sup>3</sup> /h	60m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DSC6-85-110-1100-AD(HV)	85V-280V(I)	110V-350V	1100W	6m <sup>3</sup> /h	85m	1.25"	2m	<450V	≥1.3*PUMP POWER
3DSC6-115-150-1500-AD(HV)	85V-280V(I)	150V-350V	1500W	6m <sup>3</sup> /h	115m	1.25"	2m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DPC-A/D 4DPC-HV

4"AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Two designs for selection



AC/DC auto-switching controller (≤2.2KW)

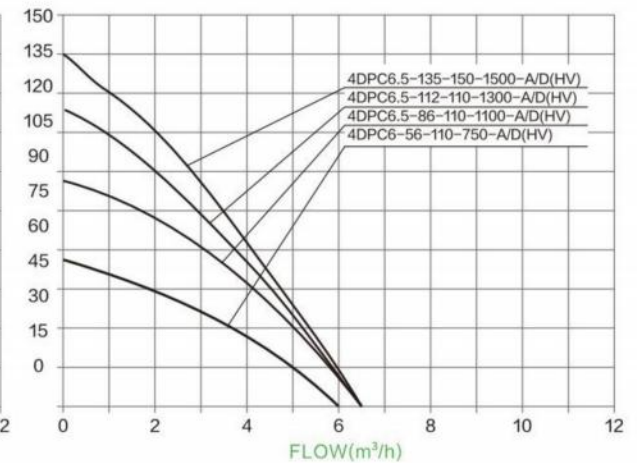
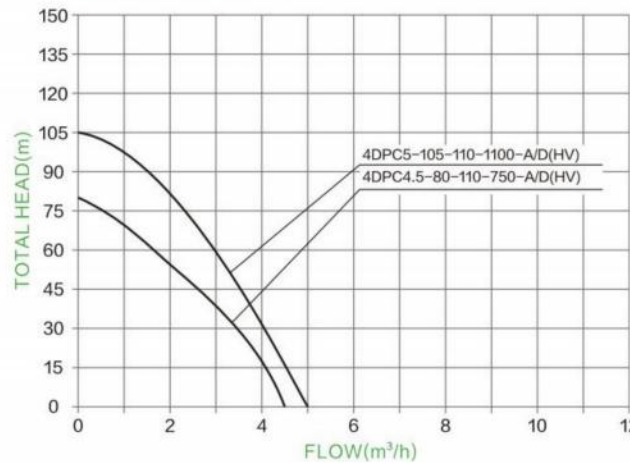


Wide Voltage HV Controller (≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC4.5-80-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	4.5m³/h	80m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DPC5-105-110-1100-A/D(HV)	85V-280V(I)	110-350V	1100W	5m³/h	105m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DPC6-56-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	6m³/h	56m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DPC6.5-86-110-1100-A/D(HV)	85V-280V(I)	110-350V	1100W	6.5m³/h	86m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DPC6.5-112-110-1300-A/D(HV)	85V-280V(I)	110-350V	1300W	6.5m³/h	112m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DPC6.5-135-150-1500-A/D(HV)	85V-280V(I)	150-350V	1500W	6.5m³/h	135m	1.25"	2m	<450V	≥1.3*PUMP POWER

## PERFORMANCE CURVES



# 4DPC-A/D 4DPC-HV

4" AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Two designs for selection



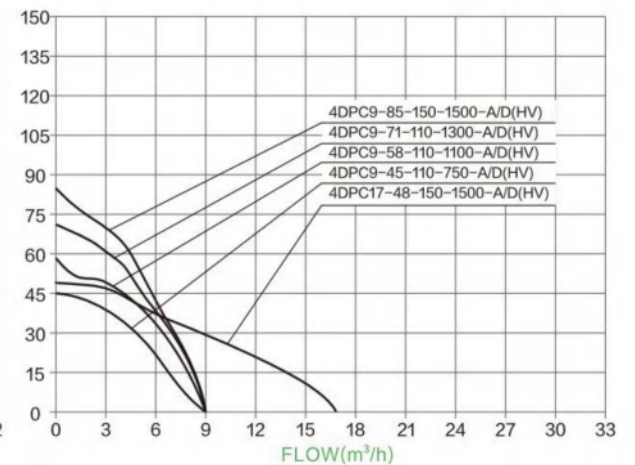
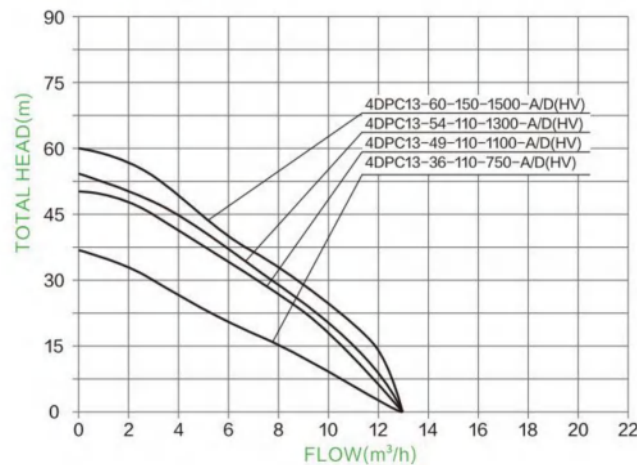
AC/DC auto-switching controller (≤2.2KW)

Wide Voltage HV Controller (≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC9-45-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	9m³/h	45m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC9-58-110-1100-A/D(HV)	85V-280V(I)	110-350V	1100W	9m³/h	58m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC9-71-110-1300-A/D(HV)	85V-280V(I)	110-350V	1300W	9m³/h	71m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC9-85-150-1500-A/D(HV)	85V-280V(I)	150-350V	1500W	9m³/h	85m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC13-36-110-750-A/D(HV)	85V-280V(I)	110-350V	750W	13m³/h	36m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC13-49-110-1100-A/D(HV)	85V-280V(I)	110-350V	1100W	13m³/h	49m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC13-54-110-1300-A/D(HV)	85V-280V(I)	110-350V	1300W	13m³/h	54m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC13-60-150-1500-A/D(HV)	85V-280V(I)	150-350V	1500W	13m³/h	60m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC17-48-150-1500-A/D(HV)	85V-280V(I)	150-350V	1500W	17m³/h	48m	2"	2m	< 450V	≥1.3*PUMP POWER

## PERFORMANCE CURVES



# 4DLR-A/D 4DLR-HV

4"AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Stainless steel outlet

Brass outlet



Stainless steel connecting fitting

Brass connecting fitting



Stainless steel oil cylinder

Brass oil cylinder

Two designs for selection



Plastic Impeller



NSK Bearing



AC/DC auto-switching controller  
(≤2.2KW)

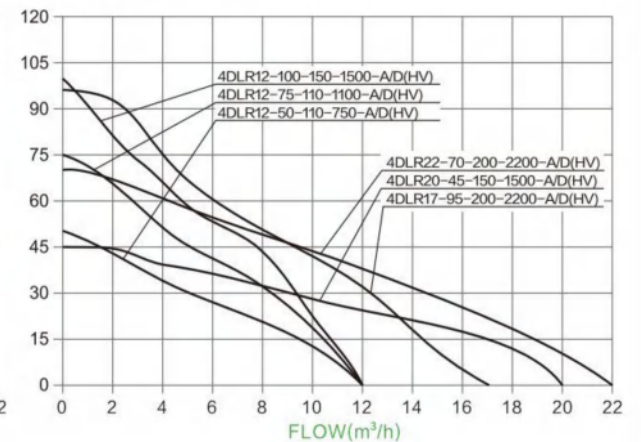
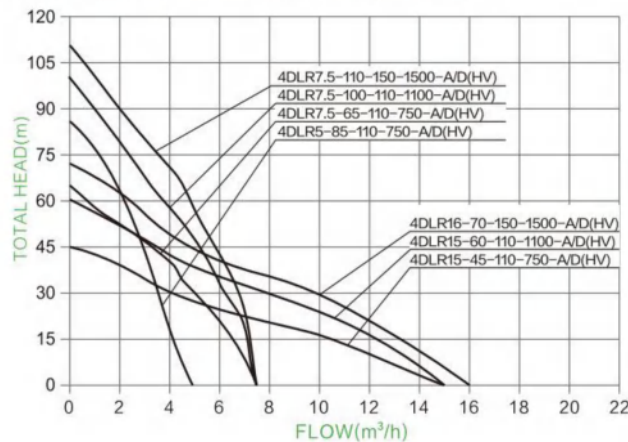


Wide Voltage HV Controller  
(≤2.2KW)

## TECHNICAL DATA

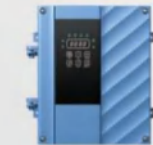
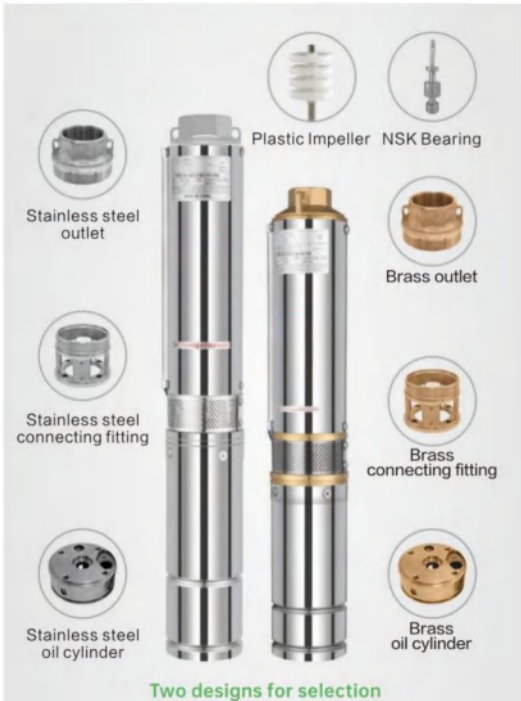
ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DLR5-85-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	5m <sup>3</sup> /h	85m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DLR7.5-65-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	7.5m <sup>3</sup> /h	65m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR7.5-100-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	7.5m <sup>3</sup> /h	100m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR7.5-110-150-1500-A/D(HV)	85V-280V(I)	150V-350V	1500W	7.5m <sup>3</sup> /h	110m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR12-50-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	12m <sup>3</sup> /h	50m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR12-75-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	12m <sup>3</sup> /h	75m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR12-100-150-1500-A/D(HV)	85V-280V(I)	150V-350V	1500W	12m <sup>3</sup> /h	100m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR15-45-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	15m <sup>3</sup> /h	45m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR15-60-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	15m <sup>3</sup> /h	60m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR16-70-150-1500-A/D(HV)	85V-280V(I)	150V-350V	1500W	16m <sup>3</sup> /h	70m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR17-95-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	17m <sup>3</sup> /h	95m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR20-45-150-1500-A/D(HV)	85V-280V(I)	150V-350V	1500W	20m <sup>3</sup> /h	45m	2"	2m	<450V	≥1.3*PUMP POWER
4DLR22-70-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	22m <sup>3</sup> /h	70m	2"	2m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DPC-A/D 4DPC-HV

4"AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



AC/DC auto-switching controller (≤2.2KW)



Wide Voltage HV Controller (≈2.2KW)



Wide voltage HV controller (3KW)



AC/DC auto-switching controller (3KW)

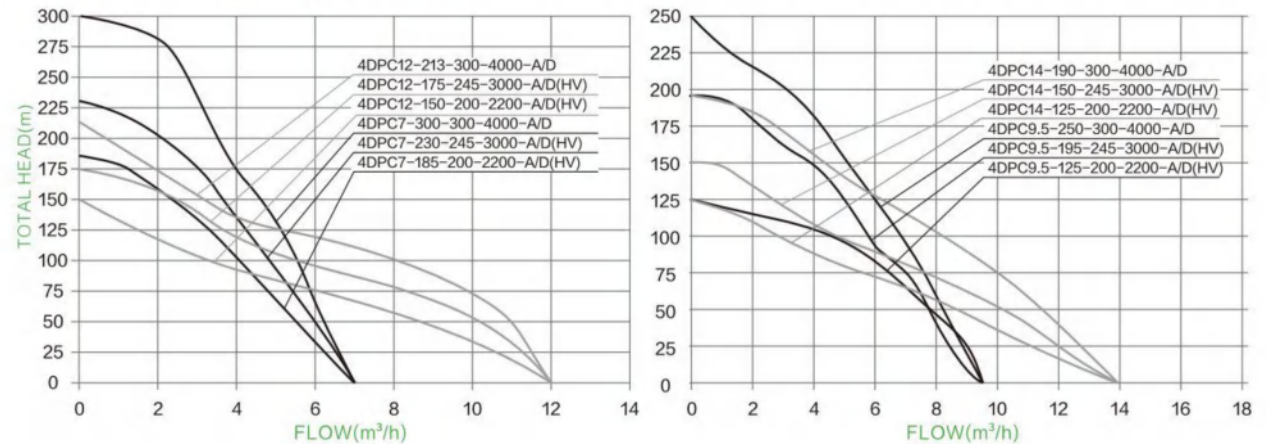


AC/DC controller (4KW)

## TECHNICAL DATA

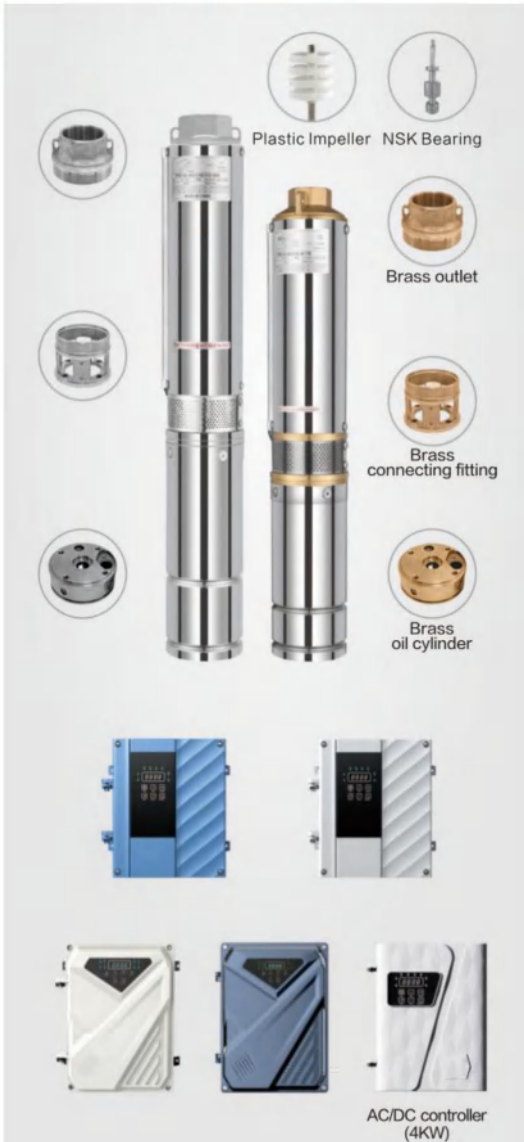
ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC7-185-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	7m³/h	185m	1.25"	2m	< 450V	≥1.3*PUMP POWER
4DPC7-230-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	7m³/h	230m	1.25"	2m	< 450V	≥1.3*PUMP POWER
4DPC7-300-300-4000-A/D	120V-280V	300V-350V	4000W	7m³/h	300m	1.25"	2m	< 450V	≥1.3*PUMP POWER
4DPC9.5-125-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	9.5m³/h	125m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC9.5-195-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	9.5m³/h	195m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC9.5-250-300-4000-A/D	120V-280V	300V-350V	4000W	9.5m³/h	250m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC12-150-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	12m³/h	150m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC12-175-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	12m³/h	175m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC12-213-300-4000-A/D	120V-280V	300V-350V	4000W	12m³/h	213m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC14-125-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	14m³/h	125m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC14-150-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	14m³/h	150m	2"	2m	< 450V	≥1.3*PUMP POWER
4DPC14-190-300-4000-A/D	120V-280V	300V-350V	4000W	14m³/h	190m	2"	2m	< 450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DPC-A/D 4DPC-HV

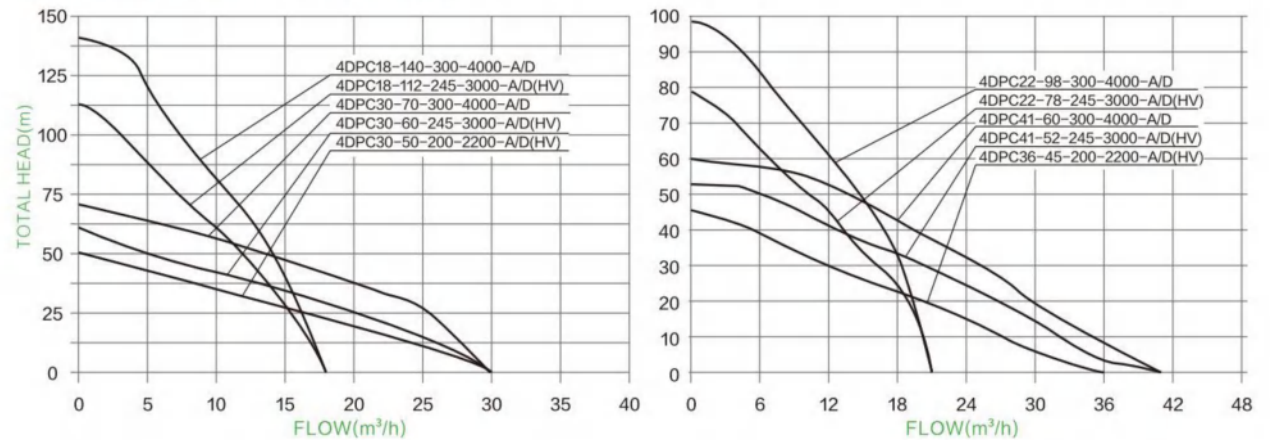
4" AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage (VOC)	Power
4DPC18-112-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	18m <sup>3</sup> /h	112m	2"	2m	<450V	≥1.3*PUMP POWER
4DPC18-140-300-4000-A/D	120V-280V	300V-350V	4000W	18m <sup>3</sup> /h	140m	2"	2m	<450V	≥1.3*PUMP POWER
4DPC22-78-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	22m <sup>3</sup> /h	78m	2"	2m	<450V	≥1.3*PUMP POWER
4DPC22-98-300-4000-A/D	120V-280V	300V-350V	4000W	22m <sup>3</sup> /h	98m	2"	2m	<450V	≥1.3*PUMP POWER
4DPC30-50-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	30m <sup>3</sup> /h	50m	2"	2m	<450V	≥1.3*PUMP POWER
4DPC30-60-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	30m <sup>3</sup> /h	60m	2"	2m	<450V	≥1.3*PUMP POWER
4DPC30-70-300-4000-A/D	120V-280V	300V-350V	4000W	30m <sup>3</sup> /h	70m	2"	2m	<450V	≥1.3*PUMP POWER
4DPC36-45-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	36m <sup>3</sup> /h	45m	3"	2m	<450V	≥1.3*PUMP POWER
4DPC41-52-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	41m <sup>3</sup> /h	52m	3"	2m	<450V	≥1.3*PUMP POWER
4DPC41-60-300-4000-A/D	120V-280V	300V-350V	4000W	41m <sup>3</sup> /h	60m	3"	2m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC-A/D(HV) 4/6DSC-A/D(HV)

4"(4/6")AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH S/SIMPELLER



Stainless steel Impeller



Stainless steel oil cylinder



NSK Bearing



AC/DC auto-switching controller  
(≤2.2KW)

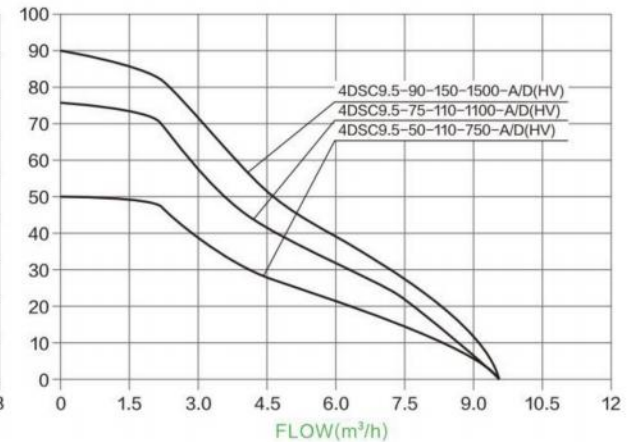
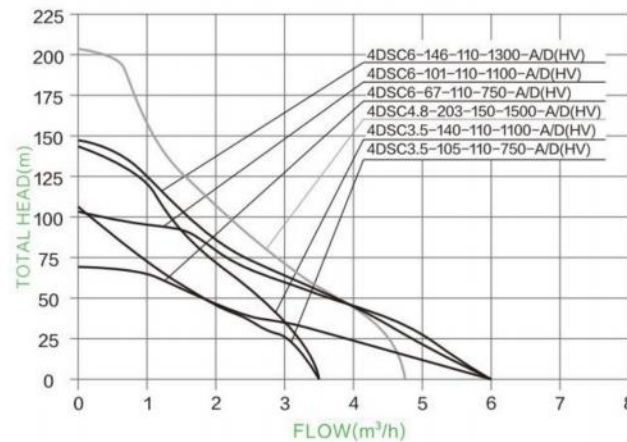


Wide Voltage HV Controller  
(≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC3.5-105-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	3.5m <sup>3</sup> /h	105m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC3.5-140-110-1100-A/D(HV)	85V-280V(I)	110V-350V	750W	3.5m <sup>3</sup> /h	140m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC4.8-203-150-1500-A/D(HV)	85V-280V(I)	150V-350V	1500W	4.8m <sup>3</sup> /h	203m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC6-67-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	6m <sup>3</sup> /h	67m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC6-101-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	6m <sup>3</sup> /h	101m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC6-146-110-1300-A/D(HV)	85V-280V(I)	110V-350V	1300W	6m <sup>3</sup> /h	146m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC9.5-50-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	9.5m <sup>3</sup> /h	50m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC9.5-75-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	9.5m <sup>3</sup> /h	75m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC9.5-90-150-1500-A/D(HV)	85V-280V(I)	150V-350V	1500W	9.5m <sup>3</sup> /h	90m	2"	2m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC-A/D(HV) 4/6DSC-A/D(HV)

4" (4/6") AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



AC/DC auto-switching controller (≤2.2KW)

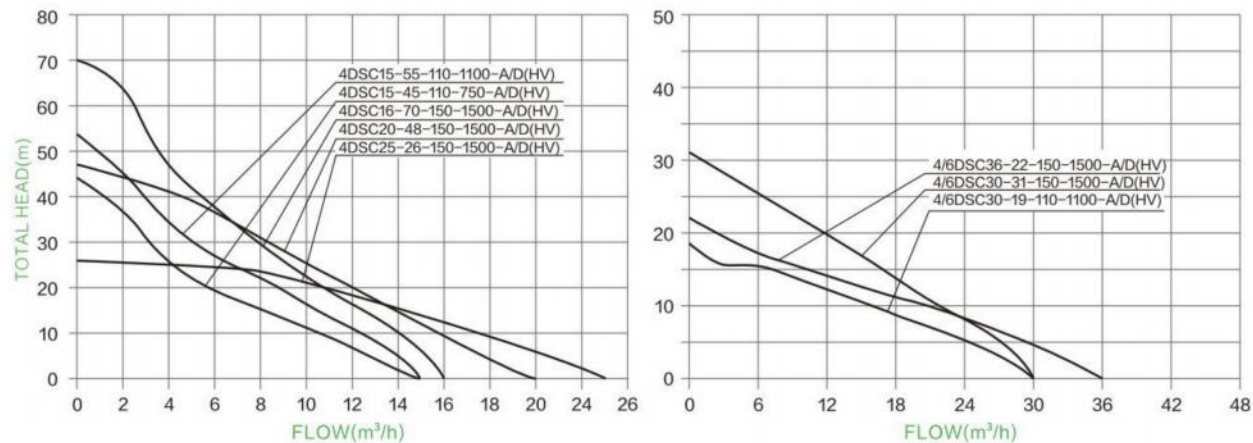


Wide Voltage HV Controller (≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC15-45-110-750-A/D(HV)	85V-280V(l)	110V-350V	750W	15m <sup>3</sup> /h	45m	2"	2m	< 450V	≥1.3*PUMP POWER
4DSC15-55-110-1100-A/D(HV)	85V-280V(l)	110V-350V	1100W	15m <sup>3</sup> /h	55m	2"	2m	< 450V	≥1.3*PUMP POWER
4DSC16-70-150-1500-A/D(HV)	85V-280V(l)	150V-350V	1500W	16m <sup>3</sup> /h	70m	2"	2m	< 450V	≥1.3*PUMP POWER
4DSC20-48-150-1500-A/D(HV)	85V-280V(l)	150V-350V	1500W	20m <sup>3</sup> /h	48m	2"	2m	< 450V	≥1.3*PUMP POWER
4DSC25-26-150-1500-A/D(HV)	85V-280V(l)	150V-350V	1500W	25m <sup>3</sup> /h	26m	2"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC30-19-110-1100-A/D(HV)	85V-280V(l)	110V-350V	1100W	30m <sup>3</sup> /h	19m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC30-31-150-1500-A/D(HV)	85V-280V(l)	150V-350V	1500W	30m <sup>3</sup> /h	31m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC36-22-150-1500-A/D(HV)	85V-280V(l)	150V-350V	1500W	36m <sup>3</sup> /h	22m	3"	2m	< 450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC-A/D(HV) 4/6DSC-A/D(HV)

4" (4/6") AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



Stainless steel Impeller



Stainless steel oil cylinder



NSK Bearing



AC/DC auto-switching controller (<2.2KW)



Wide Voltage HV Controller (<2.2KW)



Wide voltage HV controller (3KW)



AC/DC auto-switching controller (3KW)

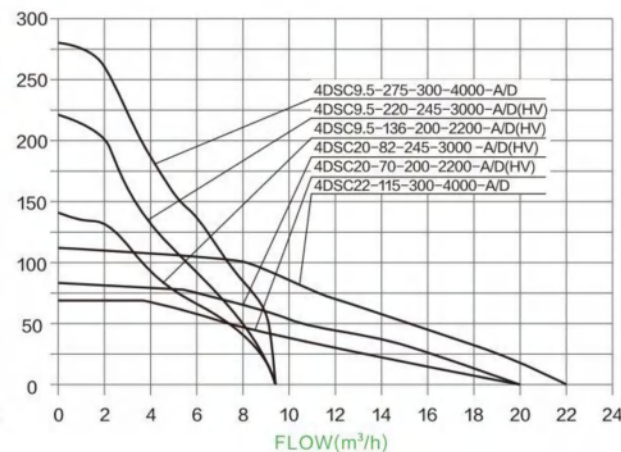
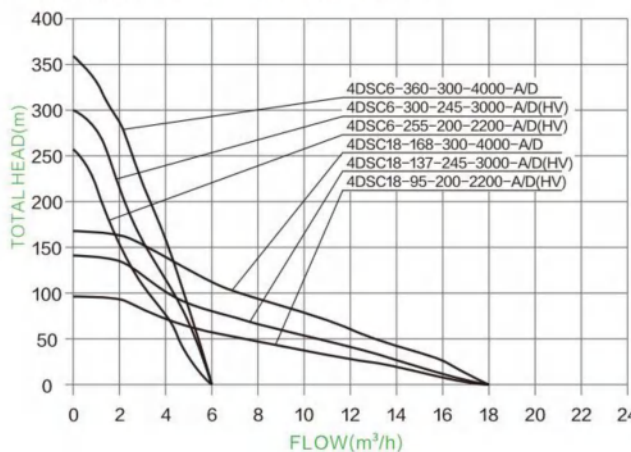


AC/DC controller (4KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC6-255-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	6m³/h	255m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC6-300-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	6m³/h	300m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC6-360-300-4000-A/D	120V-280V	300V-350V	4000W	6m³/h	360m	1.25"	2m	<450V	≥1.3*PUMP POWER
4DSC9.5-136-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	9.5m³/h	136m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC9.5-220-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	9.5m³/h	220m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC9.5-275-300-4000-A/D	120V-280V	300V-350V	4000W	9.5m³/h	275m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC18-95-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	18m³/h	95m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC18-137-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	18m³/h	137m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC18-168-300-4000-A/D	120V-280V	300V-350V	4000W	18m³/h	168m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC20-70-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	20m³/h	70m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC20-82-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	20m³/h	82m	2"	2m	<450V	≥1.3*PUMP POWER
4DSC22-115-300-4000-A/D	120V-280V	300V-350V	4000W	22m³/h	115m	2"	2m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC-A/D(HV) 4/6DSC-A/D(HV)

4" (4/6") AC/DC & WIDE VOLTAGE BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



Stainless steel Impeller



Stainless steel oil cylinder



NSK Bearing



AC/DC auto-switching controller (≤2.2KW)



Wide Voltage HV Controller (≤2.2KW)



Wide voltage HV controller (3KW)



AC/DC auto-switching controller (3KW)

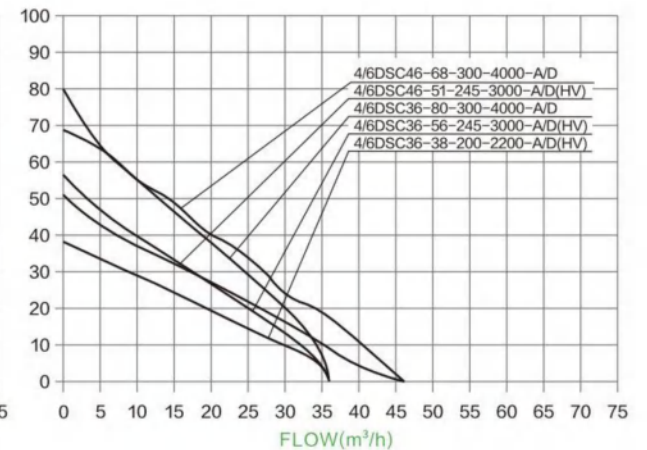
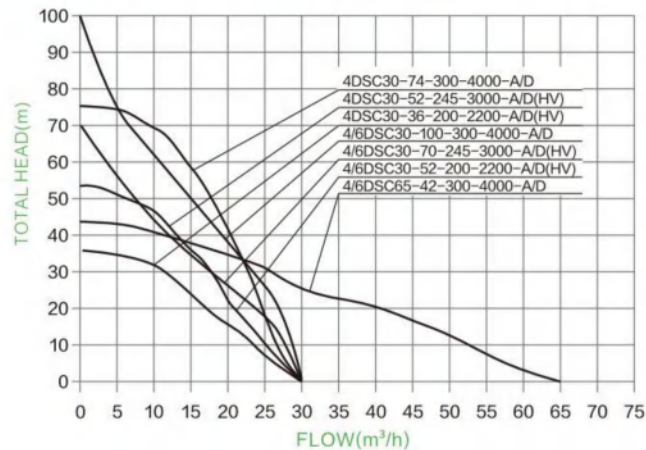


AC/DC controller (4KW)

## TECHNICAL DATA

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC30-36-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	30m³/h	36m	2"	2m	< 450V	≥1.3*PUMP POWER
4DSC30-52-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	30m³/h	52m	2"	2m	< 450V	≥1.3*PUMP POWER
4DSC30-74-300-4000-A/D	120V-280V	300V-350V	4000W	30m³/h	74m	2"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC30-52-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	30m³/h	52m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC30-70-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	30m³/h	70m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC30-100-300-4000-A/D	120V-280V	300V-350V	4000W	30m³/h	100m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC36-38-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	36m³/h	38m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC36-56-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	36m³/h	56m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC36-80-300-4000-A/D	120V-280V	300V-350V	4000W	36m³/h	80m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC46-51-245-3000-A/D(HV)	85V-280V(I)	245V-350V	3000W	46m³/h	51m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC46-68-300-4000-A/D	120V-280V	300V-350V	4000W	46m³/h	68m	3"	2m	< 450V	≥1.3*PUMP POWER
4/6DSC65-42-300-4000-A/D	120V-280V	300V-350V	4000W	65m³/h	42m	3"	2m	< 450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DPC-A/D (3KW-7.5KW)

4" AC/DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Two designs for selection



Plastic Impeller



NSK Bearing



AC/DC auto-switching controller (5.5KW-22KW)

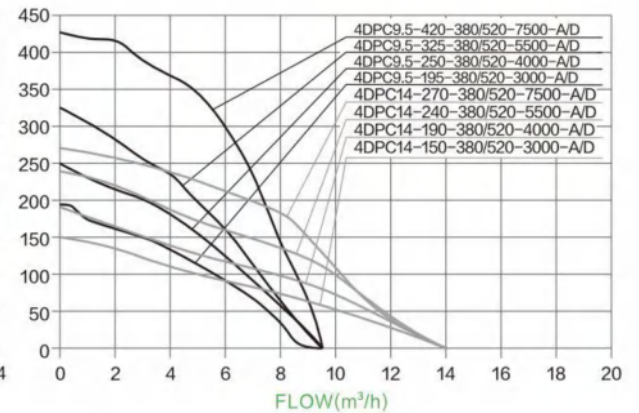
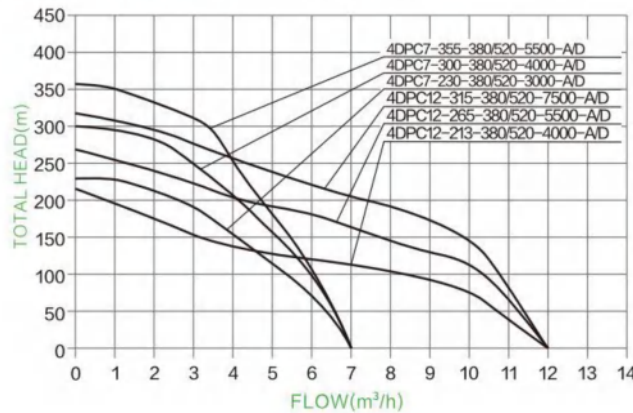


AC/DC auto-switching controller (3KW-4KW)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC7-230-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	7m³/h	230m	1.25"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC7-300-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	7m³/h	300m	1.25"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC7-355-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	7m³/h	355m	1.25"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC9.5-195-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	9.5m³/h	195m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC9.5-250-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	9.5m³/h	250m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC9.5-325-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	9.5m³/h	325m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC9.5-420-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	9.5m³/h	420m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC12-213-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	12m³/h	213m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC12-265-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	12m³/h	265m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC12-315-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	12m³/h	315m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC14-150-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	14m³/h	150m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC14-190-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	14m³/h	190m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC14-240-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	14m³/h	240m	2"	2m	< 900V	≥ 1.3*PUMP POWER
4DPC14-270-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	14m³/h	270m	2"	2m	< 900V	≥ 1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES

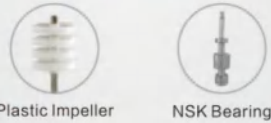


# 4DPC-A/D (3KW-7.5KW)

4"AC/DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Two designs for selection



Plastic Impeller

NSK Bearing



AC/DC auto-switching controller (5.5KW-22KW)

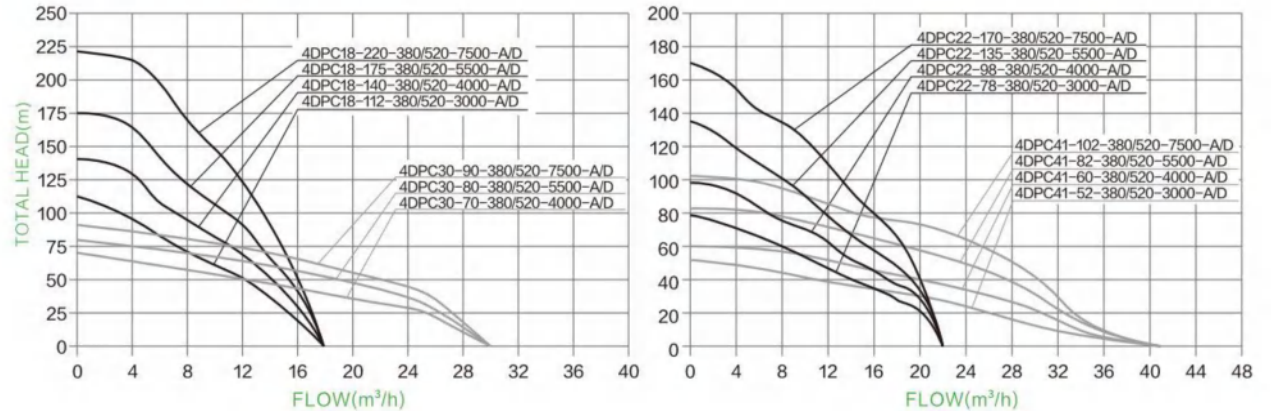


AC/DC auto-switching controller (3KW-4KW)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC18-112-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	18m³/h	112m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC18-140-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	18m³/h	140m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC18-175-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	18m³/h	175m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC18-220-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	18m³/h	220m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC22-78-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	22m³/h	78m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC22-98-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	22m³/h	98m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC22-135-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	22m³/h	135m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC22-170-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	22m³/h	170m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC30-70-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	30m³/h	70m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC30-80-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	30m³/h	80m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC30-90-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	30m³/h	90m	2"	2m	<900V	≥1.3*PUMP POWER
4DPC41-52-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	41m³/h	52m	3"	2m	<900V	≥1.3*PUMP POWER
4DPC41-60-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	41m³/h	60m	3"	2m	<900V	≥1.3*PUMP POWER
4DPC41-82-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	41m³/h	82m	3"	2m	<900V	≥1.3*PUMP POWER
4DPC41-102-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	41m³/h	102m	3"	2m	<900V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC-A/D

4" AC/DC BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



Stainless steel Impeller



Stainless steel oil cylinder



NSK Bearing



AC/DC auto-switching controller (5.5KW-22KW)

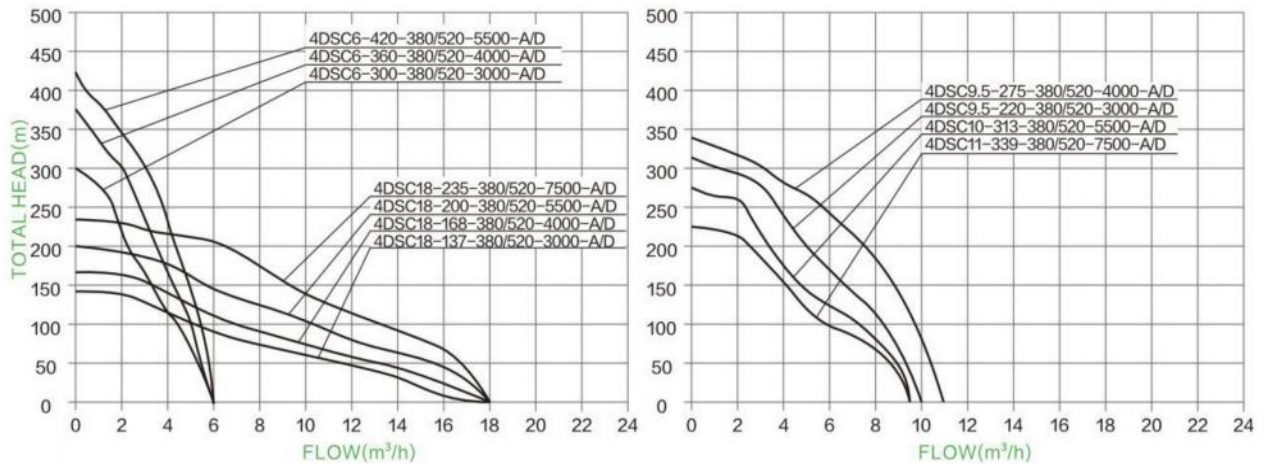


AC/DC auto-switching controller (3KW-4KW)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC6-300-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	6m <sup>3</sup> /h	300m	1.25"	2m	<900V	≥1.3*PUMP POWER
4DSC6-360-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	6m <sup>3</sup> /h	360m	1.25"	2m	<900V	≥1.3*PUMP POWER
4DSC6-420-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	6m <sup>3</sup> /h	420m	1.25"	2m	<900V	≥1.3*PUMP POWER
4DSC9.5-220-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	9.5m <sup>3</sup> /h	220m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC9.5-275-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	9.5m <sup>3</sup> /h	275m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC10-313-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	10m <sup>3</sup> /h	313m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC11-339-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	11m <sup>3</sup> /h	339m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC18-137-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	18m <sup>3</sup> /h	137m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC18-168-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	18m <sup>3</sup> /h	168m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC18-200-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	18m <sup>3</sup> /h	200m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC18-235-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	18m <sup>3</sup> /h	235m	2"	2m	<900V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4DSC-A/D

4"AC/DC BRUSHLESS SOLAR PUMP WITH S/SIMPELLER



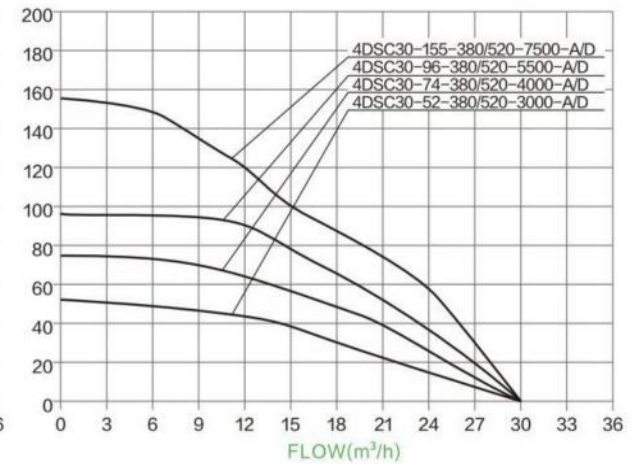
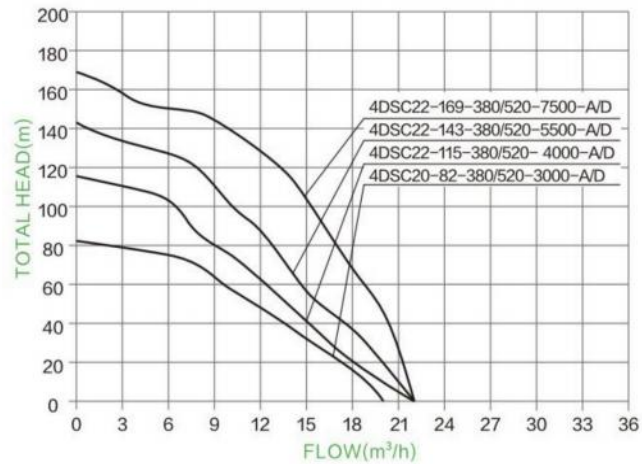
AC/DC auto-switching controller ( 5.5KW-22KW )

( 3KW-4KW )

## TECHNICAL DATA

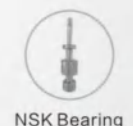
ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DSC20-82-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	20m³/h	82m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC22-115-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	22m³/h	115m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC22-143-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	22m³/h	143m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC22-169-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	22m³/h	169m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC30-52-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	30m³/h	52m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC30-74-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	30m³/h	74m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC30-96-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	30m³/h	96m	2"	2m	<900V	≥1.3*PUMP POWER
4DSC30-155-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	30m³/h	155m	2"	2m	<900V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 4/6DSC-A/D

4/6"AC/DC BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



AC/DC auto-switching controller ( 5.5KW-22KW )

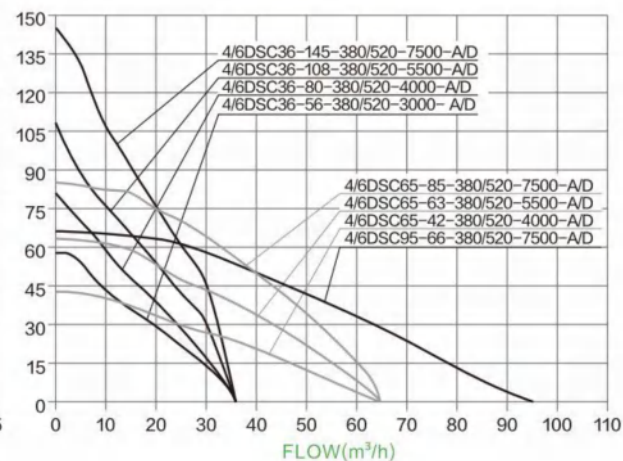
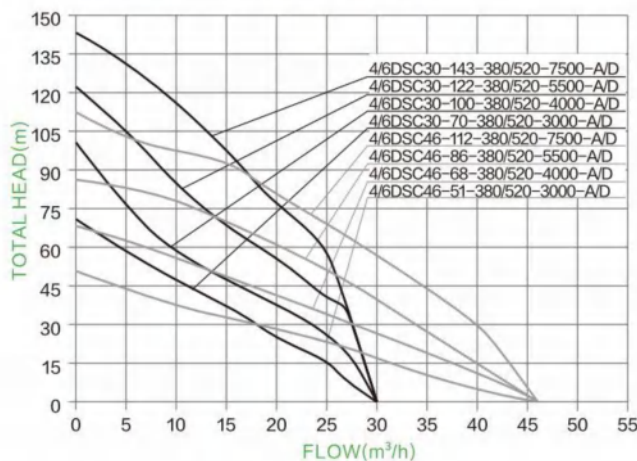


AC/DC auto-switching controller ( 3KW-4KW )

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4/6DSC30-70-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	30m³/h	70m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC30-100-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	30m³/h	100m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC30-122-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	30m³/h	122m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC30-143-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	30m³/h	143m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC36-56-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	36m³/h	56m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC36-80-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	36m³/h	80m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC36-108-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	36m³/h	108m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC36-145-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	36m³/h	145m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC46-51-380/520-3000-A/D	AC380/DC520V	520V-650V	3000W	46m³/h	51m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC46-68-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	46m³/h	68m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC46-86-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	46m³/h	86m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC46-112-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	46m³/h	112m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC65-42-380/520-4000-A/D	AC380/DC520V	520V-650V	4000W	65m³/h	42m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC65-63-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	65m³/h	63m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC65-85-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	65m³/h	85m	3"	2m	<900V	≥1.3*PUMP POWER
4/6DSC95-66-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	95m³/h	66m	4"	2m	<900V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 6DPC-A/D (5.5KW-37KW)

6"AC/DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Plastic Impeller



NSK Bearing



AC/DC auto-switching controller  
( 5.5KW-22KW )

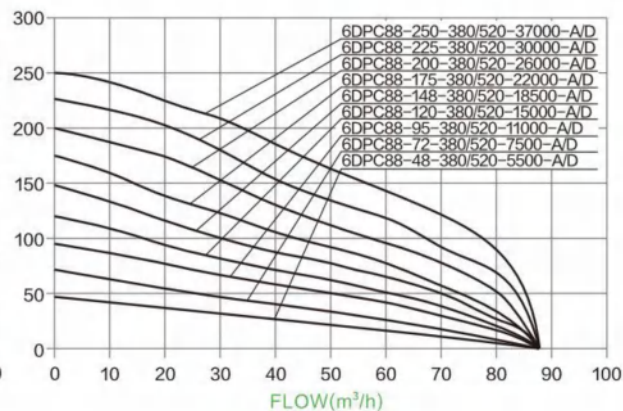
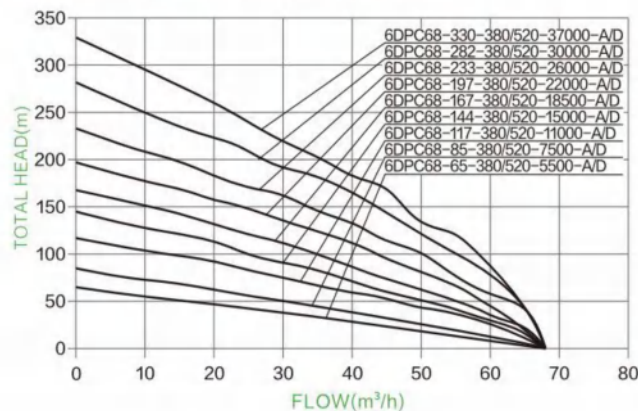


AC/DC controller  
( 26KW-37KW )

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
6DPC68-65-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	68m³/h	65m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC68-85-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	68m³/h	85m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC68-117-380/520-11000-A/D	AC380/DC520V	520V-650V	11000W	68m³/h	117m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC68-144-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	68m³/h	144m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC68-167-380/520-18500-A/D	AC380/DC520V	520V-650V	18500W	68m³/h	167m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC68-197-380/520-22000-A/D	AC380/DC520V	520V-650V	22000W	68m³/h	197m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC68-233-380/520-26000-A/D	AC380/DC520V	520V-650V	26000W	68m³/h	233m	3"	2.5m	<800V	≥1.3*PUMP POWER
6DPC68-282-380/520-30000-A/D	AC380/DC520V	520V-650V	30000W	68m³/h	282m	3"	2.5m	<800V	≥1.3*PUMP POWER
6DPC68-330-380/520-37000-A/D	AC380/DC520V	520V-650V	37000W	68m³/h	330m	3"	2.5m	<800V	≥1.3*PUMP POWER
6DPC88-48-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	88m³/h	48m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC88-72-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	88m³/h	72m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC88-95-380/520-11000-A/D	AC380/DC520V	520V-650V	11000W	88m³/h	95m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC88-120-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	88m³/h	120m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC88-148-380/520-18500-A/D	AC380/DC520V	520V-650V	18500W	88m³/h	148m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC88-175-380/520-22000-A/D	AC380/DC520V	520V-650V	22000W	88m³/h	175m	3"	2m	<900V	≥1.3*PUMP POWER
6DPC88-200-380/520-26000-A/D	AC380/DC520V	520V-650V	26000W	88m³/h	200m	3"	2.5m	<800V	≥1.3*PUMP POWER
6DPC88-225-380/520-30000-A/D	AC380/DC520V	520V-650V	30000W	88m³/h	225m	3"	2.5m	<800V	≥1.3*PUMP POWER
6DPC88-250-380/520-37000-A/D	AC380/DC520V	520V-650V	37000W	88m³/h	250m	3"	2.5m	<800V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 6/8DPC-A/D (7.5KW-37KW)

6/8"AC/DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



Plastic Impeller



NSK Bearing



AC/DC auto-switching controller  
( 5.5KW-22KW )

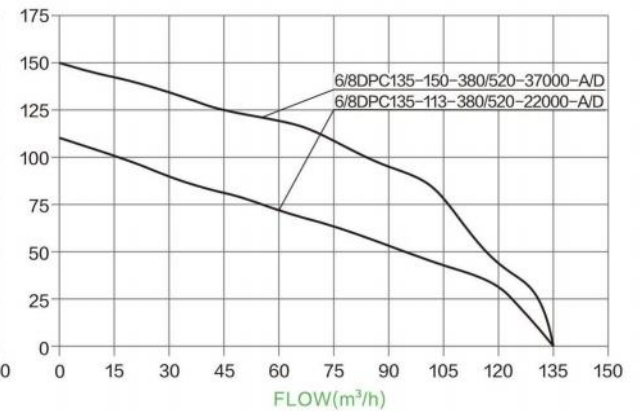
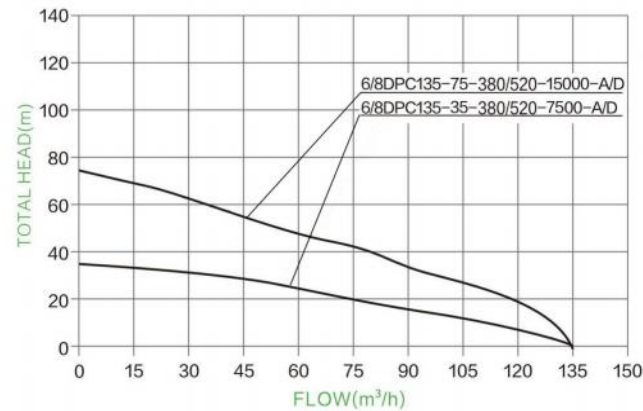


AC/DC controller  
( 26KW-37KW )

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
6/8DPC135-35-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	135m <sup>3</sup> /h	35m	4"	2m	<900V	≥1.3*PUMP POWER
6/8DPC135-75-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	135m <sup>3</sup> /h	75m	4"	2m	<900V	≥1.3*PUMP POWER
6/8DPC135-113-380/520-22000-A/D	AC380/DC520V	520V-650V	22000W	135m <sup>3</sup> /h	113m	4"	2m	<900V	≥1.3*PUMP POWER
6/8DPC135-150-380/520-37000-A/D	AC380/DC520V	520V-650V	37000W	135m <sup>3</sup> /h	150m	4"	2.5m	<800V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 6DSC-A/D

6" AC/DC BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



Stainless steel Impeller



NSK Bearing



AC/DC auto-switching controller ( 5.5KW-22KW )

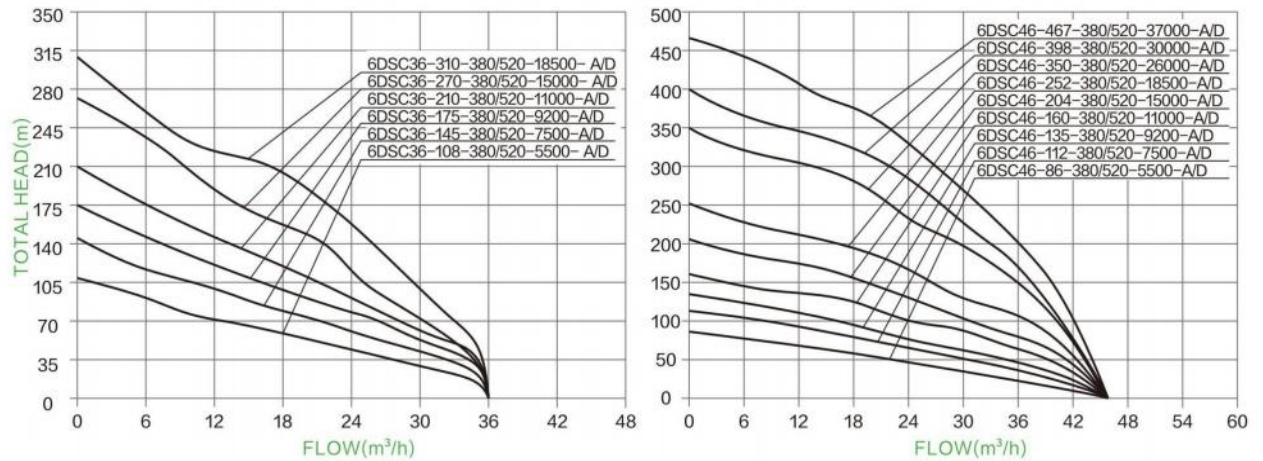


AC/DC controller ( 26KW-37KW )

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
6DSC36-108-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	36m³/h	108m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC36-145-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	36m³/h	145m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC36-175-380/520-9200-A/D	AC380/DC520V	520V-650V	9200W	36m³/h	175m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC36-210-380/520-11000-A/D	AC380/DC520V	520V-650V	11000W	36m³/h	210m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC36-270-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	36m³/h	270m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC36-310-380/520-18500-A/D	AC380/DC520V	520V-650V	18500W	36m³/h	310m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC46-86-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	46m³/h	86m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC46-112-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	46m³/h	112m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC46-135-380/520-9200-A/D	AC380/DC520V	520V-650V	9200W	46m³/h	135m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC46-160-380/520-11000-A/D	AC380/DC520V	520V-650V	11000W	46m³/h	160m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC46-204-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	46m³/h	204m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC46-252-380/520-18500-A/D	AC380/DC520V	520V-650V	18500W	46m³/h	252m	3"	2m	< 900V	≥ 1.3*PUMP POWER
6DSC46-350-380/520-26000-A/D	AC380/DC520V	520V-650V	26000W	46m³/h	350m	3"	2.5m	< 800V	≥ 1.3*PUMP POWER
6DSC46-398-380/520-30000-A/D	AC380/DC520V	520V-650V	30000W	46m³/h	398m	3"	2.5m	< 800V	≥ 1.3*PUMP POWER
6DSC46-467-380/520-37000-A/D	AC380/DC520V	520V-650V	37000W	46m³/h	467m	3"	2.5m	< 800V	≥ 1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 6DSC-A/D

6"AC/DC BRUSHLESS SOLAR PUMP WITH S/S IMPELLER



Stainless steel Impeller



NSK Bearing



AC/DC auto-switching controller (5.5KW-22KW)

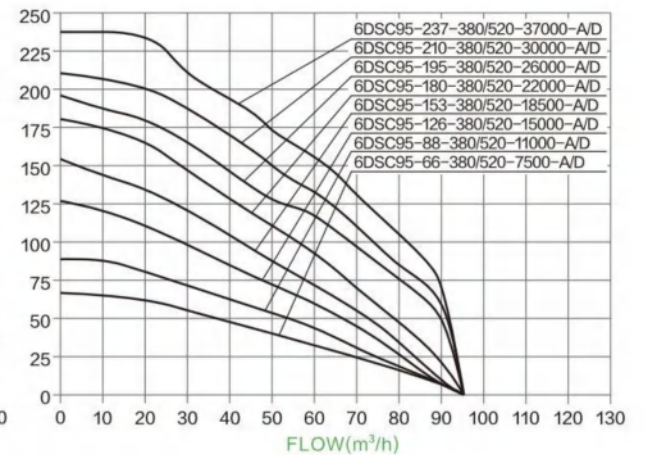
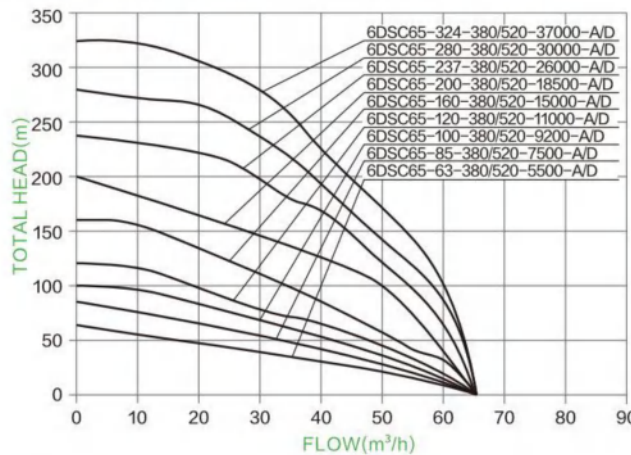


AC/DC controller (26KW-37KW)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
6DSC65-63-380/520-5500-A/D	AC380/DC520V	520V-650V	5500W	65m³/h	63m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC65-85-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	65m³/h	85m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC65-100-380/520-9200-A/D	AC380/DC520V	520V-650V	9200W	65m³/h	100m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC65-120-380/520-11000-A/D	AC380/DC520V	520V-650V	11000W	65m³/h	120m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC65-160-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	65m³/h	160m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC65-200-380/520-18500-A/D	AC380/DC520V	520V-650V	18500W	65m³/h	200m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC65-237-380/520-26000-A/D	AC380/DC520V	520V-650V	26000W	65m³/h	237m	4"	2.5m	<800V	≥1.3*PUMP POWER
6DSC65-280-380/520-30000-A/D	AC380/DC520V	520V-650V	30000W	65m³/h	280m	4"	2.5m	<800V	≥1.3*PUMP POWER
6DSC65-324-380/520-37000-A/D	AC380/DC520V	520V-650V	37000W	65m³/h	324m	4"	2.5m	<800V	≥1.3*PUMP POWER
6DSC95-66-380/520-7500-A/D	AC380/DC520V	520V-650V	7500W	95m³/h	66m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC95-88-380/520-11000-A/D	AC380/DC520V	520V-650V	11000W	95m³/h	88m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC95-126-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	95m³/h	126m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC95-153-380/520-18500-A/D	AC380/DC520V	520V-650V	18500W	95m³/h	153m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC95-180-380/520-22000-A/D	AC380/DC520V	520V-650V	22000W	95m³/h	180m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC95-195-380/520-26000-A/D	AC380/DC520V	520V-650V	26000W	95m³/h	195m	4"	2.5m	<800V	≥1.3*PUMP POWER
6DSC95-210-380/520-30000-A/D	AC380/DC520V	520V-650V	30000W	95m³/h	210m	4"	2.5m	<800V	≥1.3*PUMP POWER
6DSC95-237-380/520-37000-A/D	AC380/DC520V	520V-650V	37000W	95m³/h	237m	4"	2.5m	<800V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# 6DSC-A/D 6/8DSC-A/D

6" (6/8") AC/DC BRUSHLESS SOLAR PUMP  
WITH S/S IMPELLER



Stainless steel  
Impeller



NSK Bearing



AC/DC auto-  
switching controller  
( 5.5KW-22KW )

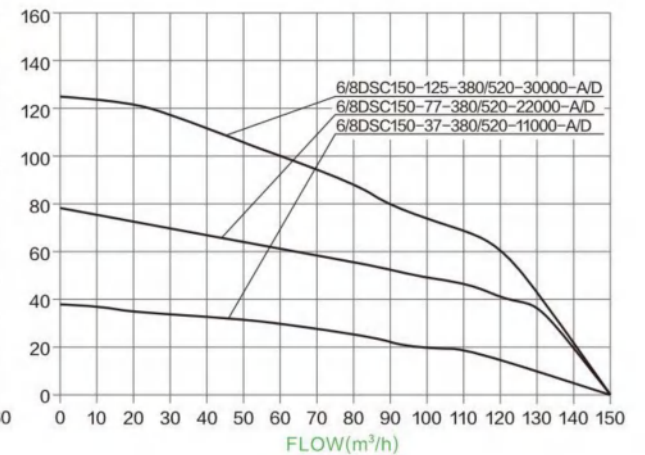
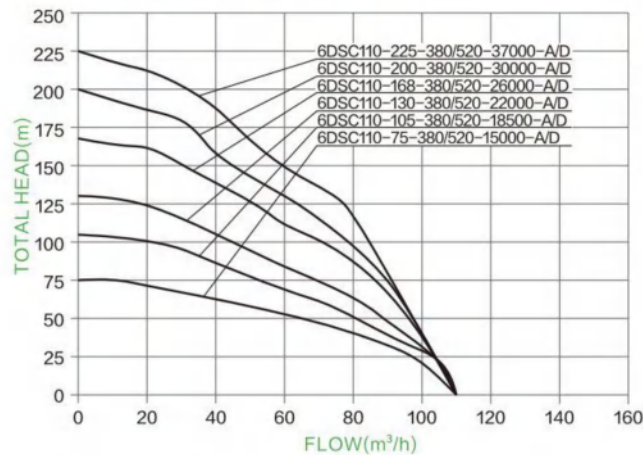


AC/DC controller  
( 26KW-37KW )

## TECHNICAL DATA

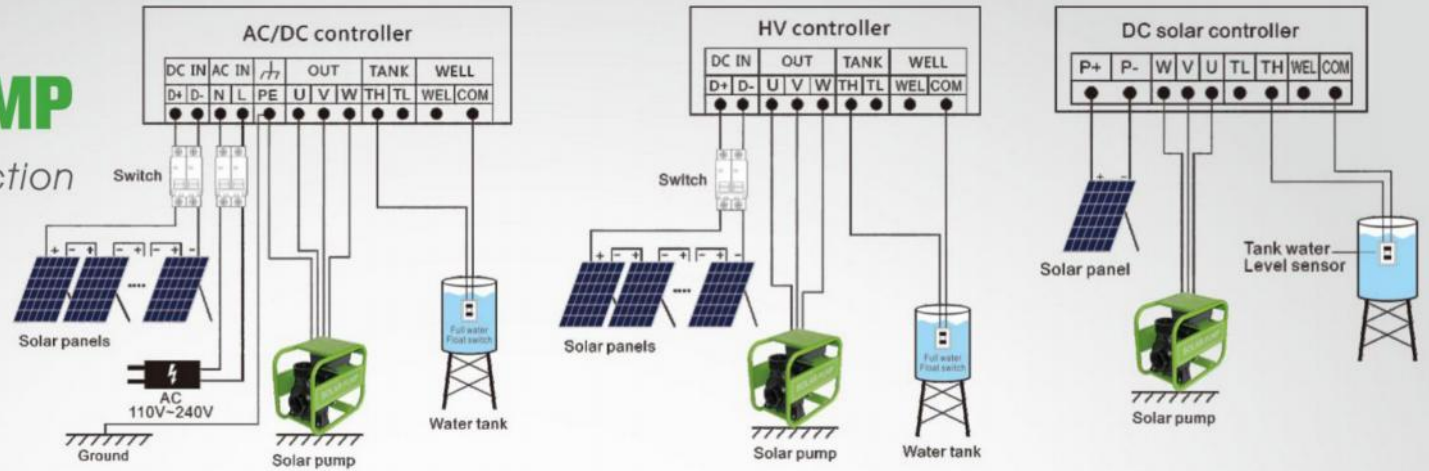
ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
6DSC110-75-380/520-15000-A/D	AC380/DC520V	520V-650V	15000W	110m³/h	75m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC110-105-380/520-18500-A/D	AC380/DC520V	520V-650V	18500W	110m³/h	105m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC110-130-380/520-22000-A/D	AC380/DC520V	520V-650V	22000W	110m³/h	130m	4"	2m	<900V	≥1.3*PUMP POWER
6DSC110-168-380/520-26000-A/D	AC380/DC520V	520V-650V	26000W	110m³/h	168m	4"	2.5m	<800V	≥1.3*PUMP POWER
6DSC110-200-380/520-30000-A/D	AC380/DC520V	520V-650V	30000W	110m³/h	200m	4"	2.5m	<800V	≥1.3*PUMP POWER
6DSC110-225-380/520-37000-A/D	AC380/DC520V	520V-650V	37000W	110m³/h	225m	4"	2.5m	<800V	≥1.3*PUMP POWER
6/8DSC150-37-380/520-11000-A/D	AC380/DC520V	520V-650V	11000W	150m³/h	37m	4"	2m	<900V	≥1.3*PUMP POWER
6/8DSC150-77-380/520-22000-A/D	AC380/DC520V	520V-650V	22000W	150m³/h	77m	4"	2m	<900V	≥1.3*PUMP POWER
6/8DSC150-125-380/520-30000-A/D	AC380/DC520V	520V-650V	30000W	150m³/h	125m	4"	2.5m	<800V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# SOLAR SURFACE PUMP

*Environmental protection and energy saving*



# DCPM DCPM-A/D(HV)

DC&AC/DC & WIDE VOLTAGE BRUSHLESS  
CENTRIFUGAL SOLAR PUMP



DC controller



AC/DC auto-switching controller  
( $\leq 2.2\text{KW}$ )



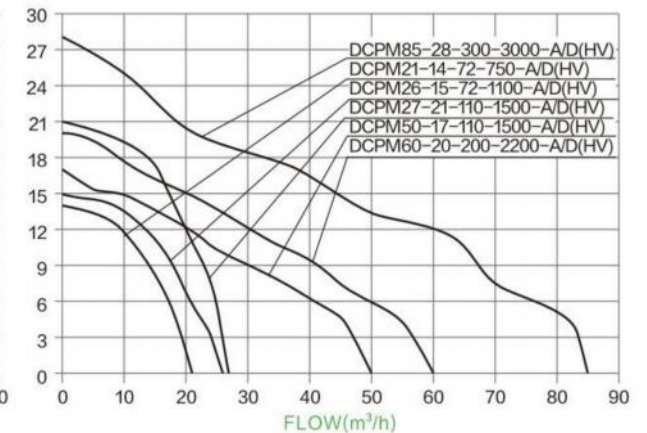
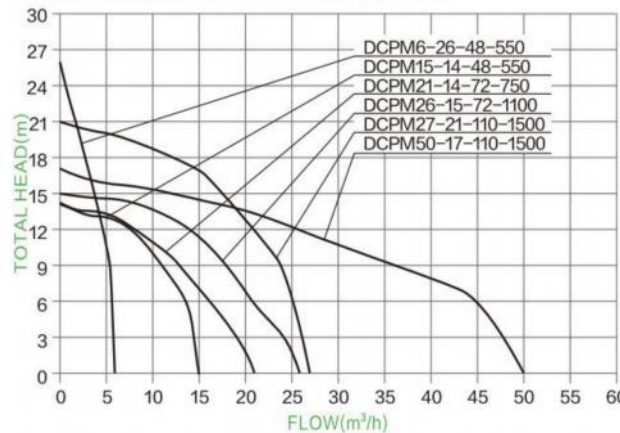
Wide Voltage HV  
Controller  
( $\leq 2.2\text{KW}$ )

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DCPM6-26-48-550	48V	60-90V	550W	6m <sup>3</sup> /h	26m	1"	0.6m	<120V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM15-14-48-550	48V	60-90V	550W	15m <sup>3</sup> /h	14m	1.5"	0.6m	<120V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM21-14-72-750	72V	90-120V	750W	21m <sup>3</sup> /h	14m	2"	0.6m	<170V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM26-15-72-1100	72V	90-120V	1100W	26m <sup>3</sup> /h	15m	2"	0.6m	<170V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM27-21-110-1500	110V	110-150V	1500W	27m <sup>3</sup> /h	21m	2"	0.6m	<220V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM50-17-110-1500	110V	110-150V	1500W	50m <sup>3</sup> /h	17m	3"	0.6m	<220V	$\geq 1.3 \times \text{PUMP POWER}$

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DCPM21-14-72-750-A/D(HV)	85V-280V(I)	100V-350V	750W	21m <sup>3</sup> /h	14m	2"	0.6m	<450V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM26-15-72-1100-A/D(HV)	85V-280V(I)	100V-350V	1100W	26m <sup>3</sup> /h	15m	2"	0.6m	<450V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM27-21-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	27m <sup>3</sup> /h	21m	2"	0.6m	<450V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM50-17-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	50m <sup>3</sup> /h	17m	3"	0.6m	<450V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM60-20-200-2200-A/D(HV)	85V-280V(I)	200V-350V	2200W	60m <sup>3</sup> /h	20m	4"	0.6m	<450V	$\geq 1.3 \times \text{PUMP POWER}$
DCPM85-28-300-3000-A/D(HV)	85V-280V(I)	300V-350V	3000W	85m <sup>3</sup> /h	28m	5"	0.6m	<450V	$\geq 1.3 \times \text{PUMP POWER}$

## HYDRAULIC PERFORMANCE CURVES



# DQB/DQB-A/D DZB/DZB-A/D

DC & AC/DC BRUSHLESS SURFACE SOLAR PUMP



DQB



DZB



DC controller



AC/DC auto-switching controller  
( $\leq 2.2\text{KW}$ )

## TECHNICAL DATA

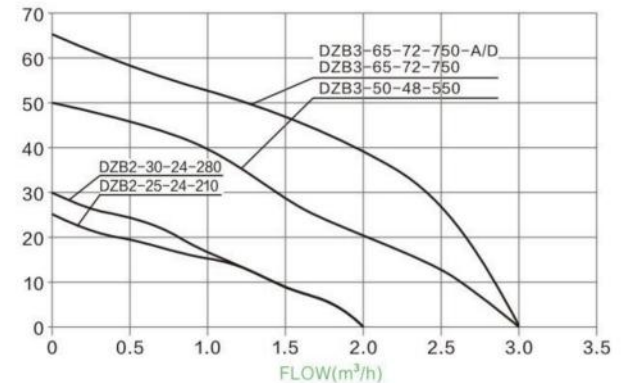
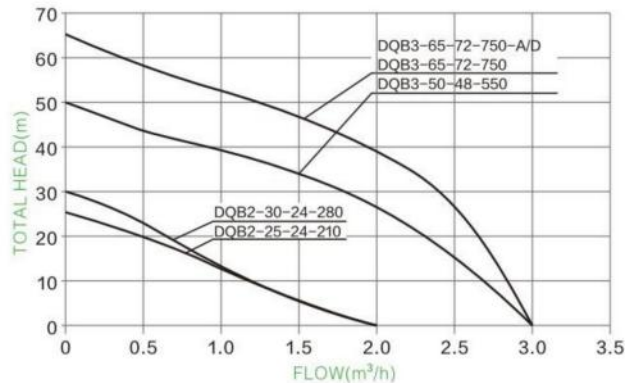
ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DQB2-25-24-210	24V	30V-48V	210W	2m <sup>3</sup> /h	25m	1×1"	2m	<60V	≥1.3*PUMP POWER
DQB2-30-24-280	24V	30V-48V	280W	2m <sup>3</sup> /h	30m	1×1"	2m	<60V	≥1.3*PUMP POWER
DQB3-50-48-550	48V	60V-90V	550W	3m <sup>3</sup> /h	50m	1×1"	2m	<120V	≥1.3*PUMP POWER
DQB3-65-72-750	72V	90V-120V	750W	3m <sup>3</sup> /h	65m	1×1"	2m	<170V	≥1.3*PUMP POWER

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DQB3-65-72-750-A/D	85V-280V	100V-350V	750W	3m <sup>3</sup> /h	65m	1×1"	2m	<450V	≥1.3*PUMP POWER

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DZB2-25-24-210	24V	30V-48V	210W	2m <sup>3</sup> /h	25m	1×1"	2m	<60V	≥1.3*PUMP POWER
DZB2-30-24-280	24V	30V-48V	280W	2m <sup>3</sup> /h	30m	1×1"	2m	<60V	≥1.3*PUMP POWER
DZB3-50-48-550	48V	60V-90V	550W	3m <sup>3</sup> /h	50m	1×1"	2m	<120V	≥1.3*PUMP POWER
DZB3-65-72-750	72V	90V-120V	750W	3m <sup>3</sup> /h	65m	1×1"	2m	<170V	≥1.3*PUMP POWER

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DZB3-65-72-750-A/D	85V-280V	100V-350V	750W	3m <sup>3</sup> /h	65m	1"x1"	2m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# DJET DJET-AD

DC & AC/DC BRUSHLESS SURFACE  
SOLAR PUMP



DC controller



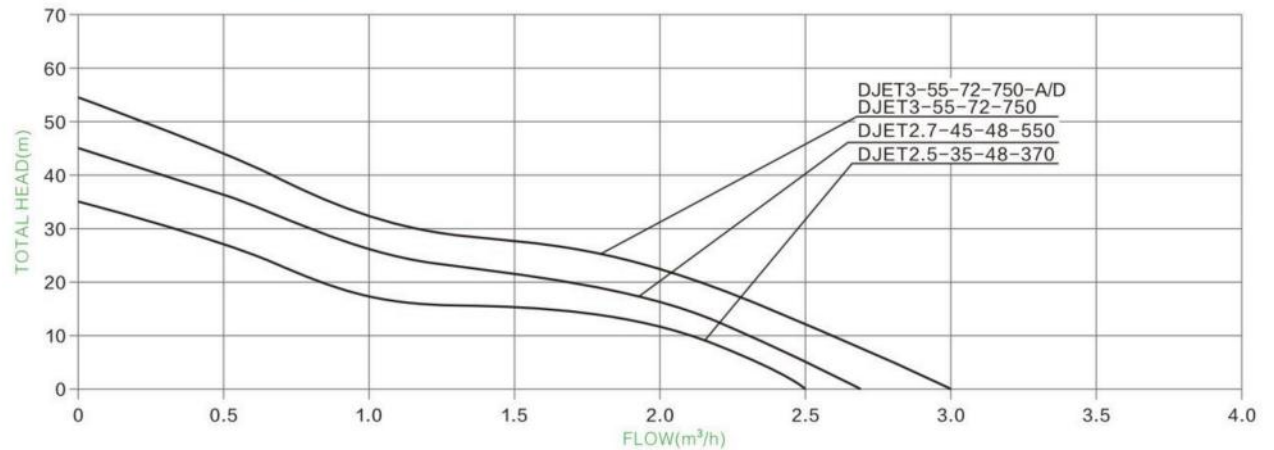
AC/DC auto-switching controller  
( $\leq 2.2\text{KW}$ )

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DJET2.5-35-48-370	48V	60V-90V	370W	2.5m <sup>3</sup> /h	35m	1"x1"	2m	<120V	$\geq 1.3^*$ PUMP POWER
DJET2.7-45-48-550	48V	60V-90V	550W	2.7m <sup>3</sup> /h	45m	1"x1"	2m	<120V	$\geq 1.3^*$ PUMP POWER
DJET3-55-72-750	72V	90V-120V	750W	3m <sup>3</sup> /h	55m	1"x1"	2m	<170V	$\geq 1.3^*$ PUMP POWER

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DJET3-55-72-750-A/D	85V-280V	100V-350V	750W	3m <sup>3</sup> /h	55m	1"x1"	2m	<450V	$\geq 1.3^*$ PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# DLP DLP-A/D

DC&AC/DC BRUSHLESS SWIMMING POOL  
SOLAR PUMP



DC controller



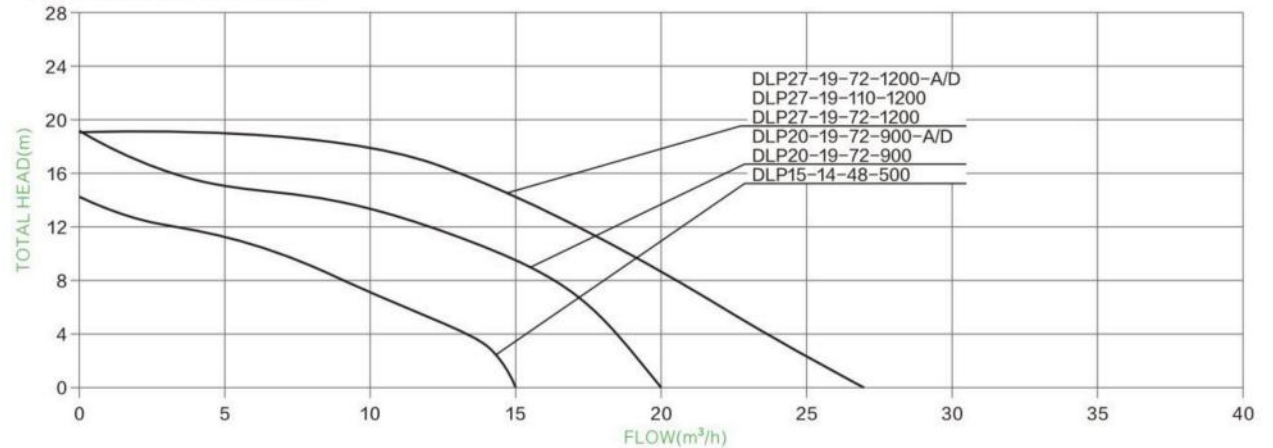
AC/DC auto-switching controller  
( $\leq 2.2\text{KW}$ )

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DLP15-14-48-500	48V	60V-90V	500W	15m <sup>3</sup> /h	14m	2"x2"	2m	<120V	$\geq 1.3 \times \text{PUMP POWER}$
DLP20-19-72-900	72V	90V-120V	900W	20m <sup>3</sup> /h	19m	2"x2"	2m	<170V	$\geq 1.3 \times \text{PUMP POWER}$
DLP27-19-72-1200	72V	90V-120V	1200W	27m <sup>3</sup> /h	19m	3"x3"	2m	<170V	$\geq 1.3 \times \text{PUMP POWER}$
DLP27-19-110-1200	110V	110V-150V	1200W	27m <sup>3</sup> /h	19m	3"x3"	2m	<220V	$\geq 1.3 \times \text{PUMP POWER}$

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DLP20-19-72-900-A/D	85V-280V	100V-350V	900W	20m <sup>3</sup> /h	19m	2"x2"	2m	<450V	$\geq 1.3 \times \text{PUMP POWER}$
DLP27-19-72-1200-A/D	85V-280V	100V-350V	1200W	27m <sup>3</sup> /h	19m	3"x3"	2m	<450V	$\geq 1.3 \times \text{PUMP POWER}$

## PERFORMANCE CURVES



# DQD DQD-A/D(HV)

DC & AC/DC SUBMERSIBLE SOLAR PUMP



DC Controller

AC/DC auto-switching controller (≤2.2KW)

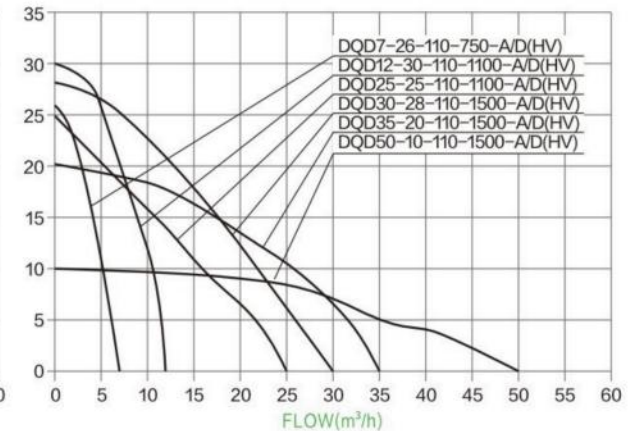
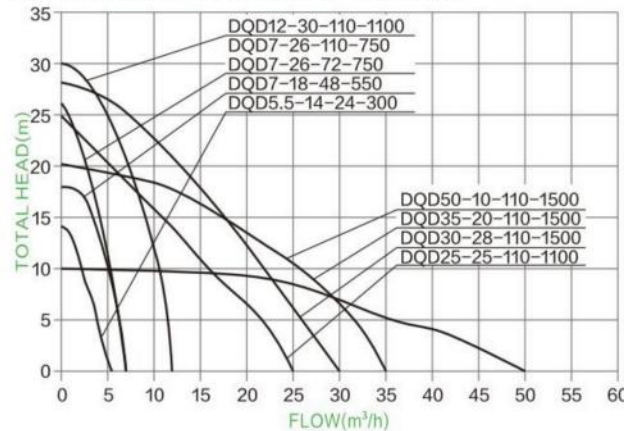
Wide Voltage HV Controller (≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DQD5.5-14-24-300	24V	30V-48V	300W	5.5m³/h	14m	1"	5m	<60V	≥1.3*PUMP POWER
DQD7-18-48-550	48V	60V-90V	550W	7m³/h	18m	1"	5m	<120V	≥1.3*PUMP POWER
DQD7-26-72-750	72V	90V-120V	750W	7m³/h	26m	1"	5m	<170V	≥1.3*PUMP POWER
DQD7-26-110-750	110V	110V-150V	750W	7m³/h	26m	1"	5m	<220V	≥1.3*PUMP POWER
DQD12-30-110-1100	110V	110V-150V	1100W	12m³/h	30m	1.5"	5m	<220V	≥1.3*PUMP POWER
DQD25-25-110-1100	110V	110V-150V	1100W	25m³/h	25m	2"	5m	<220V	≥1.3*PUMP POWER
DQD30-28-110-1500	110V	110V-150V	1500W	30m³/h	28m	2"	5m	<220V	≥1.3*PUMP POWER
DQD35-20-110-1500	110V	110V-150V	1500W	35m³/h	20m	2"	5m	<220V	≥1.3*PUMP POWER
DQD50-10-110-1500	110V	110V-150V	1500W	50m³/h	10m	3"	5m	<220V	≥1.3*PUMP POWER

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DQD7-26-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	7m³/h	26m	1"	5m	<450V	≥1.3*PUMP POWER
DQD12-30-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	12m³/h	30m	1.5"	5m	<450V	≥1.3*PUMP POWER
DQD25-25-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	25m³/h	25m	2"	5m	<450V	≥1.3*PUMP POWER
DQD30-28-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	30m³/h	28m	2"	5m	<450V	≥1.3*PUMP POWER
DQD35-20-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	35m³/h	20m	2.5"	5m	<450V	≥1.3*PUMP POWER
DQD50-10-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	50m³/h	10m	3"	5m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# DWQD DWQD-A/D(HV)

DC & AC/DC SUBMERSIBLE SOLAR PUMP



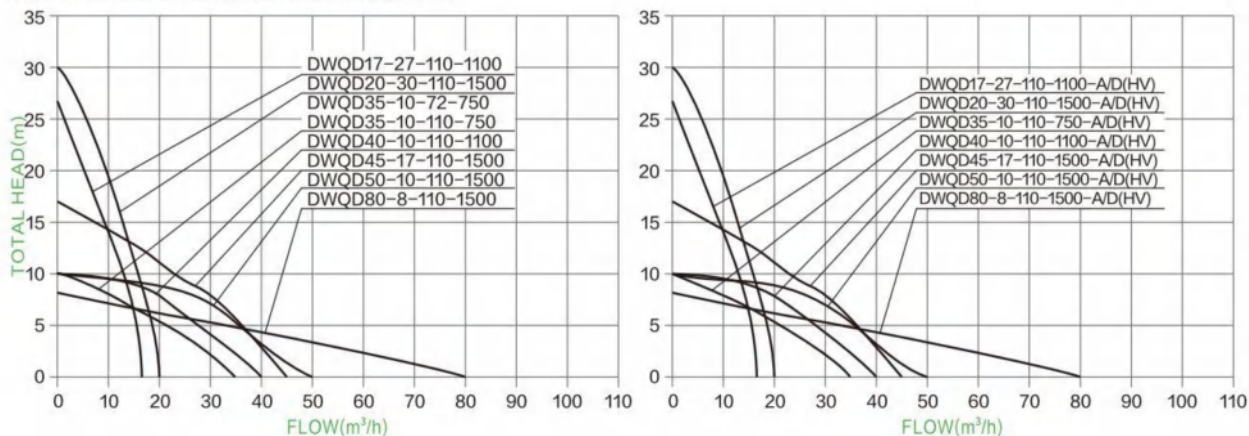
DC Controller      AC/DC auto-switching controller (<math>\leq 2.2\text{KW}</math>)      Wide Voltage HV Controller (<math>\leq 2.2\text{KW}</math>)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DWQD17-27-110-1100	110V	110V-150V	1100W	17m <sup>3</sup> /h	27m	2"	5m	<math>< 220\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD20-30-110-1500	110V	110V-150V	1500W	20m <sup>3</sup> /h	30m	2"	5m	<math>< 220\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD35-10-72-750	72V	90V-120V	750W	35m <sup>3</sup> /h	10m	3"	5m	<math>< 170\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD35-10-110-750	110V	110V-150V	750W	35m <sup>3</sup> /h	10m	3"	5m	<math>< 220\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD40-10-110-1100	110V	110V-150V	1100W	40m <sup>3</sup> /h	10m	3"	5m	<math>< 220\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD45-17-110-1500	110V	110V-150V	1500W	45m <sup>3</sup> /h	17m	3"	5m	<math>< 220\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD50-10-110-1500	110V	110V-150V	1500W	50m <sup>3</sup> /h	10m	3"	5m	<math>< 220\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD80-8-110-1500	110V	110V-150V	1500W	80m <sup>3</sup> /h	8m	4"	5m	<math>< 220\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DWQD17-27-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	17m <sup>3</sup> /h	27m	2"	5m	<math>< 450\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD20-30-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	20m <sup>3</sup> /h	30m	2"	5m	<math>< 450\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD35-10-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	35m <sup>3</sup> /h	10m	3"	5m	<math>< 450\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD40-10-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	40m <sup>3</sup> /h	10m	3"	5m	<math>< 450\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD45-17-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	45m <sup>3</sup> /h	17m	3"	5m	<math>< 450\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD50-10-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	50m <sup>3</sup> /h	10m	3"	5m	<math>< 450\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$
DWQD80-8-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	80m <sup>3</sup> /h	8m	4"	5m	<math>< 450\text{V}</math>	$\geq 1.3 \times \text{PUMP POWER}$

## HYDRAULIC PERFORMANCE CURVES



# DFSU DFSU-A/D(HV)

DC & AC/DC & WIDE VOLTAGE BRUSHLESS  
CENTRIFUGAL SOLAR PUMP



DC controller



AC/DC auto-switching controller  
(≤2.2KW)



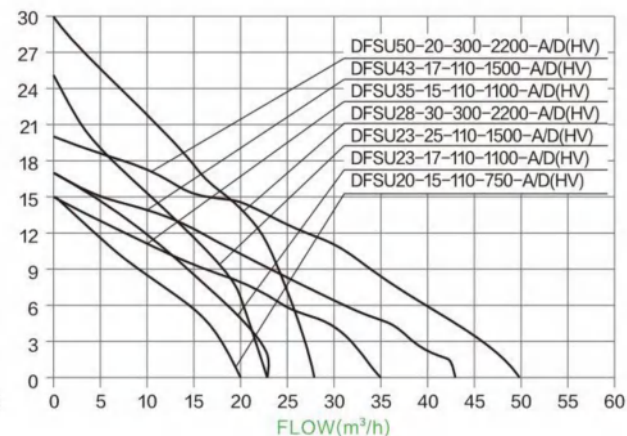
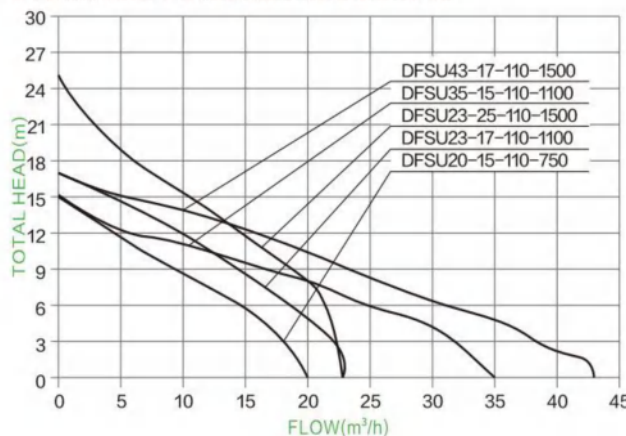
Wide Voltage HV Controller  
(≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DFSU20-15-110-750	110V	110V-150V	750W	20m³/h	15m	2"	0.6m	<220V	≥1.3*PUMP POWER
DFSU23-17-110-1100	110V	110V-150V	1100W	23m³/h	17m	2"	0.6m	<220V	≥1.3*PUMP POWER
DFSU23-25-110-1500	110V	110V-150V	1500W	23m³/h	25m	2"	0.6m	<220V	≥1.3*PUMP POWER
DFSU35-15-110-1100	110V	110V-150V	1100W	35m³/h	15m	3"	0.6m	<220V	≥1.3*PUMP POWER
DFSU43-17-110-1500	110V	110V-150V	1500W	43m³/h	17m	3"	0.6m	<220V	≥1.3*PUMP POWER

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DFSU20-15-110-750-A/D(HV)	85V-280V(I)	110V-350V	750W	20m³/h	15m	2"	0.6m	<450V	≥1.3*PUMP POWER
DFSU23-17-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	23m³/h	17m	2"	0.6m	<450V	≥1.3*PUMP POWER
DFSU23-25-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	23m³/h	25m	2"	0.6m	<450V	≥1.3*PUMP POWER
DFSU28-30-300-2200-A/D(HV)	85V-280V(I)	300V-350V	2200W	28m³/h	30m	2"	0.6m	<450V	≥1.3*PUMP POWER
DFSU35-15-110-1100-A/D(HV)	85V-280V(I)	110V-350V	1100W	35m³/h	15m	3"	0.6m	<450V	≥1.3*PUMP POWER
DFSU43-17-110-1500-A/D(HV)	85V-280V(I)	110V-350V	1500W	43m³/h	17m	3"	0.6m	<450V	≥1.3*PUMP POWER
DFSU50-20-300-2200-A/D(HV)	85V-280V(I)	300V-350V	2200W	50m³/h	20m	3"	0.6m	<450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# DFSN DFSN-A/D(HV)

DC & AC/DC & WIDE VOLTAGE BRUSHLESS  
CENTRIFUGAL SOLAR PUMP



DC controller



AC/DC auto-switching controller  
(≤2.2KW)



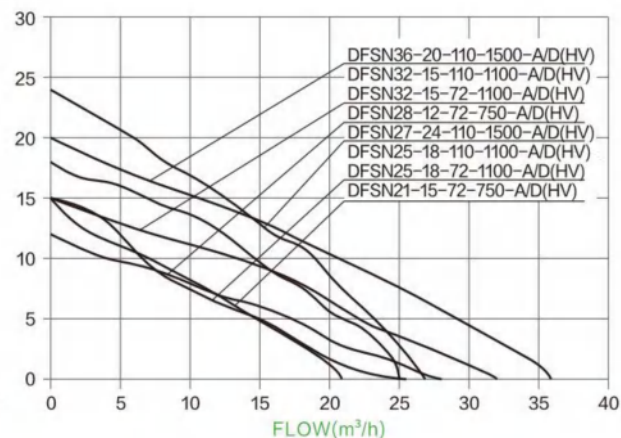
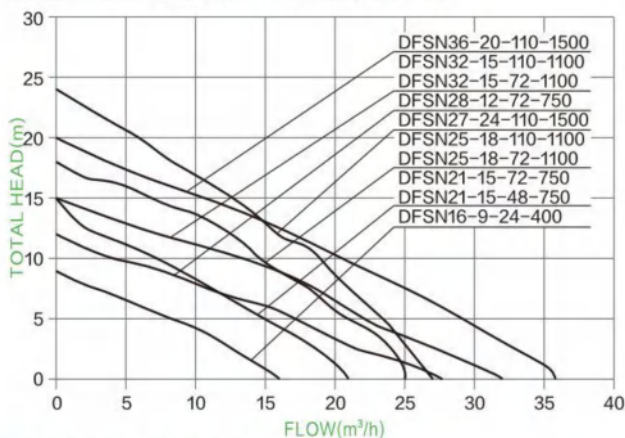
Wide Voltage HV  
Controller  
(≤2.2KW)

## TECHNICAL DATA

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DFSN16-9-24-400	24V	30V-48V	400W	16m³/h	9m	2"	0.6m	< 60V	≥1.3*PUMP POWER
DFSN21-15-48-750	48V	60V-90V	750W	21m³/h	15m	2"	0.6m	< 120V	≥1.3*PUMP POWER
DFSN21-15-72-750	72V	90V-120V	750W	21m³/h	15m	2"	0.6m	< 170V	≥1.3*PUMP POWER
DFSN25-18-72-1100	72V	90V-120V	1100W	25m³/h	18m	2"	0.6m	< 170V	≥1.3*PUMP POWER
DFSN25-18-110-1100	110V	110V-150V	1100W	25m³/h	18m	2"	0.6m	< 220V	≥1.3*PUMP POWER
DFSN27-24-110-1500	110V	110V-150V	1500W	27m³/h	24m	2"	0.6m	< 220V	≥1.3*PUMP POWER
DFSN28-12-72-750	72V	90V-120V	750W	28m³/h	12m	3"	0.6m	< 170V	≥1.3*PUMP POWER
DFSN32-15-72-1100	72V	90V-120V	1100W	32m³/h	15m	3"	0.6m	< 170V	≥1.3*PUMP POWER
DFSN32-15-110-1100	110V	110V-150V	1100W	32m³/h	15m	3"	0.6m	< 220V	≥1.3*PUMP POWER
DFSN36-20-110-1500	110V	110V-150V	1500W	36m³/h	20m	3"	0.6m	< 220V	≥1.3*PUMP POWER

ITEM	Voltage (AC)	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DFSN21-15-72-750-A/D(HV)	85V-280V(l)	100V-350V	750W	21m³/h	15m	2"	0.6m	< 450V	≥1.3*PUMP POWER
DFSN25-18-72-1100-A/D(HV)	85V-280V(l)	100V-350V	1100W	25m³/h	18m	2"	0.6m	< 450V	≥1.3*PUMP POWER
DFSN25-18-110-1100-A/D(HV)	85V-280V(l)	110V-350V	1100W	25m³/h	18m	2"	0.6m	< 450V	≥1.3*PUMP POWER
DFSN27-24-110-1500-A/D(HV)	85V-280V(l)	110V-350V	1500W	27m³/h	24m	2"	0.6m	< 450V	≥1.3*PUMP POWER
DFSN28-12-72-750-A/D(HV)	85V-280V(l)	100V-350V	750W	28m³/h	12m	3"	0.6m	< 450V	≥1.3*PUMP POWER
DFSN32-15-72-1100-A/D(HV)	85V-280V(l)	100V-350V	1100W	32m³/h	15m	3"	0.6m	< 450V	≥1.3*PUMP POWER
DFSN32-15-110-1100-A/D(HV)	85V-280V(l)	110V-350V	1100W	32m³/h	15m	3"	0.6m	< 450V	≥1.3*PUMP POWER
DFSN36-20-110-1500-A/D(HV)	85V-280V(l)	110V-350V	1500W	36m³/h	20m	3"	0.6m	< 450V	≥1.3*PUMP POWER

## HYDRAULIC PERFORMANCE CURVES



# SOLAR AERATOR

BRUSHLESS SOLAR PUMP



Solar Aerator



Solar air oxygenator



DC controller



AC/DC auto-switching controller  
(≤2.2KW)



Solar Paddle Wheel Aerator



Solar Impeller Aerator

## SOLAR AERATOR

ITEM	Voltage	Optimum input voltage (DC)	Power	Max. Flow	Max. Head	Outlet	Solar panel	
							Open circuit voltage(VOC)	Power
DSA15-4.5-48-370	48V	60V-90V	370W	15m³/h	4.5m	3"	<120V	≥1.3*PUMP POWER
DSA25-5-48-750	48V	60V-90V	750W	25m³/h	5m	3"	<120V	≥1.3*PUMP POWER
DSA30-7-72-1100	72V	90V-120V	1100W	30m³/h	7m	3"	<170V	≥1.3*PUMP POWER
DSA40-6-110-1500	110V	110V-150V	1500W	40m³/h	6m	3"	<220V	≥1.3*PUMP POWER
DSA55-5-300-2200-A/D	AC220/DC300V	300V-400V	2200W	55m³/h	5m	4"	<450V	≥1.3*PUMP POWER

## SOLAR AIR OXYGENATOR

ITEM	Voltage	Optimum input voltage (DC)	Power	Oxygenation rate(kg/h)	Covering Area(m²)	Solar panel	
						Open circuit voltage(VOC)	Power
DSAO-48-750	48V	60V-90V	750W	≥1.1	666-2000	<120V	≥1.3*PUMP POWER
DSAO-110-1500	110V	110V-150V	1500W	≥2.3	2000-4000	<220V	≥1.3*PUMP POWER
DSAO-300-2200-A/D	AC220/DC300V	300V-400V	2200W	≥3.4	2665-5328	<450V	≥1.3*PUMP POWER

## SOLAR PADDLE WHEEL AERATOR

ITEM	Voltage	Optimum input voltage (DC)	Power	Oxygenation rate(kg/h)	Covering Area(m²)	Impeller quantity	Solar panel	
							Open circuit voltage(VOC)	Power
DSWA2-48-750	48V	60V-90V	750W	>1.1	666-3330	2	<120V	≥1.3*PUMP POWER
DSWA4-110-1500	110V	110V-150V	1500W	>1.9	2000-6660	4	<220V	≥1.3*PUMP POWER
DSWA6-300-2200-A/D	AC220/DC300V	300V-400V	2200W	>2.0	2665-8000	6	<450V	≥1.3*PUMP POWER

## SOLAR IMPELLER AERATOR

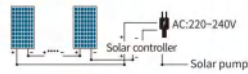
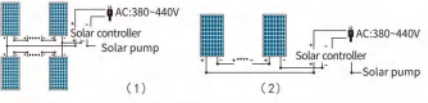
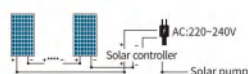
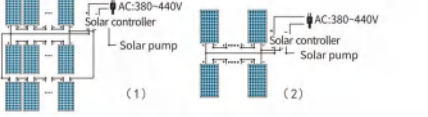
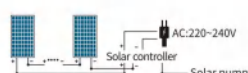
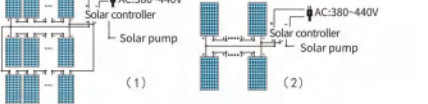
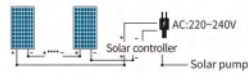
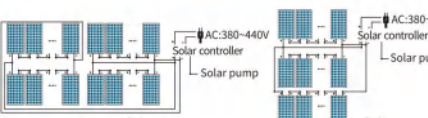
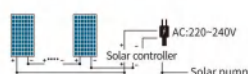
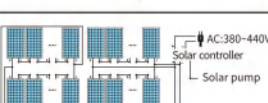
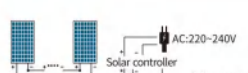
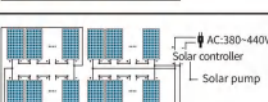
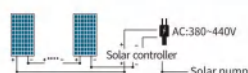
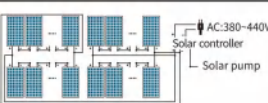
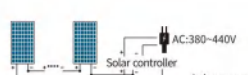
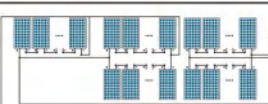
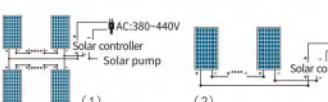
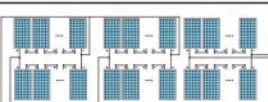
ITEM	Voltage	Optimum input voltage (DC)	Power	Oxygenation rate(kg/h)	Covering Area(m²)	Solar panel	
						Open circuit voltage(VOC)	Power
DSIA-48-750	48V	60V-90V	750W	≥1.1	666-2000	<120V	≥1.3*PUMP POWER
DSIA-72-1100	72V	90V-120V	1100W	≥1.6	2000-2665	<170V	≥1.3*PUMP POWER
DSIA-110-1500	110V	110V-150V	1500W	≥2.3	2000-4000	<220V	≥1.3*PUMP POWER
DSIA-300-2200-A/D	AC220/DC300V	300V-400V	2200W	≥3.4	2665-5328	<450V	≥1.3*PUMP POWER

# Solar panel recommendation for 12V-110V DC solar pump

<p>Power 80W-12V Vmp:30V-48V Voc:&lt;60V Max.Input Current:17A</p>		<p>Solar panel:150W*1PCS Solar panel:270W*1PCS Solar panel:330W*1PCS Solar panel:550W*1PCS</p>
<p>Power 120W-24V 180W-24V 200W-24V 210W-24V 210W-36V Vmp:30V-48V Voc:&lt;60V Max.Input Current:17A</p>		<p>Solar panel:150W*2PCS Solar panel:270W*1PCS Solar panel:330W*1PCS Solar panel:550W*1PCS</p>
<p>Power 280W-24V 300W-24V Vmp:30V-48V Voc:&lt;60V Max.Input Current:17A</p>		<p>Solar panel:270W*2PCS Solar panel:330W*1PCS Solar panel:550W*1PCS</p>
<p>Power 400W-36V Vmp: 30V-48V Voc:&lt;60V Max.Input Current:17A</p>		<p>Solar panel:270W*2PCS Solar panel:330W*2PCS Solar panel:550W*1PCS</p>
<p>Power 370W-48V 400W-48V Vmp:60V-90V Voc:&lt;120V Max.Input Current:17A</p>		<p>Solar panel:270W*2PCS Solar panel:330W*2PCS Solar panel:550W*2PCS</p>
<p>Power 500W-48V 550W-48V Vmp:60V-90V Voc:&lt;120V Max.Input Current:17A</p>		<p>Solar panel:270W*4PCS Solar panel:330W*2PCS Solar panel:550W*2PCS</p>
<p>Power 600W-48V Vmp:60V-90V Voc:&lt;120V Max.Input Current:17A</p>		<p>Solar panel:270W*4PCS Solar panel:330W*4PCS Solar panel:550W*2PCS</p>
<p>Power 750W-48V Vmp:60V-90V Voc:&lt;120V Max.Input Current:17A</p>		<p>Solar panel:270W*4PCS Solar panel:330W*4PCS Solar panel:550W*2PCS</p>

<p>Power 600W-72V Vmp:90V-120V Voc:&lt;170V Max.Input Current:17A</p>		<p>Solar panel:270W*3PCS Solar panel:330W*3PCS Solar panel:550W*3PCS</p>
<p>Power 750W-72V Vmp:90V-120V Voc:&lt;170V Max.Input Current:17A</p>		<p>Solar panel:270W*4PCS Solar panel:330W*3PCS Solar panel:550W*3PCS</p>
<p>Power 900W-72V Vmp:90V-120V Voc:&lt;170V Max.Input Current:17A</p>		<p>Solar panel:270W*4PCS Solar panel:330W*3PCS Solar panel:550W*3PCS</p>
<p>Power 1100W-72V Vmp:90V-120V Voc:&lt;170V Max.Input Current:17A</p>		<p>Solar panel:270W*6PCS Solar panel:330W*6PCS Solar panel:550W*3PCS</p>
<p>Power 750W-110V Vmp:110V-150V Voc:&lt;220V Max.Input Current:17A</p>		<p>Solar panel:270W*4PCS Solar panel:330W*3PCS Solar panel:550W*3PCS</p>
<p>Power 1100W-110V Vmp:110V-150V Voc:&lt;220V Max.Input Current:17A</p>		<p>Solar panel:270W*6PCS Solar panel:330W*6PCS Solar panel:550W*3PCS</p>
<p>Power 1300W-110V Vmp:110V-150V Voc:&lt;220V Max.Input Current:17A</p>		<p>Solar panel:270W*8PCS Solar panel:330W*6PCS Solar panel:550W*3PCS</p>
<p>Power 1500W-110V Vmp:110V-150V Voc:&lt;220V Max.Input Current:17A</p>		<p>Solar panel:270W*8PCS Solar panel:330W*8PCS Solar panel:550W*4PCS</p>

# Solar panel recommendation for 220V-380V AC/DC & HV solar pump

<p>PUMP POWER 750W-72V AC Vol:85V~280V DC Vmp:100V~350V Voc:&lt;450V Max.Input Current:17A</p>		<p>Solar panel:550W*3PCS Solar panel:330W*4~6PCS</p>	<p>PUMP POWER 7500W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:25.5A</p>		<p>Solar panel:330W*30PCS(1) Solar panel:550W*17PCS(2)</p>
<p>PUMP POWER 750W-110V 1100W-110V 1200W-110V 1300W-110V AC Vol:85V~280V DC Vmp:110V~350V Voc:&lt;450V Max.Input Current:17A</p>		<p>Solar panel:550W*3PCS Solar panel:330W*5~7PCS</p>	<p>PUMP POWER 9200W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:32A</p>		<p>Solar panel:330W*36PCS(1) Solar panel:550W*26PCS(2)</p>
<p>PUMP POWER 1500W-150V AC Vol:85V~280V DC Vmp:150V~350V Voc:&lt;450V Max.Input Current:17A</p>		<p>Solar panel:550W*3~4PCS Solar panel:330W*6~8PCS</p>	<p>PUMP POWER 11000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:32A</p>		<p>Solar panel:330W*42PCS(1) Solar panel:550W*26PCS(2)</p>
<p>PUMP POWER 2200W-200V AC Vol:85V~280V DC Vmp:200V~350V Voc:&lt;450V Max.Input Current:17A</p>		<p>Solar panel:550W*5~6PCS Solar panel:330W*8~9PCS</p>	<p>PUMP POWER 15000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:40A</p>		<p>Solar panel:330W*60PCS(1) Solar panel:550W*39PCS(2)</p>
<p>PUMP POWER 3000W-245V AC Vol:85V~280V DC Vmp:245V~350V Voc:&lt;450V Max.Input Current:17A</p>		<p>Solar panel:550W*7PCS Solar panel:330W*12PCS</p>	<p>PUMP POWER 18500W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:48A</p>		<p>Solar panel:450W*56PCS Solar panel:550W*52PCS</p>
<p>PUMP POWER 4000W-300V AC Vol:85V~280V DC Vmp:300V~350V Voc:&lt;450V Max.Input Current:17A</p>		<p>Solar panel:550W*8PCS Solar panel:330W*15PCS</p>	<p>PUMP POWER 22000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:56A</p>		<p>Solar panel:450W*60PCS Solar panel:550W*56PCS</p>
<p>PUMP POWER 3000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:17A</p>		<p>Solar panel:550W*13PCS Solar panel:330W*12PCS</p>	<p>PUMP POWER 26000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;800V Max.Input Current:50A</p>		<p>Solar panel:550W*60PCS</p>
<p>PUMP POWER 4000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:17A</p>		<p>Solar panel:550W*13PCS Solar panel:330W*15PCS</p>	<p>PUMP POWER 30000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;800V Max.Input Current:57A</p>		<p>Solar panel:550W*75PCS</p>
<p>PUMP POWER 5500W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;900V Max.Input Current:17A</p>		<p>Solar panel:330W*22PCS(1) Solar panel:550W*13PCS(2)</p>	<p>PUMP POWER 37000W-520V AC Vol:380V~440V DC Vmp:520V~650V Voc:&lt;800V Max.Input Current:69A</p>		<p>Solar panel:550W*90PCS</p>

# 4DGS-A/D 4" HIGH SPEED DEEP WELL PUMP



Stainless steel outlet



Stainless steel connecting fitting



Stainless steel oil cylinder

Max. running speed:  
**6000RPM**



220V AC/DC auto-switching controller (2.2KW)



220V AC/DC auto-switching controller (3KW)



220V AC/DC controller (4KW)



380V AC/DC auto-switching controller (2.2KW-4KW)



380V AC/DC auto-switching controller (5.5KW-13KW)

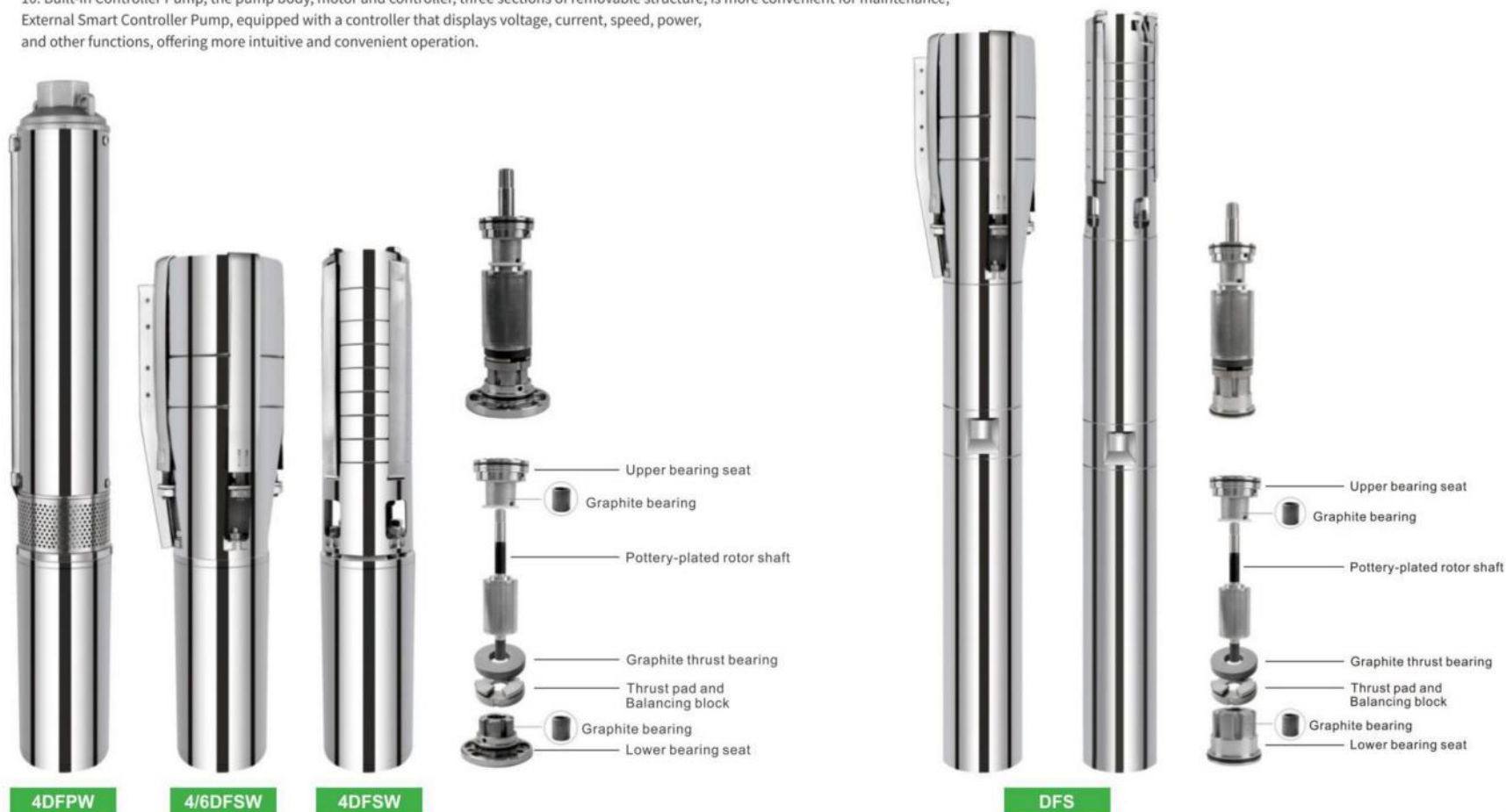


380V AC/DC auto-switching controller (15KW-22KW)

1. Permanent magnet DC brushless synchronous motor: The efficiency is increased by 15% - 20%, saving energy consumption.
2. The whole 304 stainless steel rotor shaft avoids the risk of shaft breakage.
3. Stainless steel outlet/connector/ oil cylinder, with better corrosion resistance.
4. Japanese NSK bearing, longer working life.
5. Two deep groove ball bearings are used at the upper end, and two angular contact bearings are used at the lower end, which can withstand greater radial force and axial force.
6. Two silicon carbide-impregnated graphite mechanical seal of Italian brand, longer service life and deeper submerging depth.
7. 180°C high temperature resistant copper wire, insulation class F.
8. Cold rolled 600 silicon steel sheet stator and rotor.
9. The magnet is made of 40SH NdFeB (neodymium iron boron), with a temperature resistance of 150°C.
10. S/S pump shaft, impellers adopt whole-stage floating wear-resistant and sand-resistant structure.
11. The whole pump is small volume and strong power, saving the pump installation cost into the well.
12. Controller:
  - (1) Waterproof grade: IP65
  - (2) Wide open circuit voltage range. AC: 260-528V; DC: 200-780V
  - (3) Ambient temperature: -15°C~60°C
  - (4) MPPT function, the solar power utilization rate is higher.
  - (5) LED displays the power, voltage, current, speed etc working condition.
  - (6) It can automatically adjust the speed for operation according to the sunlight power, and can also manually adjust the speed for operation according to the actual demand.
  - (7) Automatic startup and shutdown, without personnel on duty.
  - (8) Soft start: No impulse current, protect the pump motor.
  - (9) Over-voltage/undervoltage/over-current/phase loss/short circuit/water shortage/ high temperature protection etc.
  - (10) Both AC and DC can be used, AC and DC automatic switching function.

# WATER FILLED MOTOR SOLAR PUMP

1. Double inner and outer shielded deep well pump with field-oriented control function ,is made of 304 stainless steel. More environmental protection ,no oil pollution.
2. The whole 304 stainless steel rotor shaft with ceramic plating process at both ends, is more wear-resistant.
3. Water cooling structure of shielded motor, without mechanical seal, solves the problem of water leakage of traditional water pump motor.
4. 180°C high temperature resistant copper wire, insulation class F.
5. Cold rolled 600 silicon steel sheet stator and rotor.
6. The magnet is made of 40SH NdFeB, with a temperature resistance of 150°C.
7. Shielded motor adopts graphite bearing, which has strong self lubrication and corrosion resistance, and can operate reliably in the form of water lubrication.
8. Thrust bearing, providing strong and stable thrust.
9. Submerging depth can reach 150 meters.
10. Built-in Controller Pump, the pump body, motor and controller, three sections of removable structure, is more convenient for maintenance;  
External Smart Controller Pump, equipped with a controller that displays voltage, current, speed, power, and other functions, offering more intuitive and convenient operation.



# DLQY/DZQY OIL-IMMERSED SUBMERSIBLE PUMP

- 1.Housing Material: 316 stainless steel barrel, 304 precision-cast pump body
- 2.Connection: 304 precision-cast
- 3.Impeller: 304 precision-cast
- 4.Pump Head: 304 precision-cast
- 5.180°C Heat-Resistant Frequency Conversion Enameled Wire, ensuring longer motor lifespan
- 6.Japanese NSK Brand Bearings, providing extended service life
- 7.400 Cold-Rolled Silicon Steel Sheet
- 8.Magnets Made of 40SH NdFeB Material, temperature-resistant up to 150°C
9. Motor Speed: 3,300 RPM



380V AC/DC auto-switching controller  
( 5.5-18.5KW )



380V AC/DC auto-switching controller  
( 4KW )



DLQY



DLQY



DZQY



DZQY



DZQY

Oil-Immersed Submersible Pumps (DQY Series) integrates the advantages of permanent magnet synchronous motors, variable frequency technology, and stainless steel component design. It is widely used in industrial construction, aquaculture, agricultural irrigation, flood control & drought relief, petroleum & chemical industries, and water treatment applications.



Oil-Immersed Submersible Pumps excel in energy efficiency, reliability, and adaptability by combining high-performance motors with intelligent control systems. They are particularly suitable for applications demanding high energy efficiency and operational stability, making them a superior upgrade over traditional pumps.

**HIGH ENERGY EFFICIENCY**

- ① **Permanent Magnet Synchronous Motor:** 10%-20% higher efficiency than traditional induction motors. Maintains high efficiency even under partial load or low-speed operation, minimizing energy waste.
- ② **Variable Frequency Speed Control:** Adjusts motor speed precisely to match actual operational demands. Eliminates the "oversized motor for small load" inefficiency, significantly reducing energy consumption.
- ③ **Energy-Saving Benefits:** Substantial long-term electricity cost savings due to optimized performance.

**STABLE OPERATION**

- ① **Soft Start/Soft Stop:** Reduces starting current, minimizes grid impact, and extends equipment lifespan.
- ② **Multi-Protection System:** Built-in controller protections: over-voltage, under-voltage, over-current, phase loss, short circuit, water shortage, and over-temperature for enhanced system safety.

**DURABLE & RELIABLE EXTENDED SERVICE LIFE**

- ① **Oil-Immersed Cooling Design:** Superior thermal management through oil circulation cooling for both motor and bearings. Prevents performance degradation or damage caused by overheating
- ② **Corrosion & Rust Protection:** Full stainless steel construction Suitable for seawater and corrosive environments
- ③ **Maintenance-Free Permanent Magnet Motor:** Significantly reduced failure rate

**SUPERIOR ADAPTABILITY**

- ① **Wide Operating Range:** Variable frequency drive enables precise speed adjustment Adapts seamlessly to fluctuating flow and pressure requirements
- ② **Low-Noise Operation:** Frequency conversion minimizes mechanical vibration Ideal for noise-sensitive environments

**EASY INSTALLATION**

**Permanent Magnet Motor - Compact & Lightweight Design:**  
 High power density with optimized structure  
 Space-saving installation due to reduced footprint

**ECO-FRIENDLY & COST-EFFECTIVE**

- ① **Carbon Emission Reduction:** High-efficiency energy-saving performance supports green manufacturing Complies with global environmental regulations and sustainability standards
- ② **Lower Lifetime Costs:** Higher initial investment offset by long-term savings. Rapid cost recovery through reduced electricity and maintenance expenses

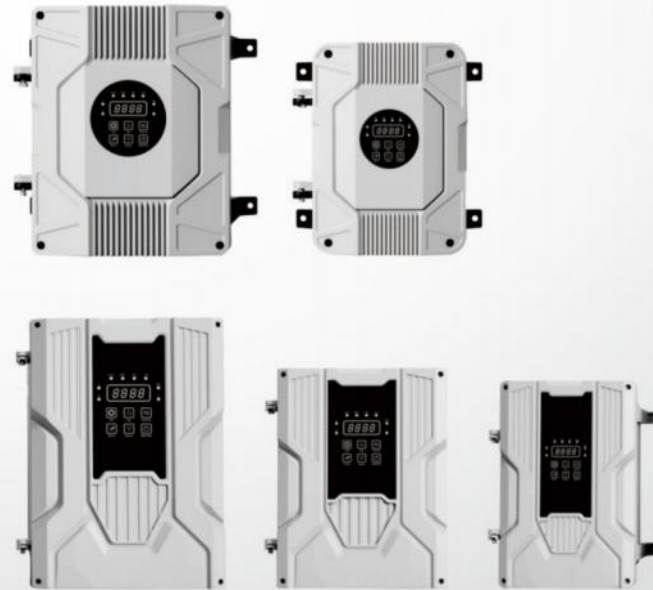
# 4500 RPM DIFFUL & WELLUP WATER PUMP



Featuring a 4500 RPM permanent magnet synchronous motor, perfectly matched with the output characteristics of solar panels, this series delivers higher head and greater flow.

Whether for agricultural irrigation, livestock water supply, landscape projects, or domestic water use, our products provide an

**efficient, reliable, and economical green water solution.**



# SOLAR PUMP WITH BUILT-IN CONTROLLER

A system where the solar-specific controller is integrated within the pump, eliminating the need for additional purchase and installation of a separate controller. It is simple, convenient, and significantly reduces installation difficulty and the probability of errors.



Agricultural Irrigation



Residential Gardens



Livestock Watering



Water Source Extraction

## Integrated Design Smart Water Solution

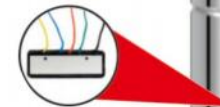
- 1.All-in-One Design, Easy Installation.
- 2.Permanent magnet brushless synchronous motor,long working life and high working efficiency.
- 3.Stainless steel outlet/connector, with better corrosion resistance.
- 4.Silicon carbide-impregnated graphite mechanical seal, long service life and reliable operation.
- 5.180°C high temperature resistant copper wire, insulation class F.
- 6.Cold rolled 600 silicon steel sheet stator and rotor.
- 7.MPPT function, the solar power utilization rate is higher.
- 8.Automatically adjust the speed for operation according to the sunlight power.
- 9.Over-voltage/undervoltage/over-current/phase loss/short circuit/high temperature protection etc.

### DC Model

Voltage: 24V-110V  
Power: 120W-1500W

### AC/DC Model

Voltage: 72V-245V  
Max Power: 750W-3000W



MPPT CONTROLLER





## AC/DC HYBRID SOLAR PUMP CONTROLLER

AC and DC simultaneous power supply, prioritizing consumption of photovoltaic power, automatic intelligent mixed complementarity, without manual switching.

Positionless FOC vector variable frequency control of permanent magnet synchronous motor.

Digital active PFC, power factor up to 0.999.

Intelligent mixed complementarity, without manual switching.

Efficient MPPT tracking technology.

Wide voltage input, strong commonality.

### PARAMETER INDEX:

- 1.AC working voltage: 90VAC~260VAC, auto-adaptive frequency.
2. DC working voltage: 150VDC-430VDC
3. Max. AC input current:15A
4. Max.DC input current: 15A
- 5.Max.input power:3KW
- 6.Waterproof rate: IP65
- 7.Electronic control working environment temperature:-15~60°C

## (SOLAR PUMP CONTROLLER)



DC controller



AC/DC auto-switching controller (≤2.2kw)



Wide voltage HV controller (≤2.2kw)

### Working environment and electrical property

Controller Model	Adaptable Pump	Max.Input Current(A)	Max.Open Circuit Voltage(V)	MPPT Voltage Range(V)
TP-24	Rated 24V Pump	17	<50	30-48
TP-48	Rated 48V Pump	17	<100	60-90
TP-72	Rated 72V Pump	17	<150	90-120
TP-96	Rated 96V Pump	17	<200	110-150

**(SOLAR PUMP CONTROLLER)**

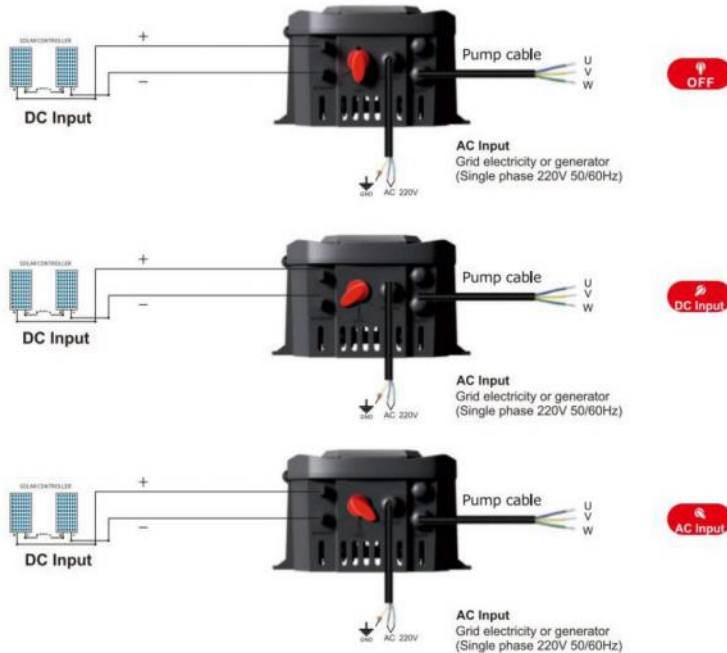


AC/DC controller  
(≤2.2kw)

Wide voltage HV  
controller  
(≤2.2kw)

DC controller

**AC input and Dc input can not work at the same time**



**ECO (SOLAR PUMP CONTROLLER)**



AC/DC auto-switching controller  
(≤2.2kw)

Wide voltage HV  
controller  
(≤2.2kw)

DC controller



1. AC/DC Auto-switching Controller
2. Optional switch for manual switching mode

**MINI (SOLAR PUMP CONTROLLER)**

