



Zhejiang CHINT Electrics Co., Ltd.



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Directory

P03-06

Photovoltaic water supply special inverter introduction

P07-12

Photovoltaic AC pump technology selection

P13-16

Photovoltaic DC pump water supply system introduction

P17-22

Photovoltaic system accessories

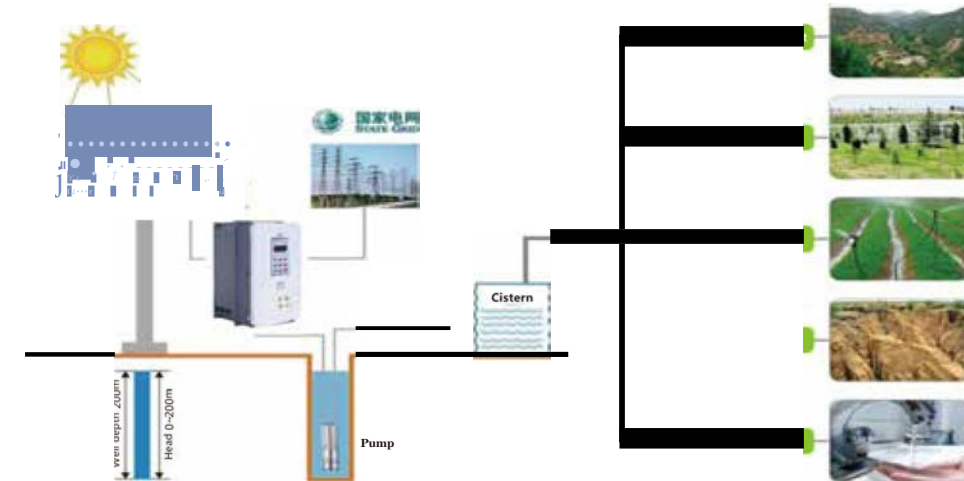
01

Photovoltaic water supply special inverter introduction



Photovoltaic Frequency Conversion water supply System

The water supply system of the solar photovoltaic water pump includes solar modules, photovoltaic inverter, water pump, ground installation system and accessories.



Programme

Inverter can track maximum output power

The photovoltaic inverter can detect the generation voltage of the photovoltaic panel in real time, and track the maximum voltage and current value, so that the system can output the maximum power to give full play to the maximum efficiency of the photovoltaic panels.

Internal energy-saving mode

When the sun is sufficient, the inverter can automatically switch the photovoltaic power supply.

High conversion efficiency of battery panel

up to 98.4% conversion efficiency can be achieved.

Automatic switching between photovoltaic and power frequency input.

Power frequency or photovoltaic power supply can be selected manually or automatically to realize 24-hour uninterrupted water supply.

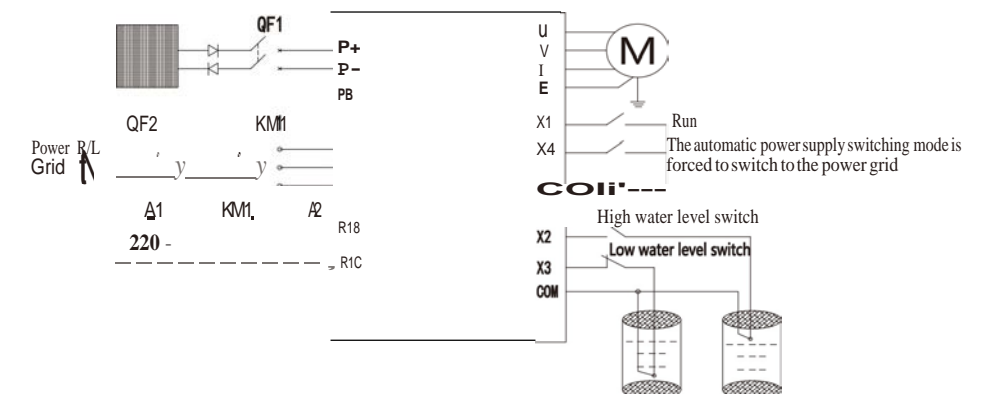
Water volume is controllable

The water level switch can be connected, and the inverter can work or stop automatically in case of water shortage or full water.

Adjustable installation system angle

Adjust the installation angle of photovoltaic panels according to different areas to achieve maximum efficiency in capturing solar energy.

PV Inverter Wiring Diagram

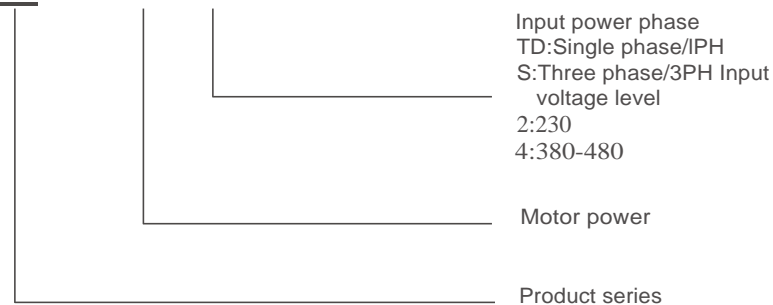


PV water supply special inverter technical parameters table

Photovoltaic water supply special inverter model	Input AC voltage	Input DC voltage	Adapted pump power	Output AC voltage	Solar Panel	
					open circuit voltage CVOC)	Power
NVFPV-0.75-D2	1PH,187V-264V	220VDC-400VDC	0.45kW(0.6HP)	3PH,220V	< 400 V	> 1 kW
NVFPV-1.5-D2	1PH,187V-264V	220VDC-400VDC	0.75kW(1 HP)	3PH,220V	< 400 V	> 2kW
NVFPV-2.2-D2	1PH,187V-264V	220VDC-400VDC	1.SkW(2HP)	3PH,220V	< 400 V	> 3kW
NVFPV-0.75-S2	3PH,187V-264V	220VDC-400VDC	0.45kW(0.6HP)	3PH,220V	< 400 V	> 1 kW
NVFPV-1.1-S2	3PH,187V-264V	22QVDC-4Q0VDC	0.75kW(1 HP)	3PH,220V	< 400 V	> 1.SkW
NVFPV-1.5-S2	3PH,187V-264V	220VDC-400VDC	1.1kW(1.4HP)	3PH,220V	< 400 V	> 2kW
NVFPV-2.2-S2	3PH,187V-264V	22QVDC-4Q0VDC	1.SkW(2HP)	3PH,220V	< 400 V	> 3kW
NVFPV-3.0-S2	3PH,187V-264V	220VDC-400VDC	2.2kW(3HP)	3PH,220V	< 400 V	> 4kW
NVFPV-0.75-S4	3PH,323V-528V	45QVDC-8Q0VDC	0.45kW(0.6HP)	3PH,380V	< 800V	> 1 kW
NVFPV-1.1-S4	3PH,323V-528V	4S0VDC-800VDC	0.75kW(1 HP)	3PH,380V	< 800V	> 1.5kW
NVFPV-1.5-S4	3PH,323V-528V	4S0VDC-800VDC	1.1kW(1.4HP)	3PH,380V	< 800V	> 2kW
NVFPV-2.2-S4	3PH,323V-528V	4S0VDC-800VDC	1.SkW(2H P)	3PH,380V	< 800V	> 3kW
NVFPV-3.0-S4	3PH,323V-528V	450VDC-800VDC	2.2kW(3HP)	3PH,380V	< 800V	> 4kW
NVFPV-4.0-S4	3PH,323V-528V	4S0VDC-800VDC	3kW(4HP)	3PH,380V	< 800V	> 5kW
NVFPV-5.5-S4	3PH,323V-528V	45QVDC-8Q0VDC	4kW(SHP)	3PH,380V	< 800V	> 7kW
NVFPV-7.5-S4	3PH,323V-528V	45QVDC-800VDC	5.SkW(7H P)	3PH,380V	< 800V	> 10kW
NVFPV-II-S4	3PH,323V-528V	45QVDC-8Q0VDC	7.SkW(10H P)	3PH,380V	< 800V	> 14kW
NVFPV-15-S4	3PH,323V-528V	45QVDC-8Q0VDC	11kW(14.5HP)	3PH,380V	< 800V	> 20kW
NVFPV-18.5-S4	3PH,323V-528V	45QVDC-8Q0VDC	15kW(20HP)	3PH,380V	< 800V	> 24k W
NVFPV-22-S4	3PH,323V-528V	45QVDC-8Q0VDC	18.SkW(24.5HP)	3PH,380V	< 800V	> 29k W
NVFPV-30-S4	3PH,323V-528V	4S0VDC-8Q0VDC	22kW(29HP)	3PH,380V	< 800V	> 39k W
NVFPV-37-S4	3PH,323V-528V	4S0VDC-8Q0VDC	3QkW(40HP)	3PH,380V	< 800V	> 4 8k W
NVFPV-45-S4	3PH,323V-528V	4S0VDC-8Q0VDC	37kW(49HP)	3PH,380V	< 800V	> 59kW

Photovoltaic water supply special inverter model description

NVFPV - 1.5 - S4



Selection Instructions

220V Series, Input AC 187V-264V (1PH), Input DC 220VDC-400VDC; 380V Series, Input AC 323V-528V (3PH), Input DC 450VDC-800VDC; If the input voltage is exceeded, the inverter reports the fault as overvoltage. Lower than the input voltage value, the inverter reported the fault as undervoltage. The matched photovoltaic panel power is greater than 1.3 times the rated power of the inverter.

The area of a single photovoltaic panel is larger, and the cost of the same power configuration is lower. It is recommended to select SS0V/50.1V battery panel. Grid-connected panels and off-grid panels can be selected. If the power need to be feedback to the power grid, it is necessary to choose the grid-connected panels. For the agricultural irrigation, off-grid panels are preferred.

In order to reduce the system investment cost, the pump with power less than or equal to 1.SkW can choose 220V voltage level, and the pump with power greater than 1.SkW should choose 380V voltage level.

The power of inverter should be selected one gear higher than the water pump to ensure the normal operation of water pump. PV water supply dedicated inverter power greater than 45kW selection needs to be non-standard customized



Mode of power supply	Photovoltaic power supply
	Automatic switching mode between power frequency and photovoltaic power supply (photovoltaic power supply is preferred)
Range of input voltage	220V series , 250V-350VDC
	380V series , 450V-750VDC
Power range	380V : 0.75kW-45kW
	220V: 0.75kW-2.2kW
Regulating mode of output frequency	Under the general inverter mode, meeting the combination setting of multiple frequency sources (including 4-2QmA feedback signal)
	In the special mode of photovoltaic water pump, the output frequency can be adjusted automatically
Control modes	V/F control, SVC vector control
Overload capacity	under the 150% rated current condition
Starting torque	0.5H z/150%(5 VC)
V/F curve	Linear type, Multipoint type, Nth power type
Working environment	Temperature : -10 °C - 50 °C Humidity, <95%RH
Communication function	Built-in RS-485
Special function	Maximum power point tracking
Matching load	Load capacity of power equipment 5C apacity of photovoltaic panel power supply

02

Photovoltaic AC pump technology selection



Photovoltaic water pump



Solar module deep-well pump

Technical parameters of submersible pump

- Input voltage: 220V±5(<2.2KW) ; 380V±5(>2.2KW) ;
- Capacity: 5.6 ~ 480m³/h ;
- Head : 4~65m ;
- Phreatic depth <20m
- Medium temperature: T ≤40°C ;
- Medium consistency: ≤1.1×10³kg/m³;
- Medium PH scope: 5~9 ;
- Motor insulation class: IPX8 。

Technical parameters of Deep-well pump

- Input voltage: 220V±5(<2.2KW) ; 380V±5(>2.2KW) ;
- Capacity: 4 ~ 40m³/h ;
- Head : 15~422m ;
- Phreatic depth <20m
- Medium temperature: T ≤40°C ;
- The volume ratio of impurities in the medium is not more than 0.1%, and the particle size is not more than 0.2mm ; Medium PH scope : 5~9;

Selection of photovoltaic land water pump

Selection of photovoltaic submersible pump

Photovoltaic pump model (Submersible pump)	Capacity Cm ³ /h	Head(m)	Power(kw)
50WQ10101	10	10	0.75kW
50WQ15151	15	15	1.5kW
65WQ25715	25	7	1.5kW
50WQ11091	28	22	4kW
65WQ11111	40	20	4kW
50WQ11061	28	40	7.5kW
65WQ11081	40	30	7.5kW
65WQ11061	35	45	11kW
100WQ1101A	60	30	11kW
100WQ11091	75	45	18.5kW
150WQ12131	160	20	18.5kW

Selection of Deep-well pump

Photovoltaic pump model (Submersible pump)	Capacity Cm ³ /h	Head(m)	Power(kw)
100QJY4-47 /9-0.75K3	4	47	0.75kW
100QJY6-54/10-1.5K3	6	54	1.5kW
125QJY8-53/7-1.5K3	8	53	1.5kW
100QJY10-47 /9-2.2K3	10	47	2.2kW
125QJY8-68/9-2.2K3	8	68	2.2kW
100QJ Y10-80/15-4K 3	10	15	4kW
125QJY15-70/11-4K3	15	70	4kW
100QJY10-103/19-5.SK3	10	103	5.5kW
125QJ Y15-95/15-5.5K 3	15	95	5.5kW
100QJY10-123/24-7.SK3	10	123	7.5kW
125QJY15-130/20-7.5K3	15	130	7.5kW
125QJY8-312/39-11K3	8	312	11kW
125QJY25-106/18-11K3	25	135	11kW
125QJY8-422/53-15K3	8	422	15kW
125QJY25-135/24-15K3	25	135	15kW

NOTE

03

Photovoltaic DC
pump water supply
system introduction

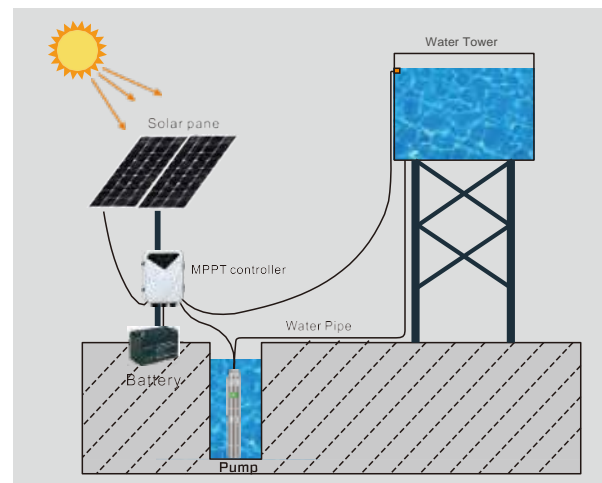
SOLAR PUMP
PROFESSIONAL SOLAR PUMP
MANUFACTURER



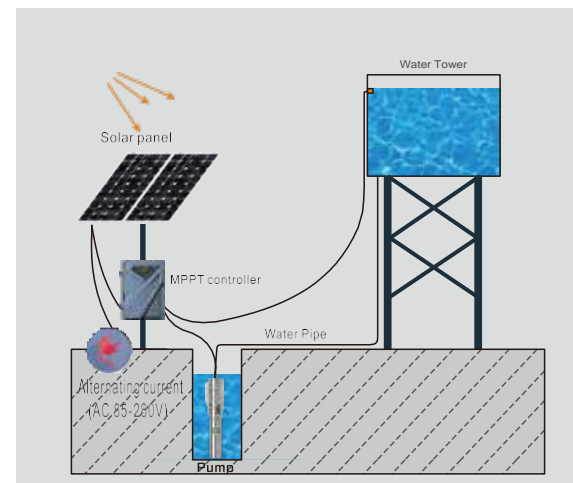
Performance Range

Flow: 0- 20m³ / h
 Head: 14-180m Power:
 0.2kW-2.2kW

System Chart

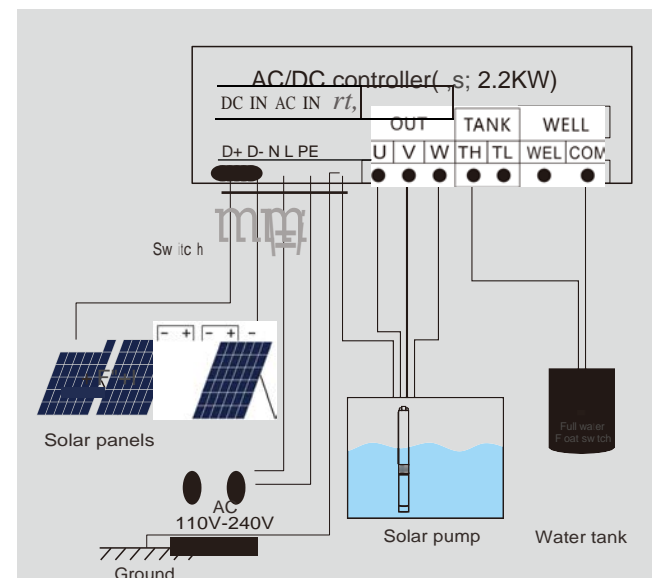
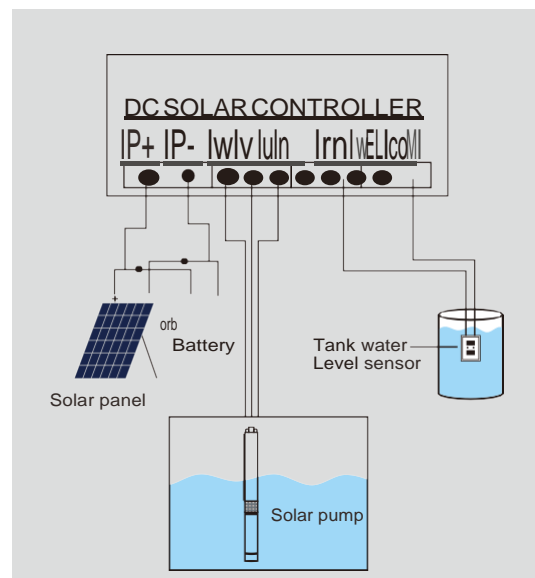


DC System Chart



AC/DC System Chart

Wiring Diagram



Application field

- Farm animal husbandry
- Household water supply
- Agricultural irrigation
- Garden irrigation

Photovoltaic DC pump model description

(1)DQB3-65-72-750-A/D

D Stands for our company name
QB Stands for Solar floor pump
3 Means the pump has a maximum flow rate of 3 cubic meters per hour
65 Means that the maximum lift of the pump is 65 meters
72 Indicates that the voltage of the pump is 72VDC
750 Means that the power of the pump is 750W
A/D Indicates input AC/DC power supply

(2)3DPC3-35-24-300-A/D

3 Indicates that the pump body size is 3 inches
D Stands for our company name
P Stands for the first letter of Plastic, indicating that the impeller of the pump is made of plastic
C Stands for Centrifugal pump **3** Means the pump has a maximum flow rate of 3 cubic meters per hour
35 Means that the maximum lift of the pump is 35 meters
24 Indicates that the voltage of the pump is 24VDC
300 Means that the power of the pump is 300W
A/D Indicates input AC/DC power supply

(3)DLP20-19-72-900-A/D

D Stands for our company name
LP It stands for Solar pool pump
20 Means the pump has a maximum flow rate of 20 cubic meters per hour
19 Means that the maximum lift of the pump is 19 meters
72 Indicates that the voltage of the pump is 72VDC
900 Means that the power of the pump is 900W
A/D Indicates input AC/DC power supply



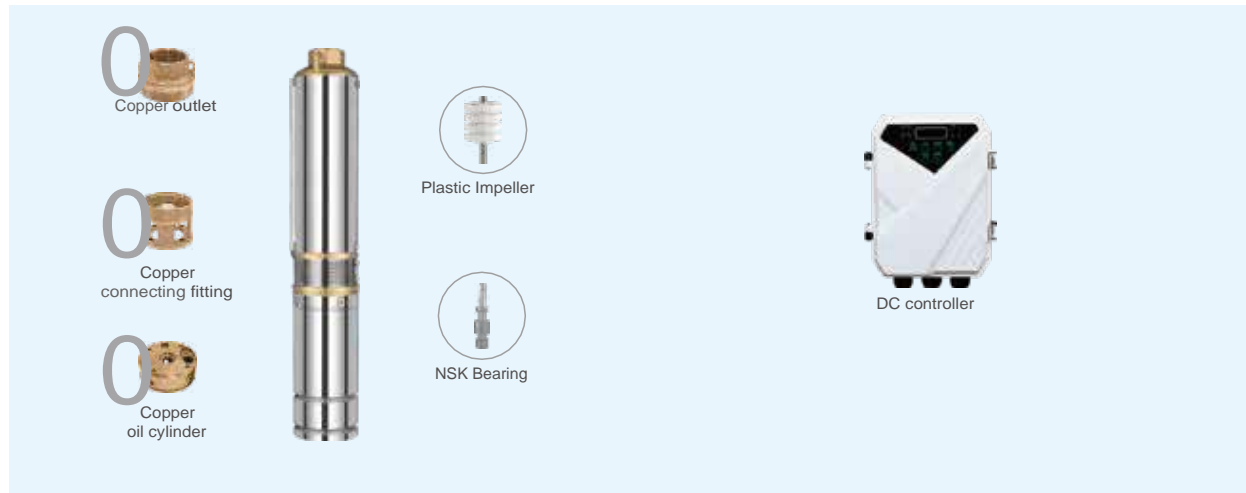
Controller

Mode of power supply	Photovoltaic power supply
	Automatic switching mode between power frequency and photovoltaic power supply (photovoltaic power supply is preferred)
Range of input voltage	DC series: 24V-210VDC
	AC/DC series : AC 85V-280V,DC 80VDC-430VDC
Power range	DC series : 0.2kW- 1. SkW
	AC/DC series : 0.7SkW-2.2kW
Regulating mode of output frequency	In the special mode of photovoltaic water pump, The output frequency and motor speed can be automatically adjusted
Working environment	Temperature : -15°(- 60°(Humidity : <95%RH
Class of protection	IPSS
Special function	Maximum power point tracking
Protection function	Output phase loss protection, Overcurrent protection, Overvoltage protection, Undervoltage protection, Overheat protection, Overload protection, Underload protection, Weak light protection, etc
Communication interface	Water level control interface:TH TL, WE,L COM Communication interface: RS485(need to be customized)

Direct Current Pump

Deep well pump wading depth	Plasticimpeller: 30 m SUSimpeller : 35 m
DC pump motor type	DC permanent magnet brushless synchronous motor
Pump working environment	0-40°((Deep-well pump)
Deep well pump service conditions (water)	Max. ambient temperature< 40°C;Maximum permissible quantity of sand:1Q0g/m ³ ;Hydrogen sulfide content up to 1.Smg/L, chloride ion content up to 400mgjl; medium pH between 6.5 and 8.5;
Class of protection	IP68 (Deep-well pump)
Type of DC pump	Deep well pump,Onshore pump,Swimming pool pump

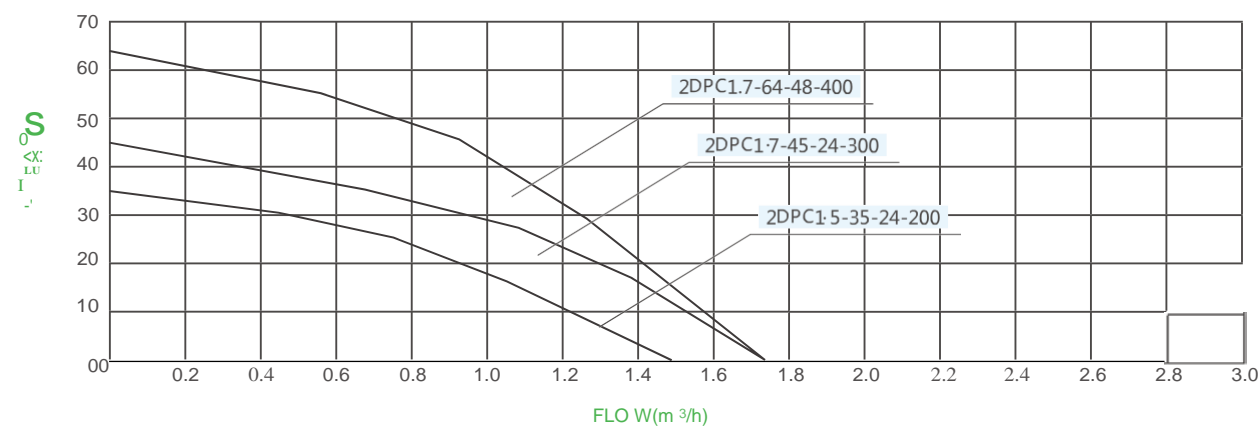
2DPC 2" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
2DPC1.5-35-24-200	24V	30V-48V	200W	1.5m ³ /h	35m	0.75"	2m	<55V	? 1.3*PUMPPOWER
2DPC1.7-45-24-300	24V	30V-48V	300W	1.7m ³ /h	45m	0.75"	2m	<55V	? 1.3*PUMPPOWER
2DPC1.7-64-48-400	48V	60V-90V	400W	1.7m ³ /h	64m	0.75"	2m	<105V	? 1.3*PUMPPOWER

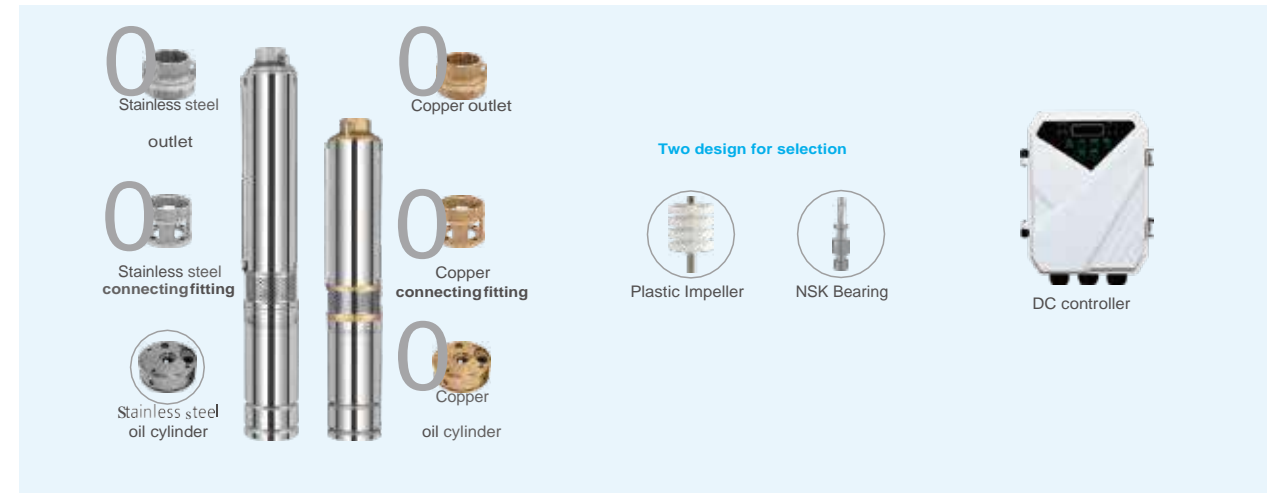
HYDRAULIC PERFORMANCE CURVES



FREE SPAREPARTS



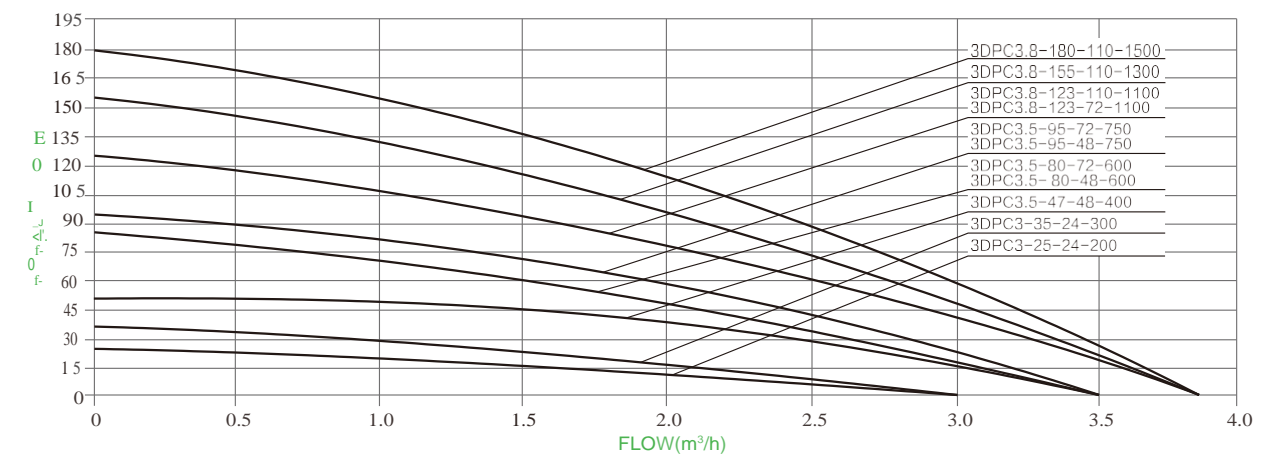
3DPC 3" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DPC3-25-24-200	24V	30V-48V	200W	3.0m ³ /h	25m	1.25"	2m	<55V	? 1.3*PUMPPOWER
3DPC3-35-24-300	24V	30V-48V	300W	3.0m ³ /h	35m	1.25"	2m	<55V	? 1.3*PUMPPOWER
3DPC3.5-47-48-400	48V	60V-90V	400W	3.5m ³ /h	47m	1.25"	2m	<105V	? 1.3*PUMPPOWER
3DPC3.5-80-48-600	48V	60V-90V	600W	3.5m ³ /h	80m	1.25"	2m	<105V	? 1.3*PUMPPOWER
3DPC3.5-80-72-600	72V	90V-120V	600W	3.5m ³ /h	80m	1.25"	2m	<160V	? 1.3*PUMPPOWER
3DPC3.5-95-48-750	48V	60V-90V	750W	3.5m ³ /h	95m	1.25"	2m	<105V	? 1.3*PUMPPOWER
3DPC3.5-95-72-750	72V	90V-120V	750W	3.5m ³ /h	95m	1.25"	2m	<160V	? 1.3*PUMPPOWER
3DPC3.8-123-72-1100	72V	90V-120V	1100W	3.8m ³ /h	123m	1.25"	2m	<160V	? 1.3*PUMPPOWER
3DPC3.8-123-110-1100	110V	110V-150V	1100W	3.8m ³ /h	123m	1.25"	2m	<210V	? 1.3*PUMPPOWER
3DPC3.8-155-110-1300	110V	110V-150V	1300W	3.8m ³ /h	155m	1.25"	2m	<210V	? 1.3*PUMPPOWER
3DPC3.8-180-110-1500	110V	110V-150V	1500W	3.8m ³ /h	180m	1.25"	2m	<210V	? 1.3*PUMPPOWER

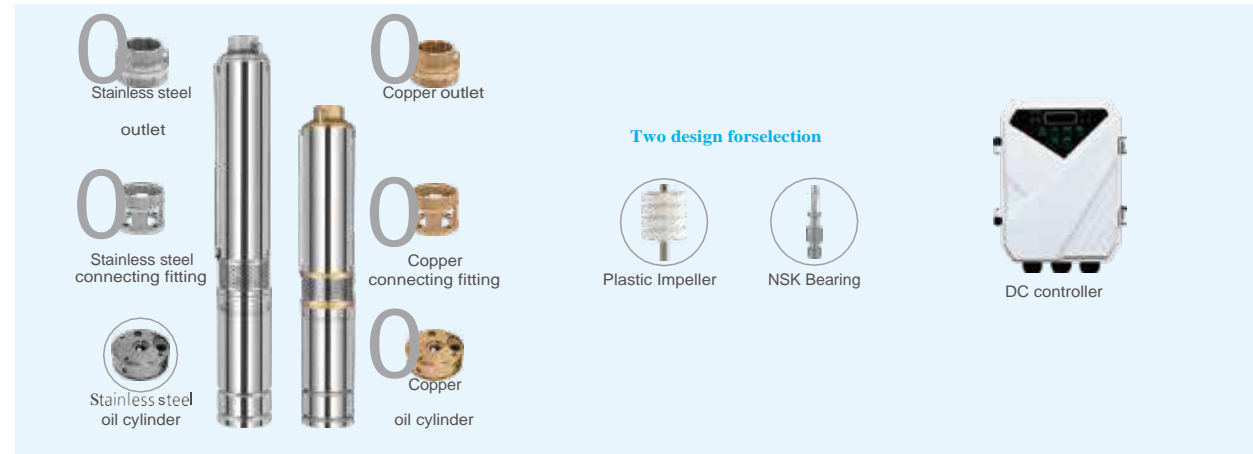
HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



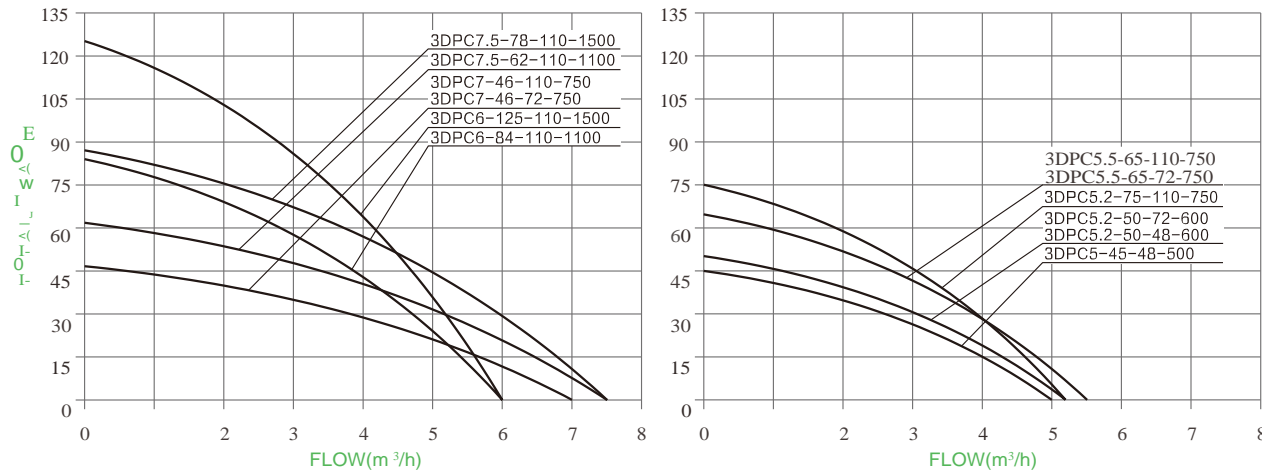
3DPC 3" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



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	soow	sm,jh	45m	1.5"	2m	<105V	?: 1.3"PUMPPOWER
3DPC5.2-50-48-600	48V	60V-90V	600W	5.2m ³ /h	50m	1.5"	2m	<105V	?: 1.3"PUMPPOWER
3DPC5.2-50-72-600	72V	90V-120V	600W	5.2m ³ /h	50m	1.5"	2m	<160V	?: 1.3"PUMPPOWER
3DPC5.2-75-110-750	110V	110V-150V	750W	5.2m ³ /h	75m	1.5"	2m	<210V	?: 1.3"PUMPPOWER
3DPC5.5-65-72-750	72V	90V-120V	750W	s.sm,jh	65m	1.5"	2m	<160V	?: 1.3"PUMPPOWER
3DPC5.5-65-110-750	110V	110V-150V	750W	s.sm,fh	65m	1.5"	2m	<210V	?: 1.3"PUMPPOWER
3DPC6-84-110-1100	110V	110V-150V	1100W	5m,jh	84m	1.5"	2m	<210V	?: 1.3"PUMPPOWER
3DPC6-125-110-1500	110V	110V-150V	1500W	6m ³ /h	125m	1.5"	2m	<210V	?: 1.3"PUMPPOWER
3DPC7-46-72-750	72V	90V-120V	750W	7m ³ /h	46m	1.5"	2m	<160V	?: 1.3"PUMPPOWER
3DPC7-46-110-750	110V	110V-150V	750W	7m,jh	46m	1.5"	2m	<210V	?: 1.3"PUMPPOWER
3DPC7.5-62-110-1100	110V	110V-150V	1100W	7.5m ³ /h	62m	1.5"	2m	<210V	?: 1.3"PUMPPOWER
3DPC7.5-78-110-1500	110V	110V-150V	1500W	7.5m ³ /h	78m	1.5"	2m	<210V	?: 1.3"PUMPPOWER

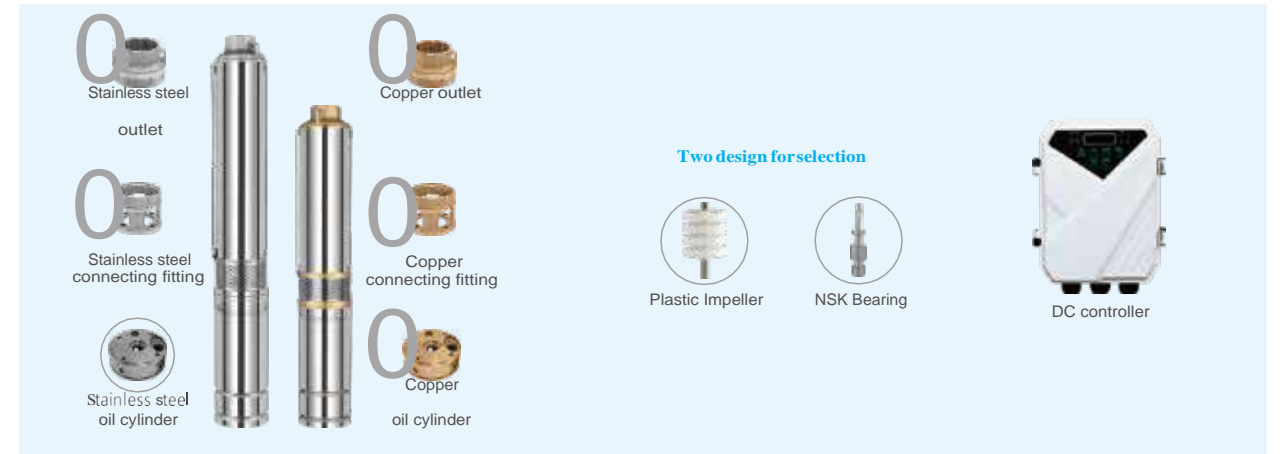
HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



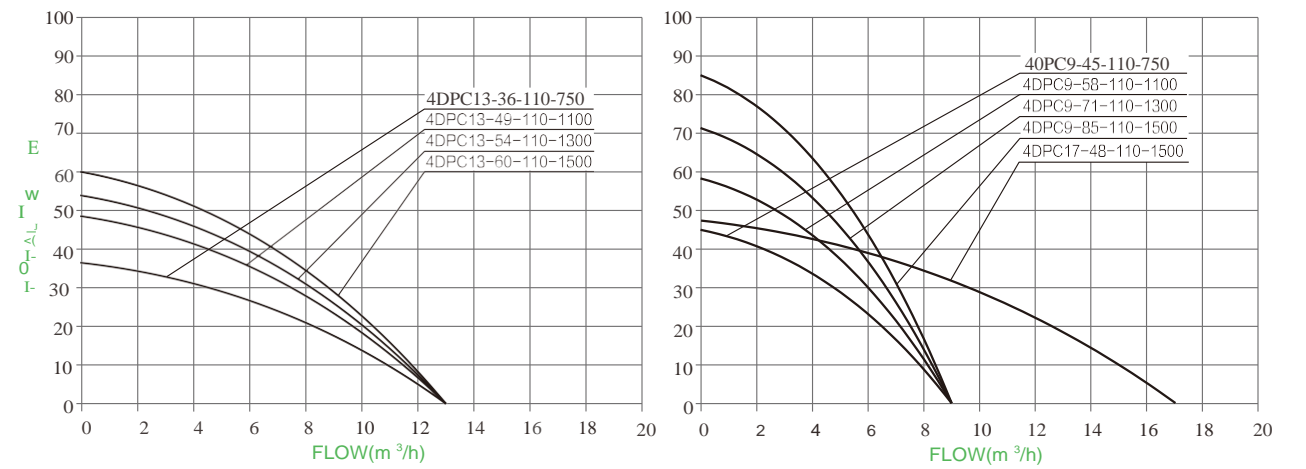
4DPC 4" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC9-45-110-750	110V	110V-150V	750W	9.Qm ³ /h	45m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC9-58-110-1100	110V	110V-150V	1100W	9.0m ³ /h	58m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC9-71-110-1300	110V	110V-150V	1300W	9.0m ³ /h	71m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC9-85-110-1500	110V	110V-150V	1500W	9.Qm ³ /h	85m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC13-36-110-750	110V	110V-150V	750W	13m ³ /h	36m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC13-49-110-1100	110V	110V-150V	1100W	13majh	49m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC13-54-110-1300	110V	110V-150V	1300W	13majh	54m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC13-60-110-1500	110V	110V-150V	1500W	13m ³ /h	60m	2"	2m	<210V	?: 1.3"PUMPPOWER
4DPC17-48-110-1500	110V	110V-150V	1500W	17m ³ /h	48m	2"	2m	<210V	?: 1.3"PUMPPOWER

HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



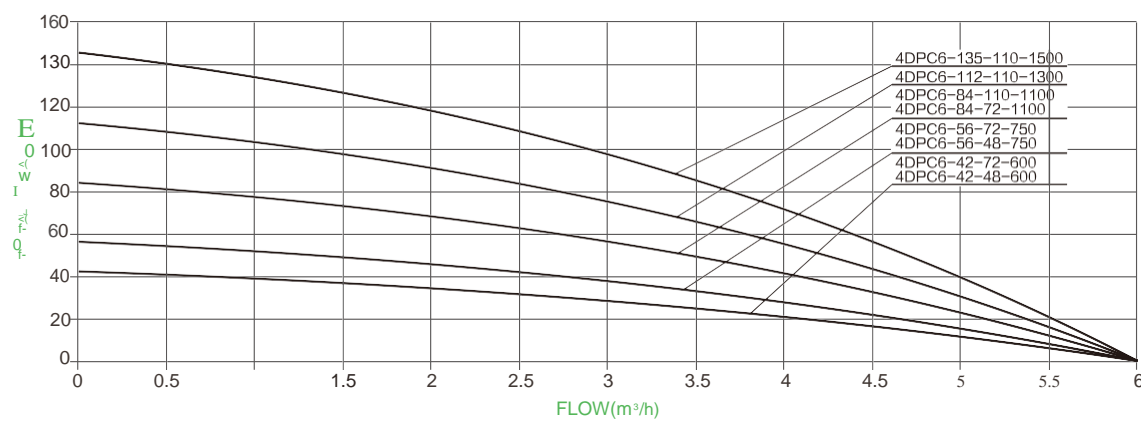
4DPC 4" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC6-42-48-600	48V	60V-90V	600W	6.0m ³ /h	42m	1.25"	2m	<105V	1.3"PUMPPOWER
4DPC6-42-72-600	72V	90V-120V	600W	6.0m ³ /h	42m	1.25"	2m	<160V	1.3"PUMPPOWER
4DPC6-56-48-750	48V	60V-90V	750W	6.0m ³ /h	56m	1.25"	2m	<105V	1.3"PUMPPOWER
4DPC6-56-72-750	72V	90V-120V	750W	6.0m ³ /h	56m	1.25"	2m	<160V	1.3"PUMPPOWER
4DPC6-84-72-1100	72V	90V-120V	1100W	6.0m ³ /h	84m	1.25"	2m	<160V	1.3"PUMPPOWER
4DPC6-84-110-1100	110V	110V-150V	1100W	6.0m ³ /h	84m	1.25"	2m	<210V	1.3"PUMPPOWER
4DPC6-112-110-1300	110V	110V-150V	1300W	6.0m ³ /h	112m	1.25"	2m	<210V	1.3"PUMPPOWER
4DPC6-135-110-1500	110V	110V-150V	1500W	6.0m ³ /h	135m	1.25"	2m	<210V	1.3"PUMPPOWER

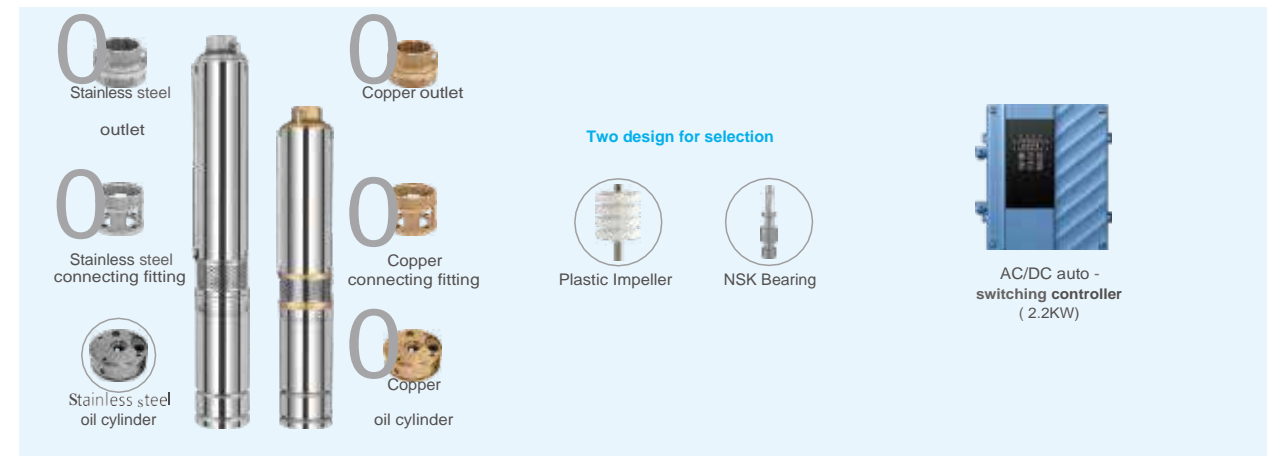
HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



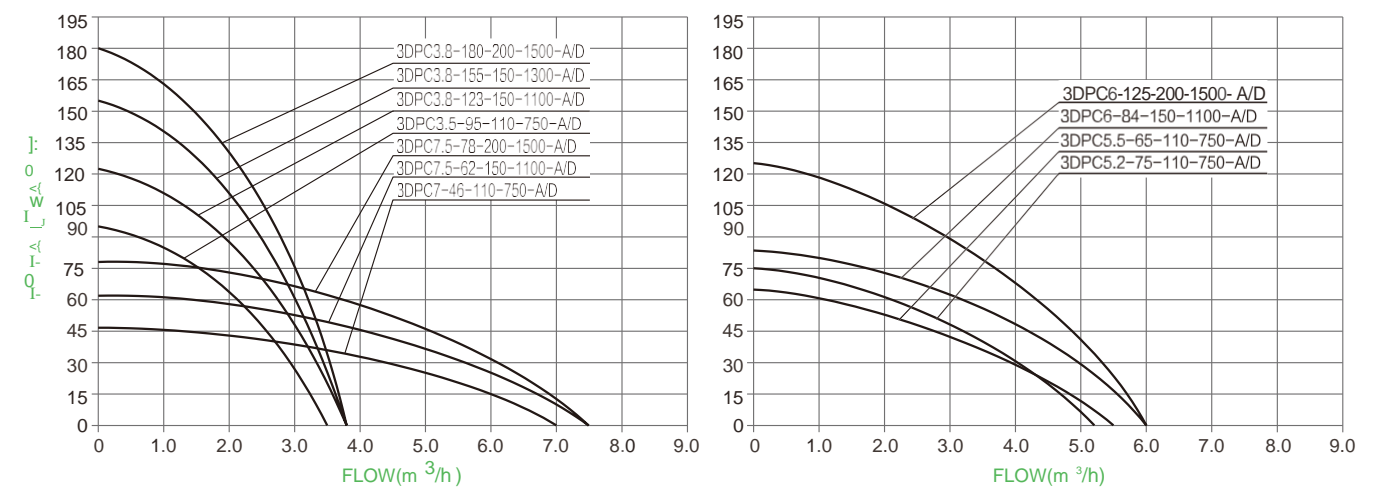
3DPC-A/D 3" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DPC3.5-95-110-750-A/D	85-280V	80V-430V	750W	3.5m ³ /h	95m	1.25"	2m	<430V	1.3"PUMPPOWER
3DPC3.8-123-150-1100-A/D	85-280V	80V-430V	1100W	3.8m ³ /h	123m	1.25"	2m	<430V	1.3"PUMPPOWER
3DPC3.8-155-150-1300-A/D	85-280V	80V-430V	1300W	3.8m ³ /h	155m	1.25"	2m	<430V	1.3"PUMPPOWER
3DPC3.8-180-200-1500-A/D	85-280V	80V-430V	1500W	3.8m ³ /h	180m	1.25"	2m	<430V	1.3"PUMPPOWER
3DPC5.2-75-110-750-A/D	85-280V	80V-430V	750W	5.2m ³ /h	75m	1.5"	2m	<430V	1.3"PUMPPOWER
3DPC5.5-65-110-750-A/D	85-280V	80V-430V	750W	5.5m ³ /h	65m	1.5"	2m	<430V	1.3"PUMPPOWER
3DPC6-84-150-1100-A/D	85-280V	80V-430V	1100W	6m ³ /h	84m	1.5"	2m	<430V	1.3"PUMPPOWER
3DPC6-125-200-1500-A/D	85-280V	80V-430V	1500W	6m ³ /h	125m	1.5"	2m	<430V	1.3"PUMPPOWER
3DPC7-46-110-750-A/D	85-280V	80V-430V	750W	7m ³ /h	46m	1.5"	2m	<430V	1.3"PUMPPOWER
3DPC7.5-62-150-1100-A/D	85-280V	80V-430V	1100W	7.5m ³ /h	62m	1.5"	2m	<430V	1.3"PUMPPOWER
3DPC7.5-78-200-1500-A/D	85-280V	80V-430V	1500W	7.5m ³ /h	78m	1.5"	2m	<430V	1.3"PUMPPOWER

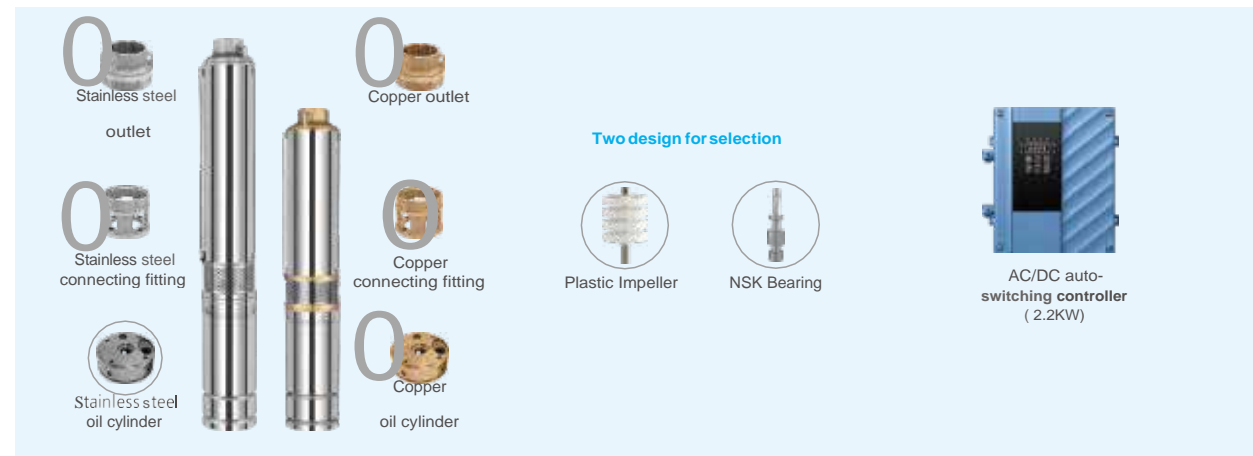
HYDRAULIC PERFORMANCE CURVES



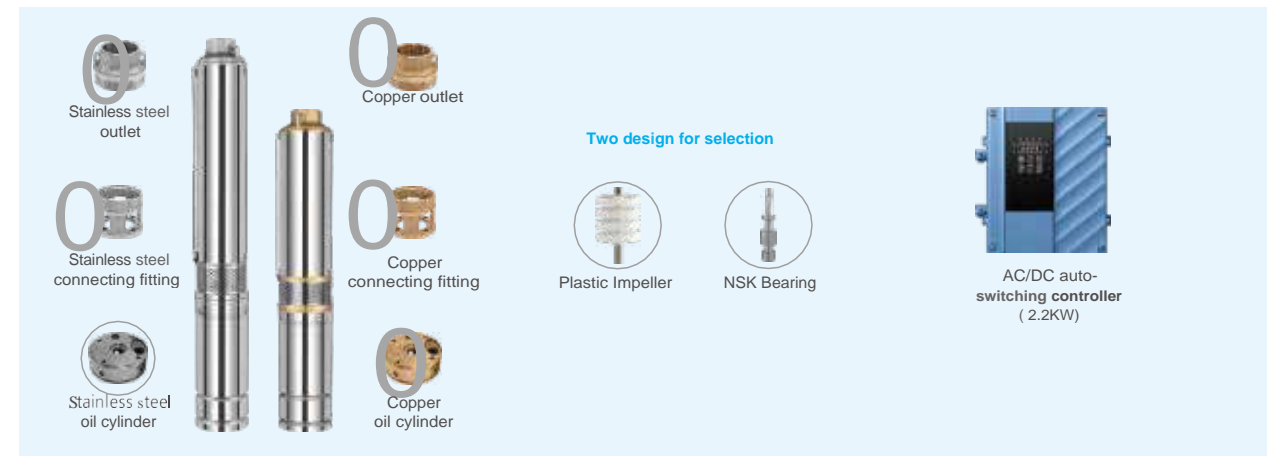
FREE SPARE PARTS



4DPC-A/D 4" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



4DPC-A/D 4" AC/DC & WIND VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



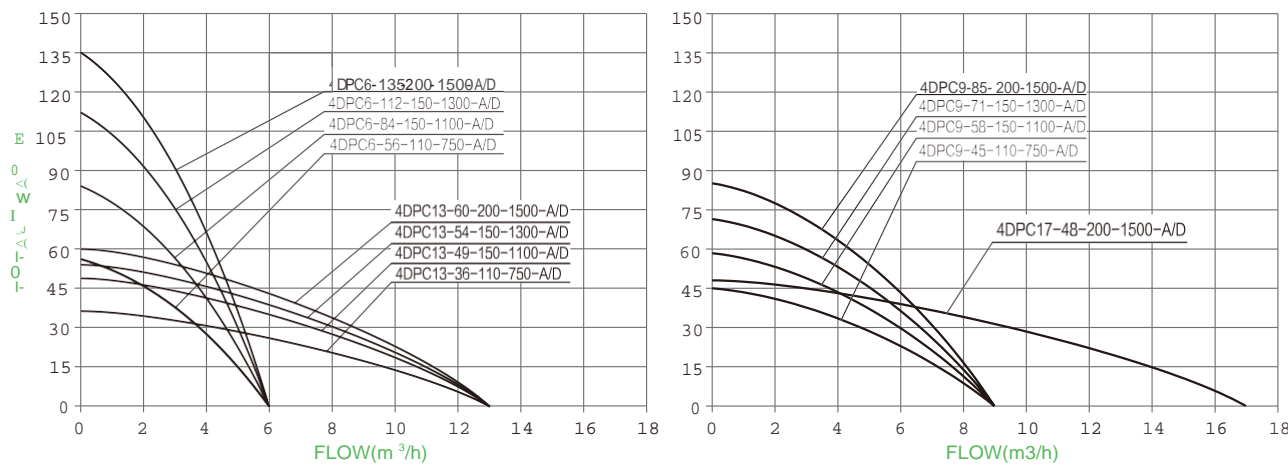
TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC6-56-110-750-A/D	85V-280V	80V-430V	750W	6m ³ /h	56m	1.25"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC6-84-150-1100-A/D	85V-280V	80V-430V	1100W	6m ³ /h	84m	1.25"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC6-112-150-1300-A/D	85V-280V	80V-430V	1300W	6m ³ /h	112m	1.25"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC6-135-200-1500-A/D	85V-280V	80V-430V	1500W	6m ³ /h	135m	1.25"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC9-45-110-750-A/D	85V-280V	80V-430V	750W	9m ³ /h	45m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC9-58-150-1100-A/D	85V-280V	80V-430V	1100W	9m ³ /h	58m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC9-71-150-1300-A/D	85V-280V	80V-430V	1300W	9m ³ /h	71m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC9-85-200-1500-A/D	85V-280V	80V-430V	1500W	9m ³ /h	85m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC13-36-110-750-A/D	85V-280V	80V-430V	750W	13m ³ /h	36m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC13-49-150-1100-A/D	85V-280V	80V-430V	1100W	13m ³ /h	49m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC13-54-150-1300-A/D	85V-280V	80V-430V	1300W	13m ³ /h	54m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC13-60-200-1500-A/D	85V-280V	80V-430V	1500W	13m ³ /h	60m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC17-48-200-1500-A/D	85V-280V	80V-430V	1500W	17m ³ /h	48m	2"	2m	<430V	

TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC6-175-300-2200-A/D	85V-280V	80V-430V	2200W	6m ³ /h	175m	1.25"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC9.5-125-300-2200-A/D	85V-280V	80V-430V	2200W	9.5m ³ /h	125m	2"	2m	<430V	∴ 1.3"PUMPPOWER
4DPC13-110-300-2200-A/D	85V-280V	80V-430V	2200W	13m ³ /h	110m	2"	2m	<430V	∴ 1.3"PUMPPOWER

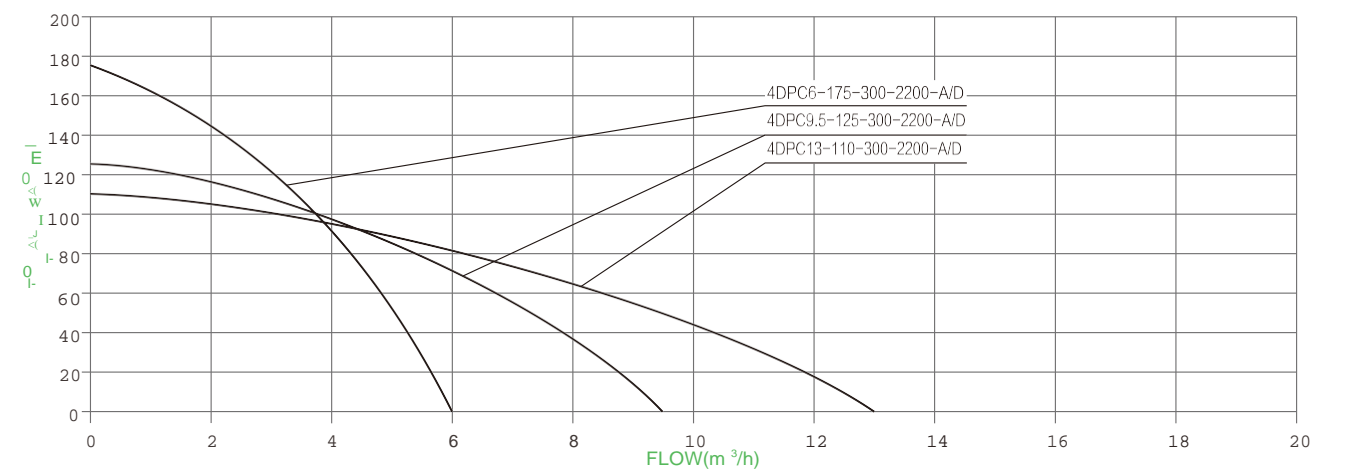
HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



**DCPM/DCPM-A/D
DC & AC/DC BRUSHLESS SOLAR GROUND INTEGRATED PUMP**

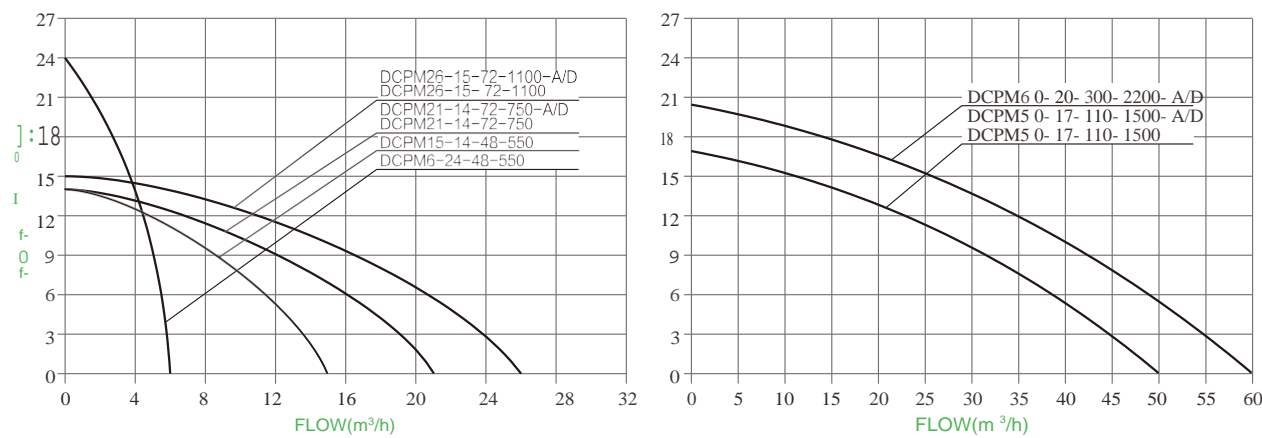


TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DCPM 6-24-48-550	48V	60V-90V	ssow	6m ³ /h	24m	1"	0.6m	<IOSV	? : 1.3"PUMPPOWER
DCPM 15-14-48-550	48V	60V-90V	ssow	15m ³ /h	14m	1.5"	0.6m	<IOSV	? : 1.3"PUMPPOWER
DCPM21-14-72-750	72V	90V-120V	750W	21m ³ /h	14m	2"	0.6m	<160V	? : 1.3"PUMPPOWER
DCPM26-15-72-1100	72V	90V-120V	1100W	26m ³ /h	15m	2"	0.6m	<160V	? : 1.3"PUMPPOWER
DCPM 50-17-110-1500	110V	110V-ISOV	ISOOW	50m ³ /h	17m	3"	0.6m	<210V	? : 1.3"PUMPPOWER

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DCPM 21-14-72-750-A/D	85V-280V	80V-430V	750W	21m ³ /h	14m	2"	0.6m	<430V	? : 1.3"PUMP POWER
DCPM 26-14-72-1100-A/D	85V-280V	80V-430V	1100W	26m ³ /h	14m	2"	0.6m	<430V	? : 1.3"PUMP POWER
DCPM 50-17-110-1500-A/D	85V-280V	80V-430V	ISOOW	50m ³ /h	17m	3"	0.6m	<430V	? : 1.3"PUMP POWER
DCPM 60-20-300-2200-A/D	85V-280V	80V-430V	2200W	60m ³ /h	20m	4"	0.6m	<430V	? : 1.3"PUMPPOWER

HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



**DQB/DQB-A/D DZB/DZB-A/D
DC AND AC/DC BRUSHLESS SURFACE SOLAR PUMP**

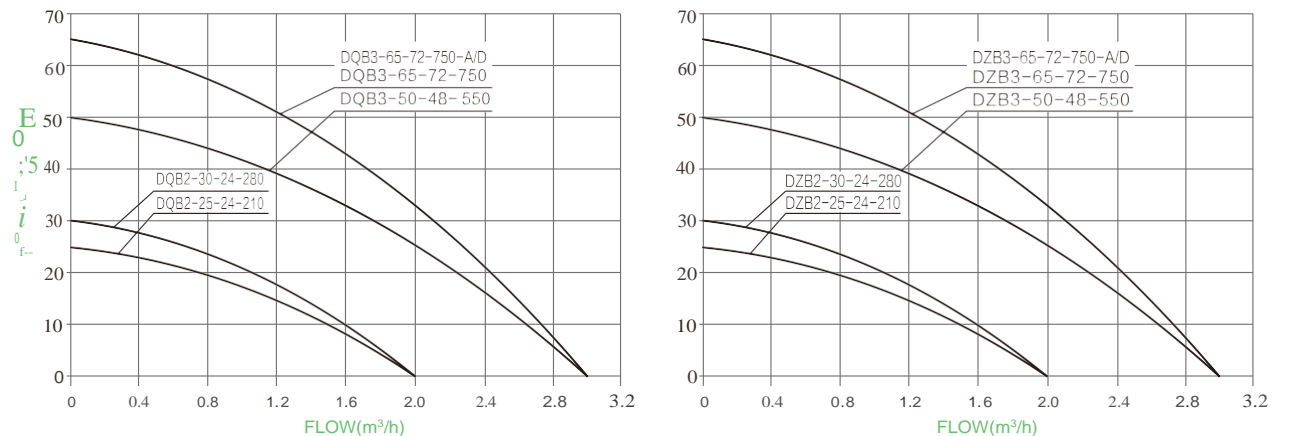


TECHNICAL DATA

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 ³ /h	25m	1x1"	2m	<SSV	? : 1.3"PUMPPOWER
DQB2-30-24-280	24V	30V-48V	280W	2m ³ /h	30m	1x1"	2m	<SSV	? : 1.3"PUMPPOWER
DQB3-50-48-550	48V	60V-90V	ssow	3m ³ /h	50m	1x1"	2m	<IOSV	? : 1.3"PUMPPOWER
DQB3-65-72-750	72V	90V-120V	750W	3m ³ /h	65m	1x1"	2m	<160V	? : 1.3"PUMPPOWER
DQB3-65-72-750-A/D	80V-280V	80V-430V	750W	3m ³ /h	65m	1x1"	2m	<430V	? : 1.3"PUMPPOWER

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 ³ /h	25m	1x1"	2m	<SSV	? : 1.3"PUMPPOWER
DZB2-30-24-280	24V	30V-48V	280W	2m ³ /h	30m	1x1"	2m	<SSV	? : 1.3"PUMPPOWER
DZB 3-50-48-550	48V	60V-90V	ssow	3m ³ /h	50m	1x1"	2m	<IOSV	? : 1.3"PUMPPOWER
DZB3-65-72-750	72V	90V-120V	750W	3m ³ /h	65m	1x1"	2m	<160V	? : 1.3"PUMPPOWER

HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



NOTE

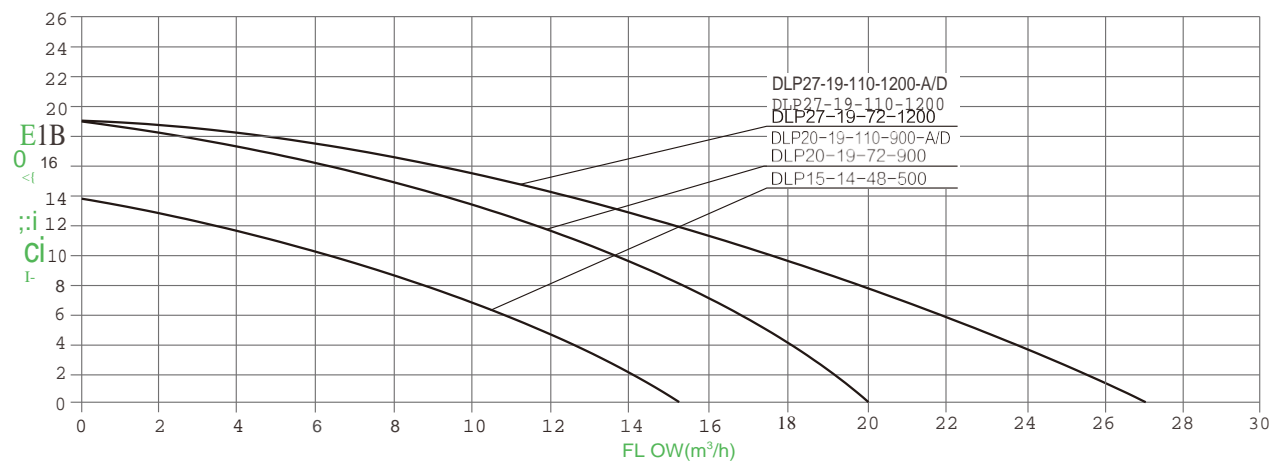


TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DLPIS-14-48-500	48V	60V-90V	500W	15m³/h	14m	2X2"	2m	< 105V	1.3PUMPPOWER
DLP 20-19-72-900	72V	90V-120V	900W	20m³/h	19m	2X2"	2m	< 160V	1.3PUMPPOWER
DLP27-19-72-1200	72V	90V-120V	1200W	27m³/h	19m	3X3"	2m	< 160V	1.3PUMPPOWER
DLP27-19-110-1200	110V	110V-150V	1200W	27m³/h	19m	3X3"	2m	< 210V	1.3PUMPPOWER

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DLP20-19-72-900-A / D	8SV-280V	80V-430V	900W	20m³/h	19m	2X2"	2m	< 430V	1.3PUMPPOWER
DLP27-19-72-1200-A/D	8SV-280V	80V-430V	1200W	27m³/h	19m	3X3"	2m	< 430V	1.3PUMPPOWER

HYDRAULIC PERFORMANCE CURVES



FREE SPARE PARTS



04

Introduction to photovoltaic system accessories

Introduction to photovoltaic system accessories



Overflow sensor CAT35-3-U6)

- The power supply adopts IQV voltage, and the input signal is analog.
- The sensor head of the sensor is stainless steel 316. The sensor head signal leads to the frequency conversion control box, and the lead length is less than 100m.
- It is used for water tower or water storage tank. When the water level reaches the limit value, the sensor head is sent to the signal converter, which controls the water pump to start by software.



Photovoltaic support - galvanized steel

- Size of cables: 4 mm²
- Protection degree: IP67
- Rated current : 40A
- Rated voltage : 1500 VDC
- Temperature range : -40°(- 85°(
- Standard: IEC6 2852:2014



Photovoltaic support - galvanized steel

- Size of cables : 2.5/4.0/6 .Qmm²
- Protection degree: Black/red protection
- Rated current : Tinned copper stranded wire
- Rated voltage : 40A/55A/70A
- Rated voltage : 1500V DC
- Temperature range : -40°(-120°(

