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**Sample photovoltaic water supply system**

## Directory

### **P03-06**

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Photovoltaic water supply special inverter introduction

### **P07-12**

---

Photovoltaic AC pump technology selection

### **P13-16**

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Photovoltaic DC pump water supply system introduction

### **P17-22**

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Photovoltaic system accessories



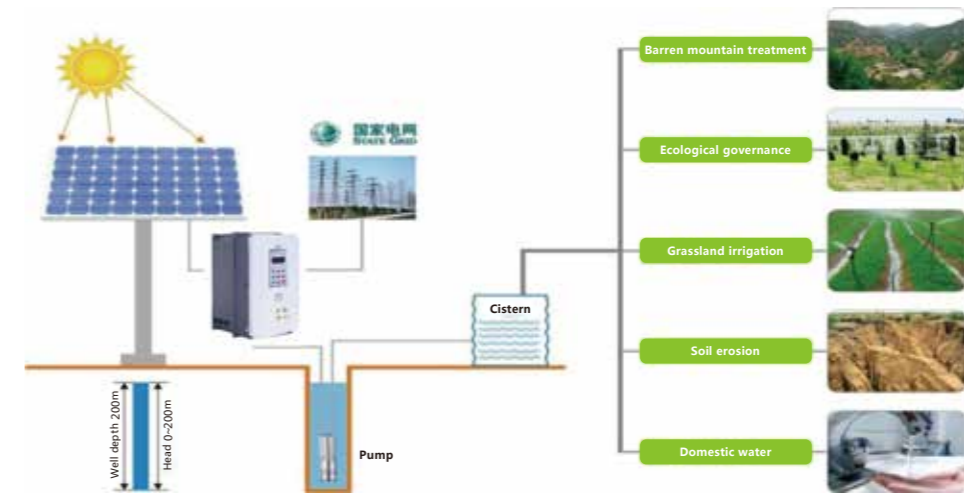
# 01

## Photovoltaic water supply special inverter introduction



### Photovoltaic Frequency Conversion water supply System

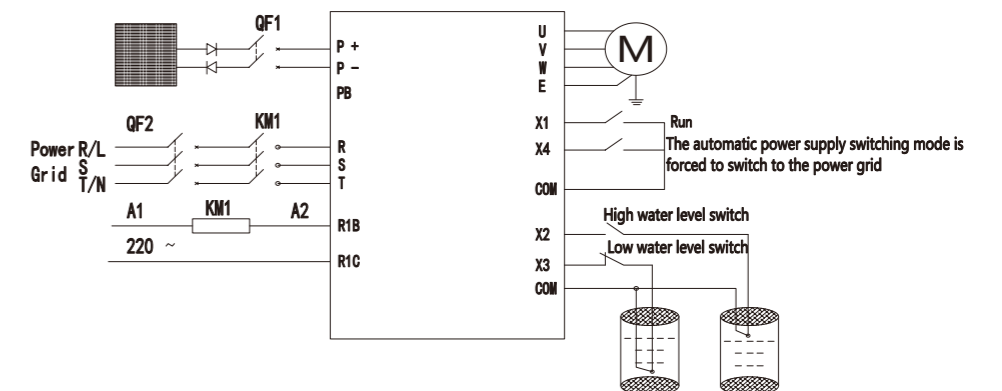
The water supply system of the solar photovoltaic water pump includes solar modules, photovoltaic inverter, water pump, ground installation system and accessories.



#### 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.
- 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.
- Internal energy-saving mode**  
When the sun is sufficient, the inverter can automatically switch the photovoltaic power 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.
- High conversion efficiency of battery panel**  
up to 98.4% conversion efficiency can be achieved.
- Adjustable installation system angle**  
Adjust the installation angle of photovoltaic panels according to different areas to achieve maximum efficiency in capturing solar energy.

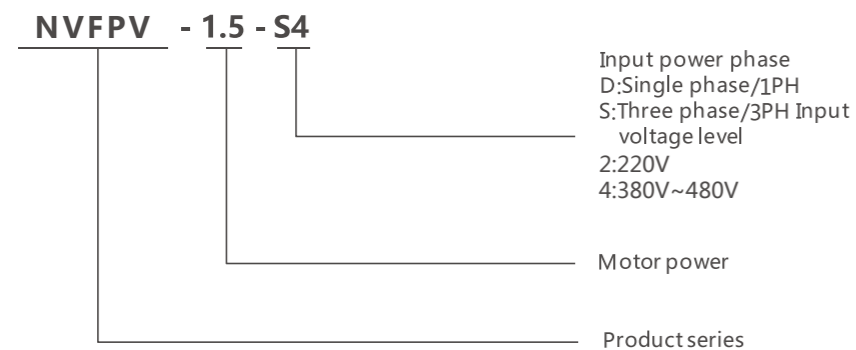
#### PV Inverter Wiring Diagram



### 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 (VOC)	Power
NVFPV-0.75-D2	1PH,187V~264V	220VDC~400VDC	0.45kW(0.6HP)	3PH,220V	< 400V	> 1kW
NVFPV-1.5-D2	1PH,187V~264V	220VDC~400VDC	0.75kW(1HP)	3PH,220V	< 400V	> 2kW
NVFPV-2.2-D2	1PH,187V~264V	220VDC~400VDC	1.5kW(2HP)	3PH,220V	< 400V	> 3kW
NVFPV-0.75-S2	3PH,187V~264V	220VDC~400VDC	0.45kW(0.6HP)	3PH,220V	< 400V	> 1kW
NVFPV-1.1-S2	3PH,187V~264V	220VDC~400VDC	0.75kW(1HP)	3PH,220V	< 400V	> 1.5kW
NVFPV-1.5-S2	3PH,187V~264V	220VDC~400VDC	1.1kW(1.4HP)	3PH,220V	< 400V	> 2kW
NVFPV-2.2-S2	3PH,187V~264V	220VDC~400VDC	1.5kW(2HP)	3PH,220V	< 400V	> 3kW
NVFPV-3.0-S2	3PH,187V~264V	220VDC~400VDC	2.2kW(3HP)	3PH,220V	< 400V	> 4kW
NVFPV-0.75-S4	3PH,323V~528V	450VDC~800VDC	0.45kW(0.6HP)	3PH,380V	< 800V	> 1kW
NVFPV-1.1-S4	3PH,323V~528V	450VDC~800VDC	0.75kW(1HP)	3PH,380V	< 800V	> 1.5kW
NVFPV-1.5-S4	3PH,323V~528V	450VDC~800VDC	1.1kW(1.4HP)	3PH,380V	< 800V	> 2kW
NVFPV-2.2-S4	3PH,323V~528V	450VDC~800VDC	1.5kW(2HP)	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	450VDC~800VDC	3kW(4HP)	3PH,380V	< 800V	> 5kW
NVFPV-5.5-S4	3PH,323V~528V	450VDC~800VDC	4kW(5HP)	3PH,380V	< 800V	> 7kW
NVFPV-7.5-S4	3PH,323V~528V	450VDC~800VDC	5.5kW(7HP)	3PH,380V	< 800V	> 10kW
NVFPV-11-S4	3PH,323V~528V	450VDC~800VDC	7.5kW(10HP)	3PH,380V	< 800V	> 14kW
NVFPV-15-S4	3PH,323V~528V	450VDC~800VDC	11kW(14.5HP)	3PH,380V	< 800V	> 20kW
NVFPV-18.5-S4	3PH,323V~528V	450VDC~800VDC	15kW(20HP)	3PH,380V	< 800V	> 24kW
NVFPV-22-S4	3PH,323V~528V	450VDC~800VDC	18.5kW(24.5HP)	3PH,380V	< 800V	> 29kW
NVFPV-30-S4	3PH,323V~528V	450VDC~800VDC	22kW(29HP)	3PH,380V	< 800V	> 39kW
NVFPV-37-S4	3PH,323V~528V	450VDC~800VDC	30kW(40HP)	3PH,380V	< 800V	> 48kW
NVFPV-45-S4	3PH,323V~528V	450VDC~800VDC	37kW(49HP)	3PH,380V	< 800V	> 59kW

### Photovoltaic water supply special inverter model description



### 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 550V/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 1.5KW can choose 220V voltage level, and the pump with power greater than 1.5KW 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.





<b>Mode of power supply</b>	Photovoltaic power supply
	Automatic switching mode between power frequency and photovoltaic power supply (photovoltaic power supply is preferred)
<b>Range of input voltage</b>	220V series: 250V~350VDC
	380V series: 450V~750VDC
<b>Power range</b>	380V: 0.75kW-45kW
	220V: 0.75kW-2.2kW
<b>Regulating mode of output frequency</b>	Under the general inverter mode, meeting the combination setting of multiple frequency sources (including 4-20mA feedback signal)
	In the special mode of photovoltaic water pump, the output frequency can be adjusted automatically
<b>Control modes</b>	V/F control, SVC vector control
<b>Overload capacity</b>	under the 150% rated current condition
<b>Starting torque</b>	0.5Hz/150%(SVC)
<b>V/F curve</b>	Linear type, Multipoint type, Nth power type
<b>Working environment</b>	Temperature: -10°C ~50°C Humidity: <95%RH
<b>Communication function</b>	Built-in RS-485
<b>Special function</b>	Maximum power point tracking
<b>Matching load</b>	Load capacity of power equipment $\leq$ Capacity 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 ~ 480m<sup>3</sup>/h ;
- Head : 4~65m ;
- Phreatic depth <20m
- Medium temperature: T ≤40°C ;
- Medium consistency: ≤1.1×10<sup>3</sup>kg/m<sup>3</sup> ;
- 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 ~ 40m<sup>3</sup>/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 (m <sup>3</sup> /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
100WQ11101A	60	30	11kW
100WQ11091	75	45	18.5kW
150WQ12131	160	20	18.5kW

### Selection of Deep-well pump

Photovoltaic pump model (Deep well pump)	Capacity (m <sup>3</sup> /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
100QJY10-80/15-4K3	10	15	4kW
125QJY15-70/11-4K3	15	70	4kW
100QJY10-103/19-5.5K3	10	103	5.5kW
125QJY15-95/15-5.5K3	15	95	5.5kW
100QJY10-123/24-7.5K3	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



# 03

Photovoltaic DC  
pump water supply  
system introduction

**SOLAR PUMP**  
PROFESSIONAL SOLAR PUMP  
MANUFACTURER

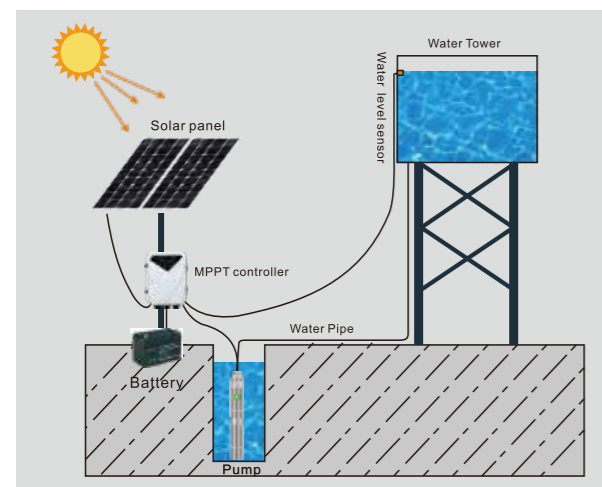




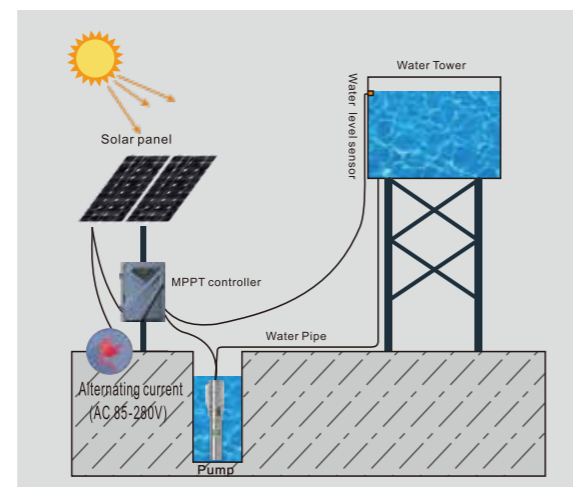
### Performance Range

- Flow: 0~20m<sup>3</sup>/h
- Head: 14~180m
- Power: 0.2kW~2.2kW

### System Chart

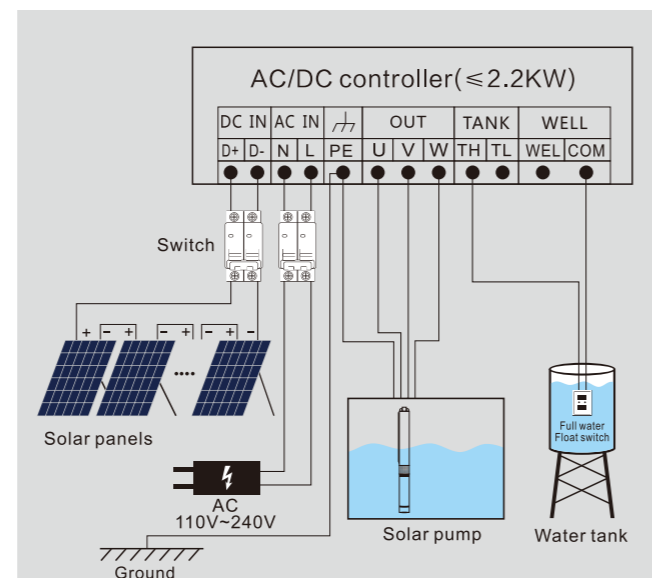
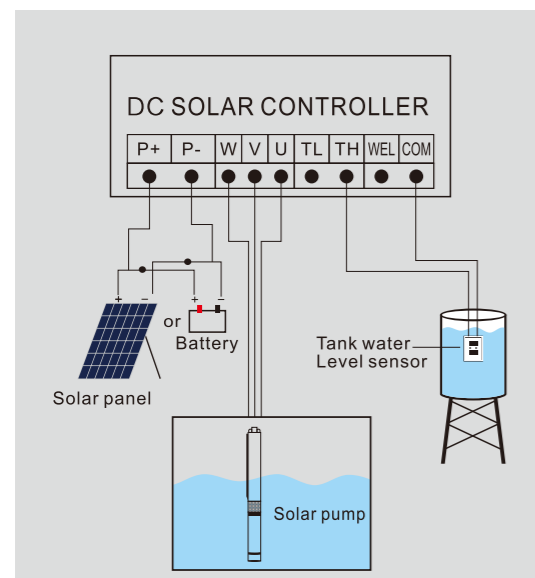


DC System Chart



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

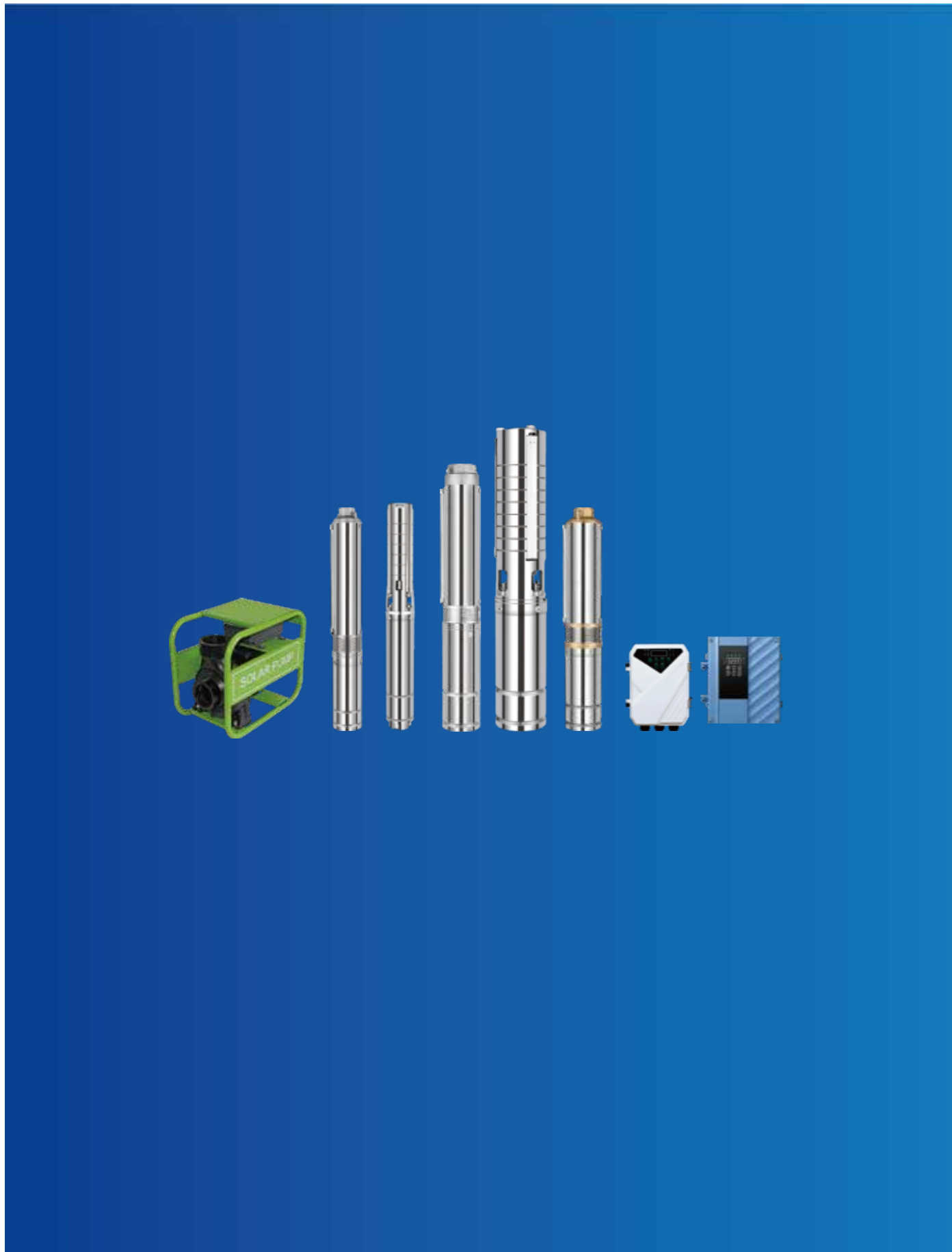
D Stands for our company name  
 QB Stands for Solar floor pump  
 3 Means the pump has a maximum flow rate of 3 cubic meters per hour  
 65 Means that the maximum lift of the pump is 65 meters  
 72 Indicates that the voltage of the pump is 72VDC  
 750 Means that the power of the pump is 750W  
 A/D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



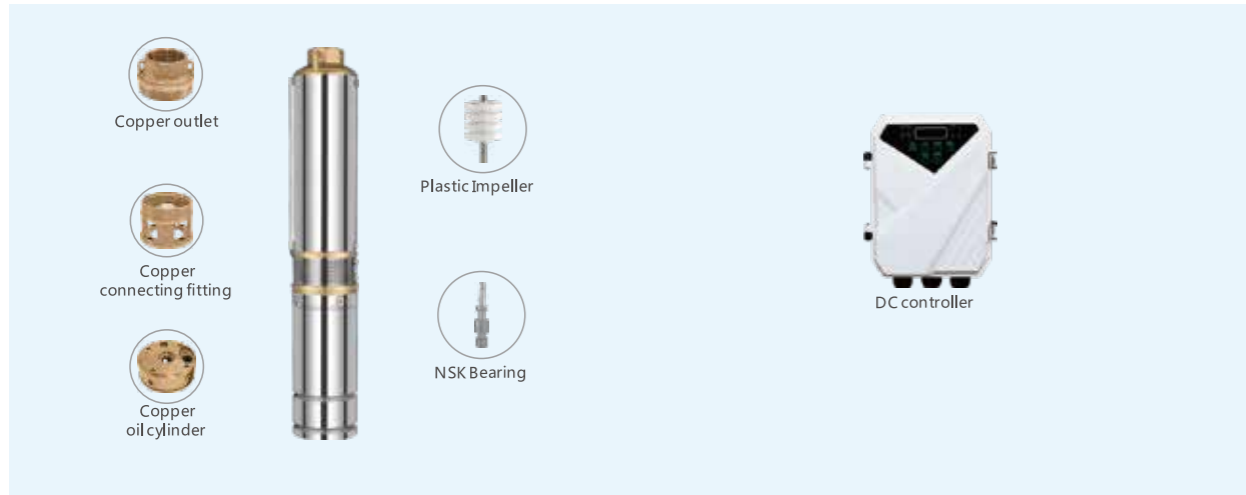
### Controller

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~1.5kW
	AC/DC series : 0.75kW~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°C ~60°C Humidity : <95%RH
Class of protection	IP55
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
Peripheral Interface Features	Water level control interface:TH、 TL、 WEL、 COM Communication interface: RS485(need to be customized)

### Direct Current Pump

Deep well pump wading depth	Plastic impeller: 30 m SUS impeller: 35 m
DC pump motor type	DC permanent magnet brushless synchronous motor
Pump working environment	0~40°C ( Deep-well pump )
Deep well pump service conditions (water)	Max. ambient temperature< 40°C;Maximum permissible quantity of sand:100g/m <sup>3</sup> ;Hydrogen sulfide content up to 1.5mg/L, chloride ion content up to 400mg/L; 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

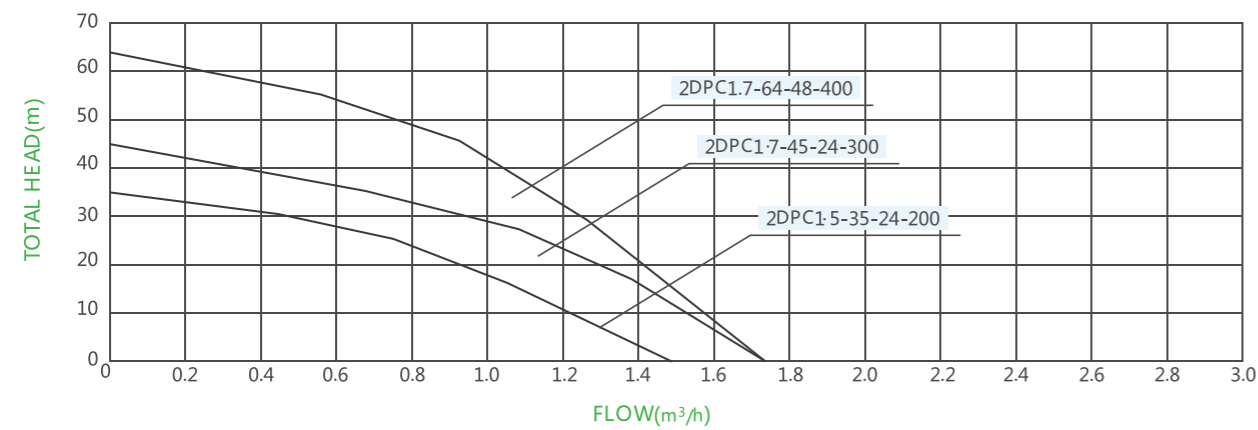
### 2DPC 2" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### 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	1.5m³/h	35m	0.75"	2m	< 55V	≥ 1.3*PUMPPOWER
2DPC1.7-45-24-300	24V	30V-48V	300W	1.7m³/h	45m	0.75"	2m	< 55V	≥ 1.3*PUMPPOWER
2DPC1.7-64-48-400	48V	60V-90V	400W	1.7m³/h	64m	0.75"	2m	< 105V	≥ 1.3*PUMPPOWER

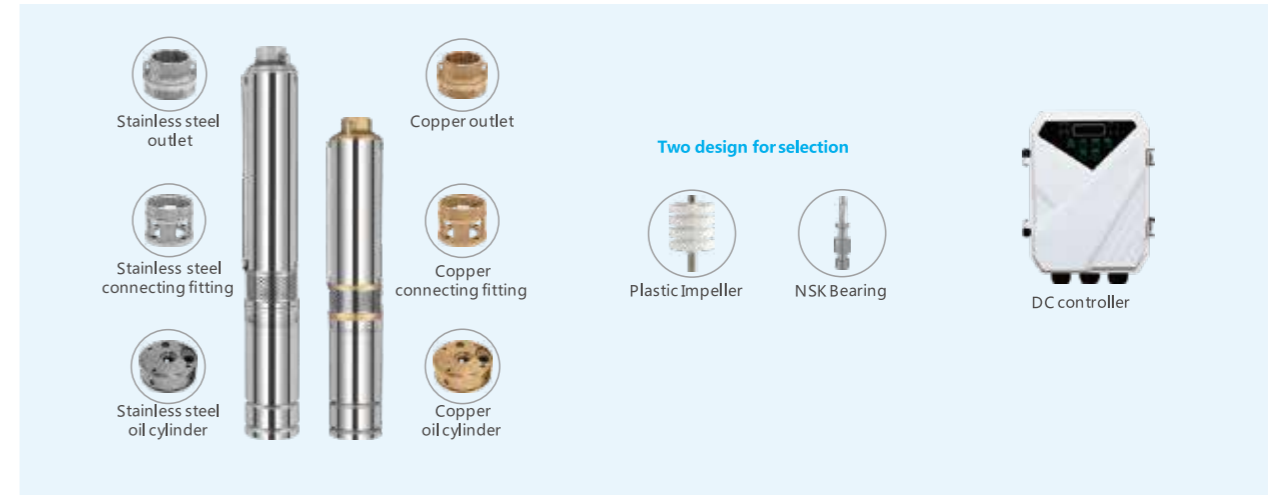
#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



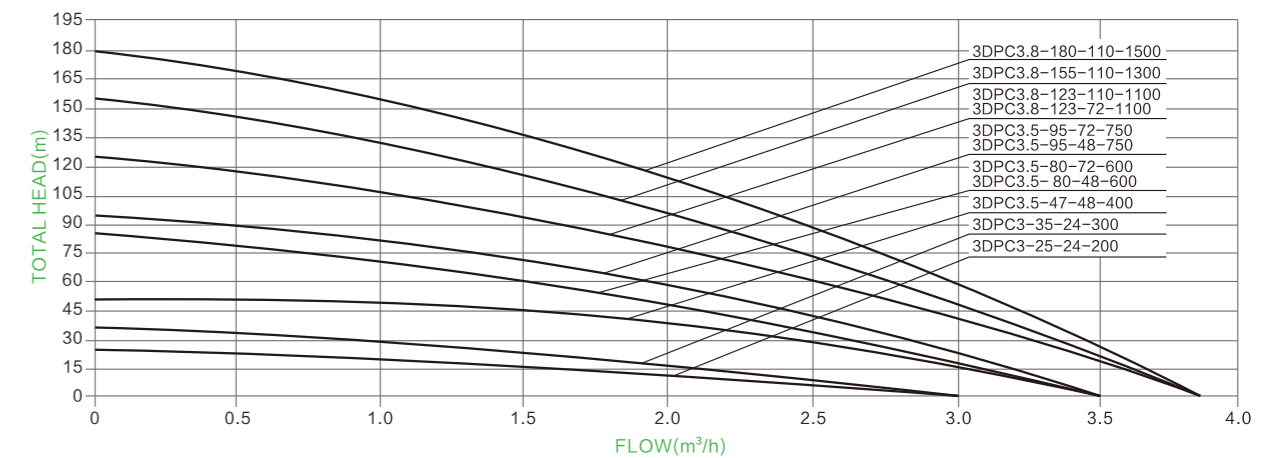
### 3DPC 3" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
3DPC3-25-24-200	24V	30V-48V	200W	3.0m³/h	25m	1.25"	2m	< 55V	≥ 1.3*PUMPPOWER
3DPC3-35-24-300	24V	30V-48V	300W	3.0m³/h	35m	1.25"	2m	< 55V	≥ 1.3*PUMPPOWER
3DPC3.5-47-48-400	48V	60V-90V	400W	3.5m³/h	47m	1.25"	2m	< 105V	≥ 1.3*PUMPPOWER
3DPC3.5-80-48-600	48V	60V-90V	600W	3.5m³/h	80m	1.25"	2m	< 105V	≥ 1.3*PUMPPOWER
3DPC3.5-80-72-600	72V	90V-120V	600W	3.5m³/h	80m	1.25"	2m	< 160V	≥ 1.3*PUMPPOWER
3DPC3.5-95-48-750	48V	60V-90V	750W	3.5m³/h	95m	1.25"	2m	< 105V	≥ 1.3*PUMPPOWER
3DPC3.5-95-72-750	72V	90V-120V	750W	3.5m³/h	95m	1.25"	2m	< 160V	≥ 1.3*PUMPPOWER
3DPC3.8-123-72-1100	72V	90V-120V	1100W	3.8m³/h	123m	1.25"	2m	< 160V	≥ 1.3*PUMPPOWER
3DPC3.8-123-110-1100	110V	110V-150V	1100W	3.8m³/h	123m	1.25"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC3.8-155-110-1300	110V	110V-150V	1300W	3.8m³/h	155m	1.25"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC3.8-180-110-1500	110V	110V-150V	1500W	3.8m³/h	180m	1.25"	2m	< 210V	≥ 1.3*PUMPPOWER

#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS





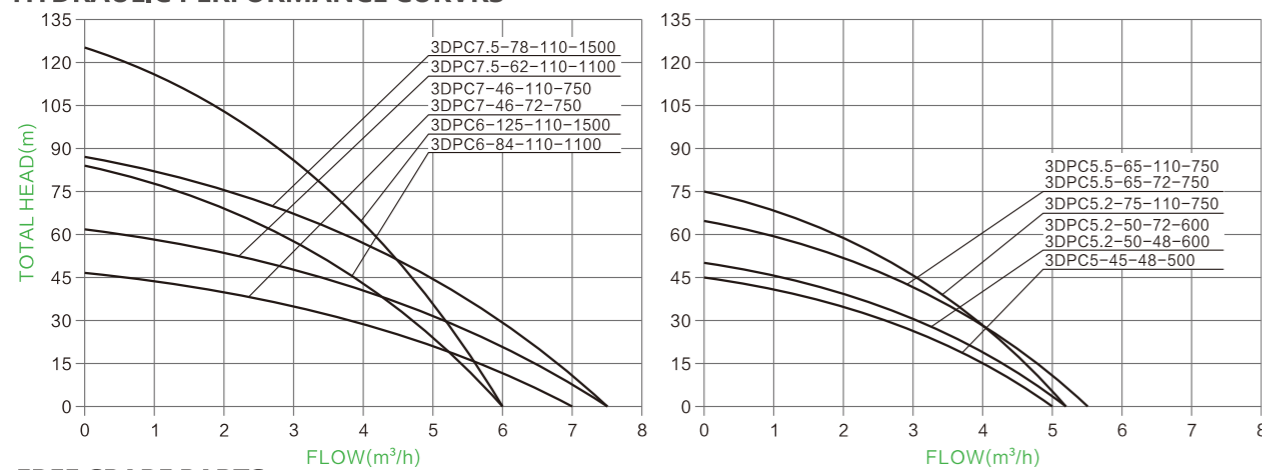
### 3DPC 3" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### 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	500W	5m³/h	45m	1.5"	2m	< 105V	≥ 1.3*PUMPPOWER
3DPC5.2-50-48-600	48V	60V-90V	600W	5.2m³/h	50m	1.5"	2m	< 105V	≥ 1.3*PUMPPOWER
3DPC5.2-50-72-600	72V	90V-120V	600W	5.2m³/h	50m	1.5"	2m	< 160V	≥ 1.3*PUMPPOWER
3DPC5.2-75-110-750	110V	110V-150V	750W	5.2m³/h	75m	1.5"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC5.5-65-72-750	72V	90V-120V	750W	5.5m³/h	65m	1.5"	2m	< 160V	≥ 1.3*PUMPPOWER
3DPC5.5-65-110-750	110V	110V-150V	750W	5.5m³/h	65m	1.5"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC6-84-110-1100	110V	110V-150V	1100W	6m³/h	84m	1.5"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC6-125-110-1500	110V	110V-150V	1500W	6m³/h	125m	1.5"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC7-46-72-750	72V	90V-120V	750W	7m³/h	46m	1.5"	2m	< 160V	≥ 1.3*PUMPPOWER
3DPC7-46-110-750	110V	110V-150V	750W	7m³/h	46m	1.5"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC7.5-62-110-1100	110V	110V-150V	1100W	7.5m³/h	62m	1.5"	2m	< 210V	≥ 1.3*PUMPPOWER
3DPC7.5-78-110-1500	110V	110V-150V	1500W	7.5m³/h	78m	1.5"	2m	< 210V	≥ 1.3*PUMPPOWER

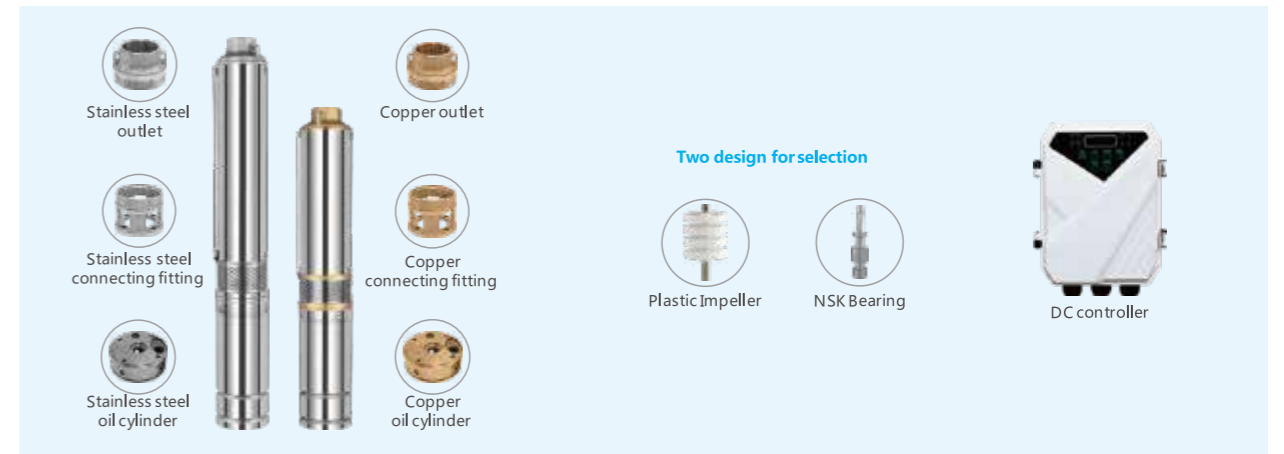
#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



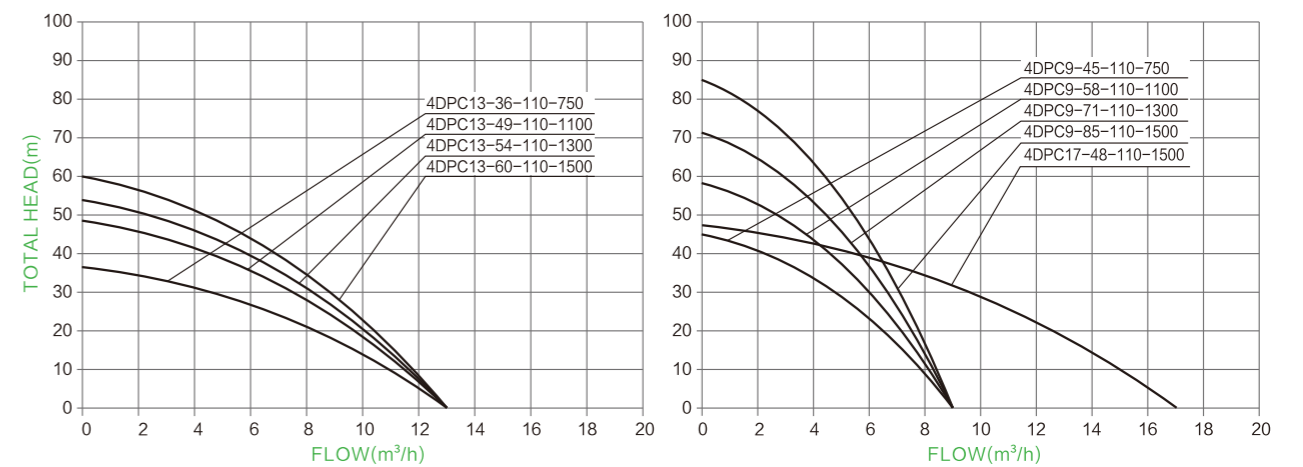
### 4DPC 4" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### 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	9.0m³/h	45m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC9-58-110-1100	110V	110V-150V	1100W	9.0m³/h	58m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC9-71-110-1300	110V	110V-150V	1300W	9.0m³/h	71m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC9-85-110-1500	110V	110V-150V	1500W	9.0m³/h	85m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC13-36-110-750	110V	110V-150V	750W	13m³/h	36m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC13-49-110-1100	110V	110V-150V	1100W	13m³/h	49m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC13-54-110-1300	110V	110V-150V	1300W	13m³/h	54m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC13-60-110-1500	110V	110V-150V	1500W	13m³/h	60m	2"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC17-48-110-1500	110V	110V-150V	1500W	17m³/h	48m	2"	2m	< 210V	≥ 1.3*PUMPPOWER

#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



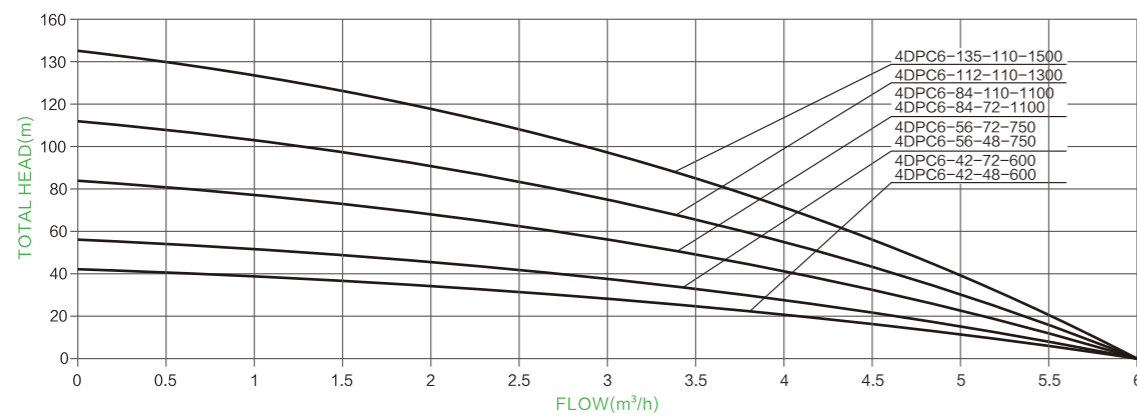
### 4DPC 4" DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### 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	6.0m³/h	42m	1.25"	2m	< 105V	≥ 1.3*PUMPPOWER
4DPC6-42-72-600	72V	90V-120V	600W	6.0m³/h	42m	1.25"	2m	< 160V	≥ 1.3*PUMPPOWER
4DPC6-56-48-750	48V	60V-90V	750W	6.0m³/h	56m	1.25"	2m	< 105V	≥ 1.3*PUMPPOWER
4DPC6-56-72-750	72V	90V-120V	750W	6.0m³/h	56m	1.25"	2m	< 160V	≥ 1.3*PUMPPOWER
4DPC6-84-72-1100	72V	90V-120V	1100W	6.0m³/h	84m	1.25"	2m	< 160V	≥ 1.3*PUMPPOWER
4DPC6-84-110-1100	110V	110V-150V	1100W	6.0m³/h	84m	1.25"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC6-112-110-1300	110V	110V-150V	1300W	6.0m³/h	112m	1.25"	2m	< 210V	≥ 1.3*PUMPPOWER
4DPC6-135-110-1500	110V	110V-150V	1500W	6.0m³/h	135m	1.25"	2m	< 210V	≥ 1.3*PUMPPOWER

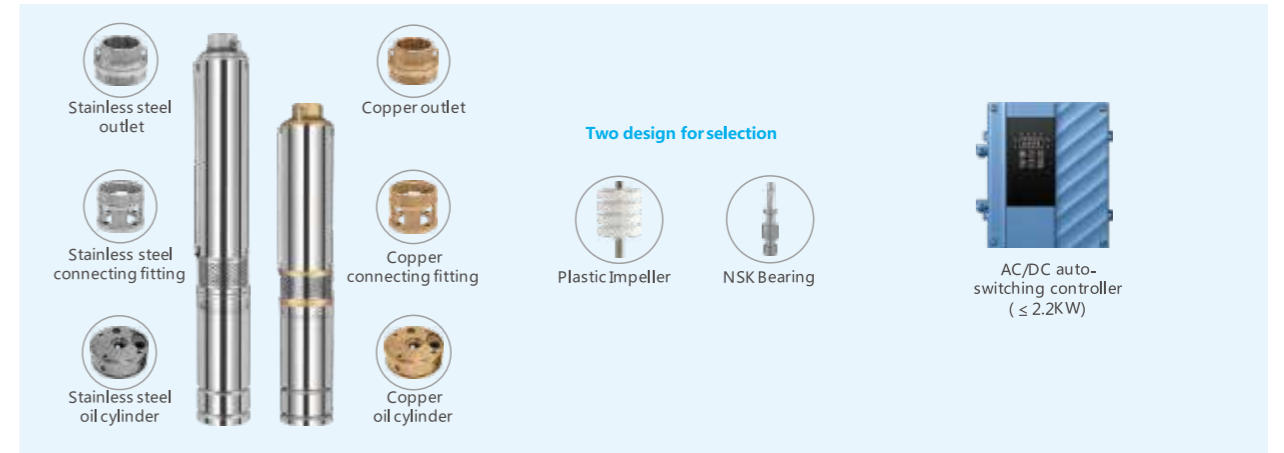
#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



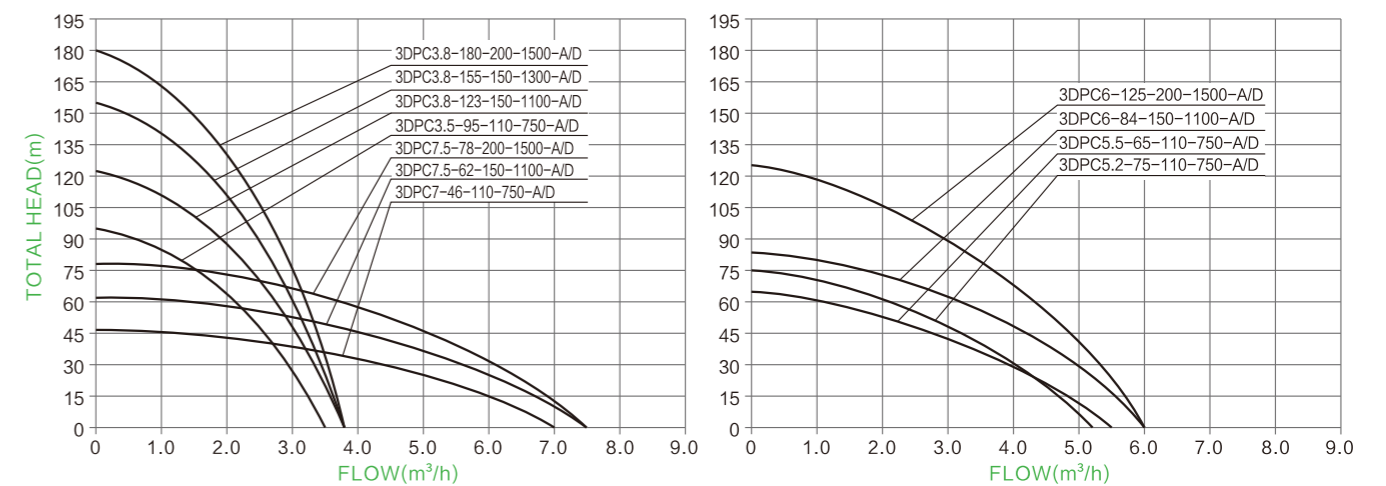
### 3DPC-A/D 3" AC/DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### 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	3.5m³/h	95m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC3.8-123-150-1100-A/D	85-280V	80V-430V	1100W	3.8m³/h	123m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC3.8-155-150-1300-A/D	85-280V	80V-430V	1300W	3.8m³/h	155m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC3.8-180-200-1500-A/D	85-280V	80V-430V	1500W	3.8m³/h	180m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC5.2-75-110-750-A/D	85-280V	80V-430V	750W	5.2m³/h	75m	1.5"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC5.5-65-110-750-A/D	85-280V	80V-430V	750W	5.5m³/h	65m	1.5"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC6-84-150-1100-A/D	85-280V	80V-430V	1100W	6m³/h	84m	1.5"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC6-125-200-1500-A/D	85-280V	80V-430V	1500W	6m³/h	125m	1.5"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC7-46-110-750-A/D	85-280V	80V-430V	750W	7m³/h	46m	1.5"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC7.5-62-150-1100-A/D	85-280V	80V-430V	1100W	7.5m³/h	62m	1.5"	2m	< 430V	≥ 1.3*PUMPPOWER
3DPC7.5-78-200-1500-A/D	85-280V	80V-430V	1500W	7.5m³/h	78m	1.5"	2m	< 430V	≥ 1.3*PUMPPOWER

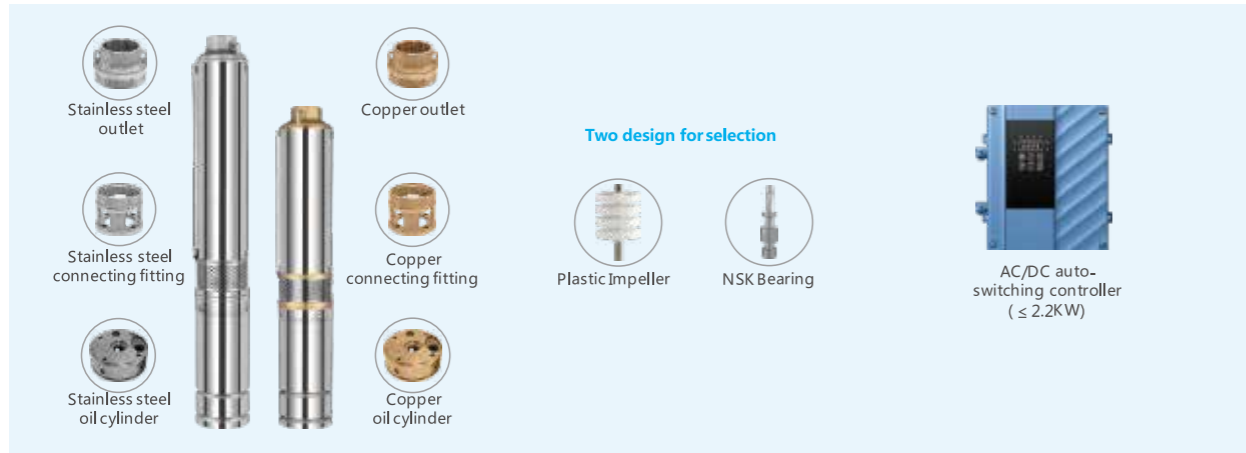
#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



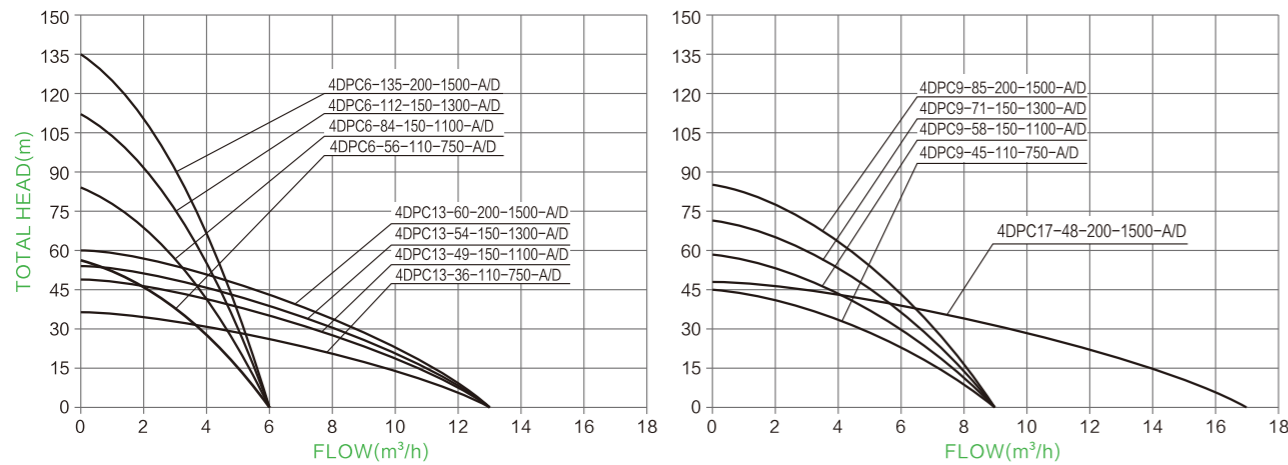
### 4DPC-A/D 4" AC/DC BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC6-56-110-750-A/D	85V-280V	80V-430V	750W	6m³/h	56m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC6-84-150-1100-A/D	85V-280V	80V-430V	1100W	6m³/h	84m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC6-112-150-1300-A/D	85V-280V	80V-430V	1300W	6m³/h	112m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC6-135-200-1500-A/D	85V-280V	80V-430V	1500W	6m³/h	135m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC9-45-110-750-A/D	85V-280V	80V-430V	750W	9m³/h	45m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC9-58-150-1100-A/D	85V-280V	80V-430V	1100W	9m³/h	58m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC9-71-150-1300-A/D	85V-280V	80V-430V	1300W	9m³/h	71m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC9-85-200-1500-A/D	85V-280V	80V-430V	1500W	9m³/h	85m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC13-36-110-750-A/D	85V-280V	80V-430V	750W	13m³/h	36m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC13-49-150-1100-A/D	85V-280V	80V-430V	1100W	13m³/h	49m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC13-54-150-1300-A/D	85V-280V	80V-430V	1300W	13m³/h	54m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC13-60-200-1500-A/D	85V-280V	80V-430V	1500W	13m³/h	60m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC17-48-200-1500-A/D	85V-280V	80V-430V	1500W	17m³/h	48m	2"	2m	< 430V	

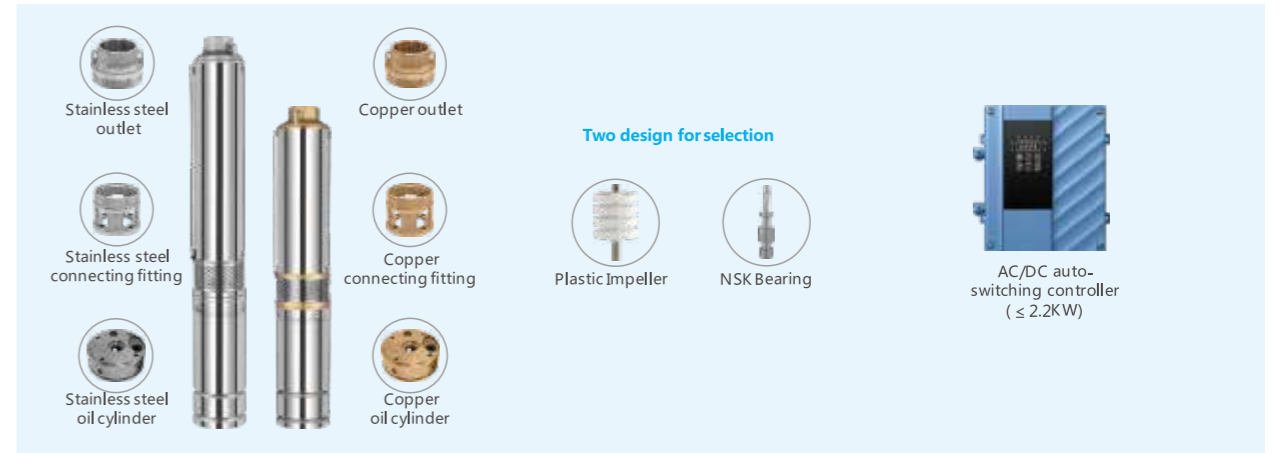
#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



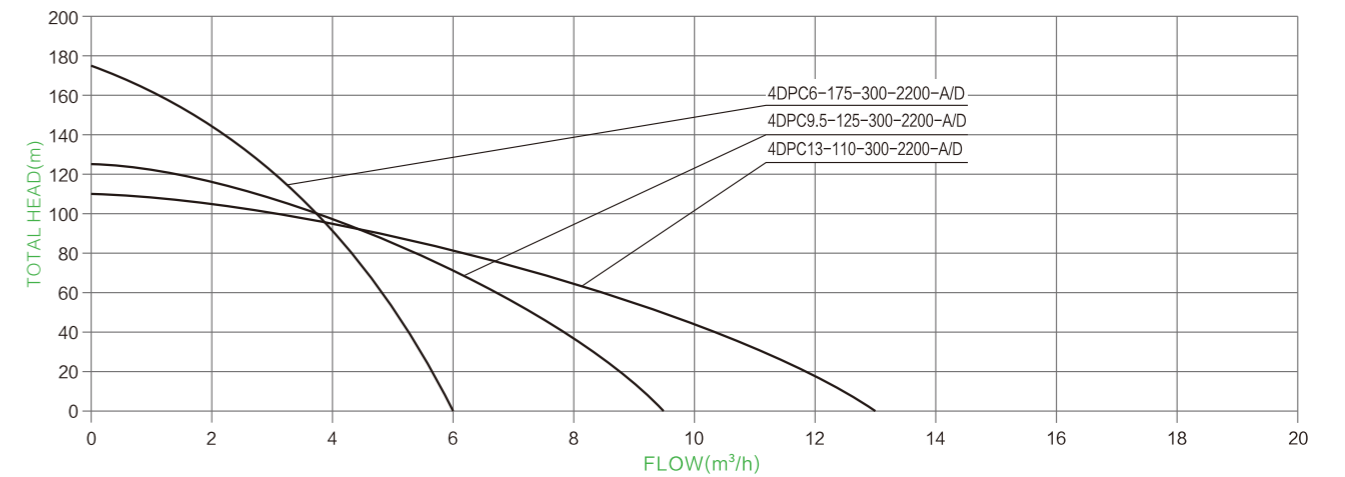
### 4DPC-A/D 4" AC/DC & WIND VOLTAGE BRUSHLESS SOLAR PUMP WITH PLASTIC IMPELLER



#### TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
4DPC6-175-300-2200-A/D	85V-280V	80V-430V	2200W	6m³/h	175m	1.25"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC9.5-125-300-2200-A/D	85V-280V	80V-430V	2200W	9.5m³/h	125m	2"	2m	< 430V	≥ 1.3*PUMPPOWER
4DPC13-110-300-2200-A/D	85V-280V	80V-430V	2200W	13m³/h	110m	2"	2m	< 430V	≥ 1.3*PUMPPOWER

#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS





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

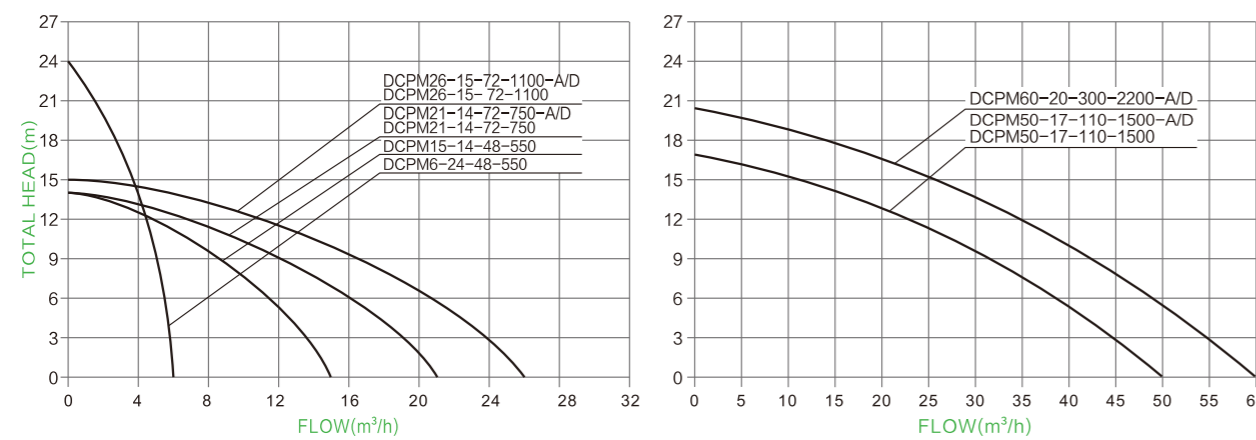


#### TECHNICAL DATA

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DCPM6-24-48-550	48V	60V-90V	550W	6m³/h	24m	1"	0.6m	< 105V	≥ 1.3*PUMPPOWER
DCPM15-14-48-550	48V	60V-90V	550W	15m³/h	14m	1.5"	0.6m	< 105V	≥ 1.3*PUMPPOWER
DCPM21-14-72-750	72V	90V-120V	750W	21m³/h	14m	2"	0.6m	< 160V	≥ 1.3*PUMPPOWER
DCPM26-15-72-1100	72V	90V-120V	1100W	26m³/h	15m	2"	0.6m	< 160V	≥ 1.3*PUMPPOWER
DCPM50-17-110-1500	110V	110V-150V	1500W	50m³/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
DCPM21-14-72-750-A/D	85V-280V	80V-430V	750W	21m³/h	14m	2"	0.6m	< 430V	≥ 1.3*PUMPPOWER
DCPM26-14-72-1100-A/D	85V-280V	80V-430V	1100W	26m³/h	14m	2"	0.6m	< 430V	≥ 1.3*PUMPPOWER
DCPM50-17-110-1500-A/D	85V-280V	80V-430V	1500W	50m³/h	17m	3"	0.6m	< 430V	≥ 1.3*PUMPPOWER
DCPM60-20-300-2200-A/D	85V-280V	80V-430V	2200W	60m³/h	20m	4"	0.6m	< 430V	≥ 1.3*PUMPPOWER

#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



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



#### TECHNICAL DATA

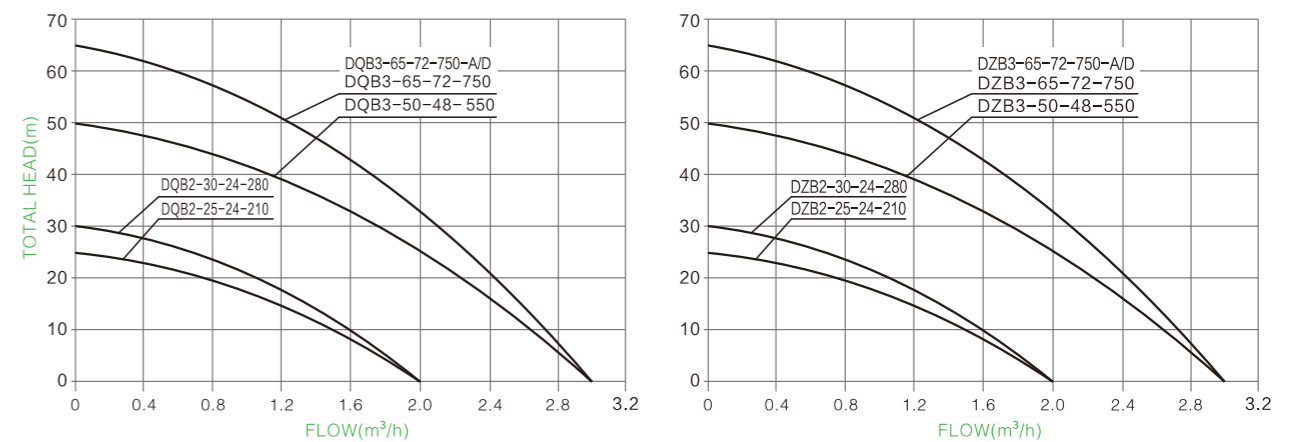
ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DQB2-25-24-210	24V	30V-48V	210W	2m³/h	25m	1x1"	2m	< 55V	≥ 1.3*PUMPPOWER
DQB2-30-24-280	24V	30V-48V	280W	2m³/h	30m	1x1"	2m	< 55V	≥ 1.3*PUMPPOWER
DQB3-50-48-550	48V	60V-90V	550W	3m³/h	50m	1x1"	2m	< 105V	≥ 1.3*PUMPPOWER
DQB3-65-72-750	72V	90V-120V	750W	3m³/h	65m	1x1"	2m	< 160V	≥ 1.3*PUMPPOWER

ITEM	Voltage	Optimum input voltage(DC)	Power	Max. Flow	Max. Head	Outlet	Cable	Solar panel	
								Open circuit voltage(VOC)	Power
DQB3-65-72-750-A/D	80V-280V	80V-430V	750W	3m³/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	2m³/h	25m	1x1"	2m	< 55V	≥ 1.3*PUMPPOWER
DZB2-30-24-280	24V	30V-48V	280W	2m³/h	30m	1x1"	2m	< 55V	≥ 1.3*PUMPPOWER
DZB3-50-48-550	48V	60V-90V	550W	3m³/h	50m	1x1"	2m	< 105V	≥ 1.3*PUMPPOWER
DZB3-65-72-750	72V	90V-120V	750W	3m³/h	65m	1x1"	2m	< 160V	≥ 1.3*PUMPPOWER

#### HYDRAULIC PERFORMANCE CURVRS



#### FREE SPARE PARTS



## DLP/DLP-A/D DC & AC/DC BRUSHLESS SWIMMING POOL SOLAR PUMP

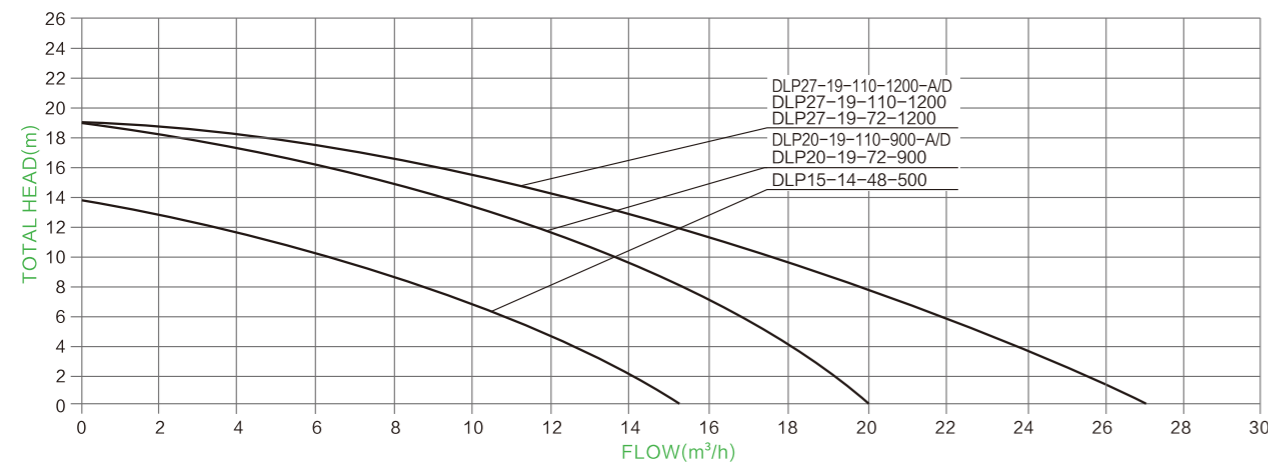


### TECHNICAL DATA

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	15m³/h	14m	2X2"	2m	< 105V	≥ 1.3*PUMP POWER
DLP20-19-72-900	72V	90V-120V	900W	20m³/h	19m	2X2"	2m	< 160V	≥ 1.3*PUMP POWER
DLP27-19-72-1200	72V	90V-120V	1200W	27m³/h	19m	3X3"	2m	< 160V	≥ 1.3*PUMP POWER
DLP27-19-110-1200	110V	110V-150V	1200W	27m³/h	19m	3X3"	2m	< 210V	≥ 1.3*PUMP POWER

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	85V-280V	80V-430V	900W	20m³/h	19m	2X2"	2m	< 430V	≥ 1.3*PUMP POWER
DLP27-19-72-1200-A/D	85V-280V	80V-430V	1200W	27m³/h	19m	3X3"	2m	< 430V	≥ 1.3*PUMP POWER

### HYDRAULIC PERFORMANCE CURVES



### FREE SPARE PARTS



### NOTE

# 04

## Introduction to photovoltaic system accessories

### Introduction to photovoltaic system accessories



#### Overflow sensor (AT35-3-U6)

- The power supply adopts 10V 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 connector (MC4)

- Size of cables:4mm<sup>2</sup>
- Protection degree:IP67
- Rated current :40A
- Rated voltage :1500VDC
- Temperature range :-40°C ~ 85°C
- Standard:IEC62852:2014



#### Photovoltaic cable

- Size of cables :2.5/4.0/6.0mm<sup>2</sup>
- Protection degree:Black/red protection
- Rated current :Tinned copper stranded wire
- Rated voltage :40A/55A/70A
- Rated voltage :1500VDC
- Temperature range : -40°C ~120°C



