



## LEO SOLAR PUMP LDG, LDP, LDS, LPY & SURFACE

# INTELLIGENT FLOW FOR GOOD



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Exploring more by scanning!

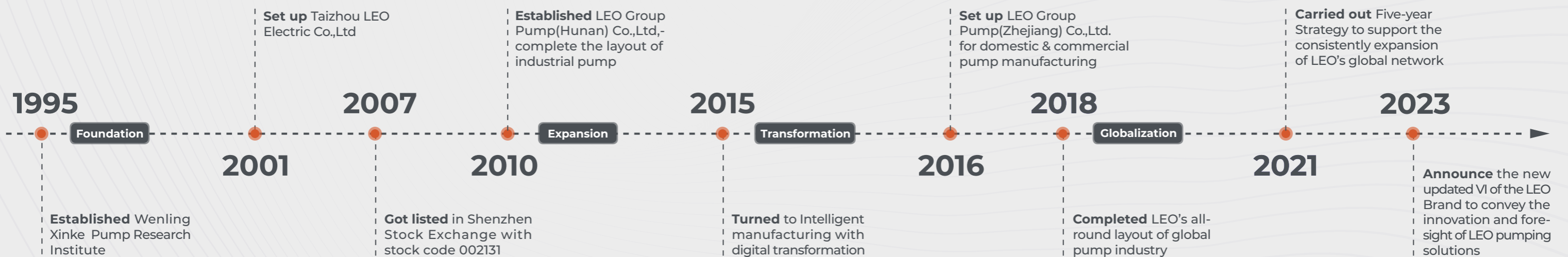


## Intelligent Flow For Good

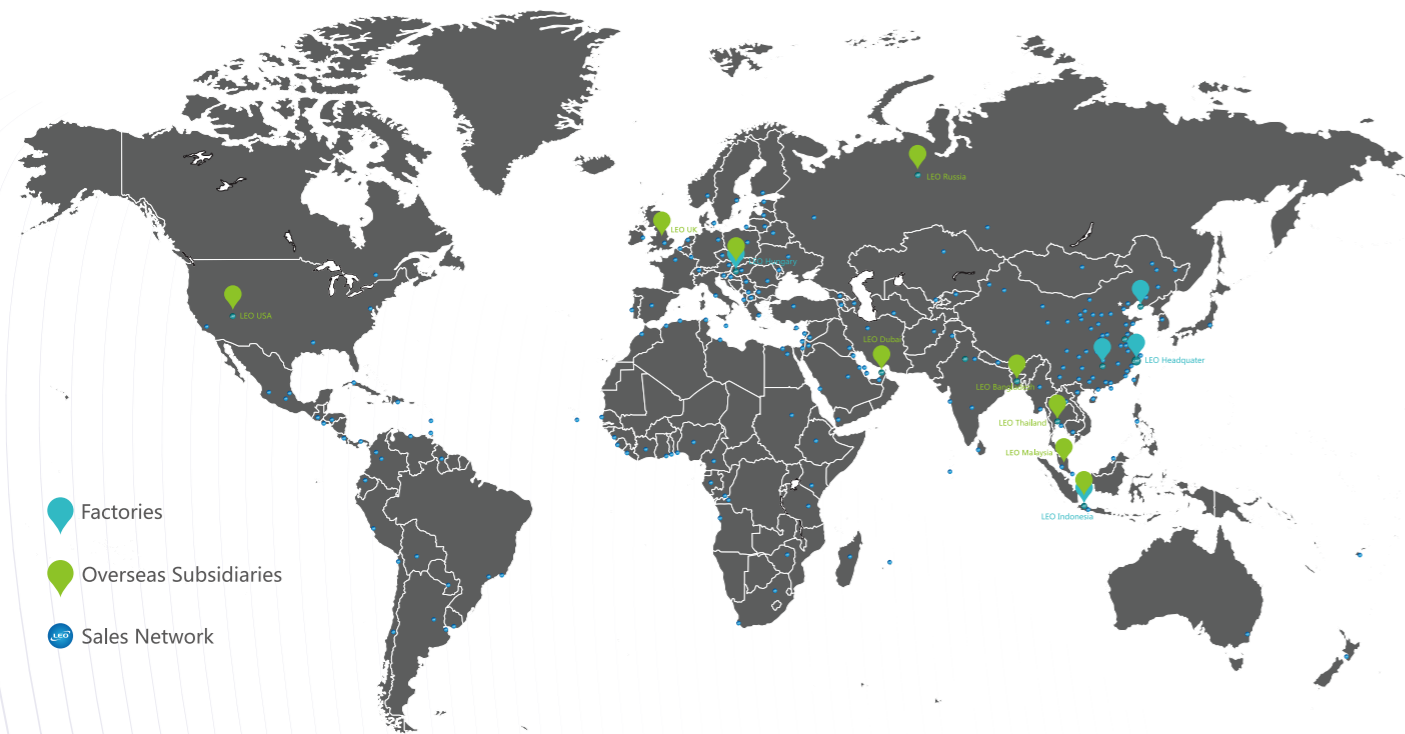
LEO PUMP, founded in 1995, is a leading professional pump & system solution provider, engaged in R&D, manufacture, sales and service of all series pumps and systems. Our products are widely used in water conservancy & water resources, power plants, petrochemical industry, mining & metallurgical industry, civilian water applications, garden machinery and solar pump& system.

With more than 28 years' profession and experience, LEO has become one of the world's famous pump brands. We have set up many production and sales subsidiaries in key regional markets, such as Dubai, Indonesia, Thailand, Malaysia, Bangladesh, USA, Hungary and Russia. Our innovations have brought changes to more than 145 countries and regions, served over 500 million end-users.

We keep adhering to philosophy of "run business with virtue, pursue success with perfection, win victory with efficiency, and go forward with right actions" and focus on developing safe and high-efficiency pump and system, being a sustainable development industry leader. Going forward we will continue our consistent creativity and development ability in each pump for human's health!



## LEO WORLD



## LEO IN NUMBERS



Globally we have 5 production plants and relevant professional sales and technical teams with over 500 technicians to support global sales and service. Besides, we also set up several sales and production subsidiaries in key regional markets in Asia, Europe, and America with global employees over 6,000.

With the devoting experience and extraordinary comprehensive strength, LEO has obtained over 700 patents and become a leading pioneer among pump manufacturers and we will keep focus on the development of safe and high-efficient pump&system, being a sustainable enterprise in the industry!



Pump Manufacturing Base for Domestic and Commercial Applications



Pump Manufacturing Base for General Industrial Pumps



Pump Manufacturing Base for Petrochemical Industry

## SOLAR PUMPING SYSTEM HELPS A LOT

- Reduce the distance between us and clean water
- Lift fresh water from deep underground to irrigate fruit, contributes to better fruit quality
- Providing much more reliable and efficient water supply for livestock
- Very economical & Worry-free way to circulate pool water



### Solar Pumping Technology is Making The World Better



## DSDP Solar Pump Inverter



DSDP Inverter

### Features

- High efficiency with MPPT function
- Specially designed for solar pumping system
- Easy installation & Low installation cost
- Easy operation & Low maintenance cost
- Protection class: IP55

### Multi Functions

- MPPT: Increase the solar power utilization rate
- LED Screen displays Real time working condition: Output Power, Output Voltage, Current, Pump speed & Error code
- Auto Frequency Conversion function: Can automatically adjust the speed/rpm according to solar power strength, user can adjust the pump speed/rpm manually.
- Auto On/Off (with float switch )
- Soft Start: No impulse current, protect pump motor. No water hammer, protect the whole plumbing system.
- Multi-protection: Dry-run protection, Over-voltage protection, Over-current protection. High-temperature protection (reduce rpm when the inner temperature got 79°C), Output phase lose protection.



High Reliability



MPPT



IP55



Cost Saving

### Working Environment and Electrical Property

Controller Model	Adaptable Pump Rated Voltage	Max.Input Current	Max.Open Circuit Voltage	MPPT Voltage Range	Working Temperature	Inverter Dimension	Net Weight
DC-12	12V	17A	48V	30-48V	-15~+60°C	23.8x18x9.5mm	1.5kg
DC-24	24V	17A	48V	30-48V			
DC-36	36V	17A	48V	30-48V			
DC-48	48V	17A	100V	60-90V			
DC-72	72V	17A	150V	90-120V			
DC-110	110V	17A	200V	110-150V			

### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system

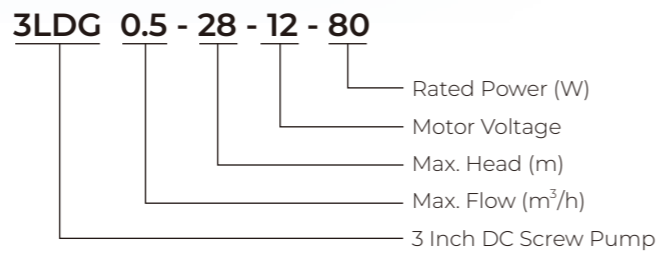
### Pump Features

- With MPPT DC controller
- High-precision AISI304 screw gets higher efficiency
- AISI304 oil chamber and pump barrel
- NSK bearing
- High efficiency PMSM brushless motor  
(PMSM: Permanent Magnet Synchronous Motor)

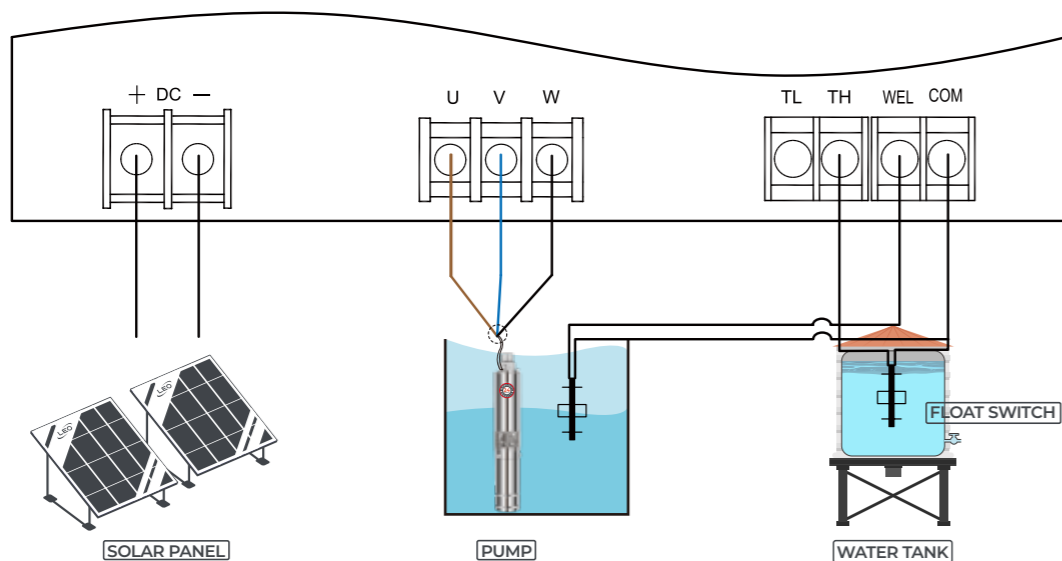
### MPPT DC Controller

- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

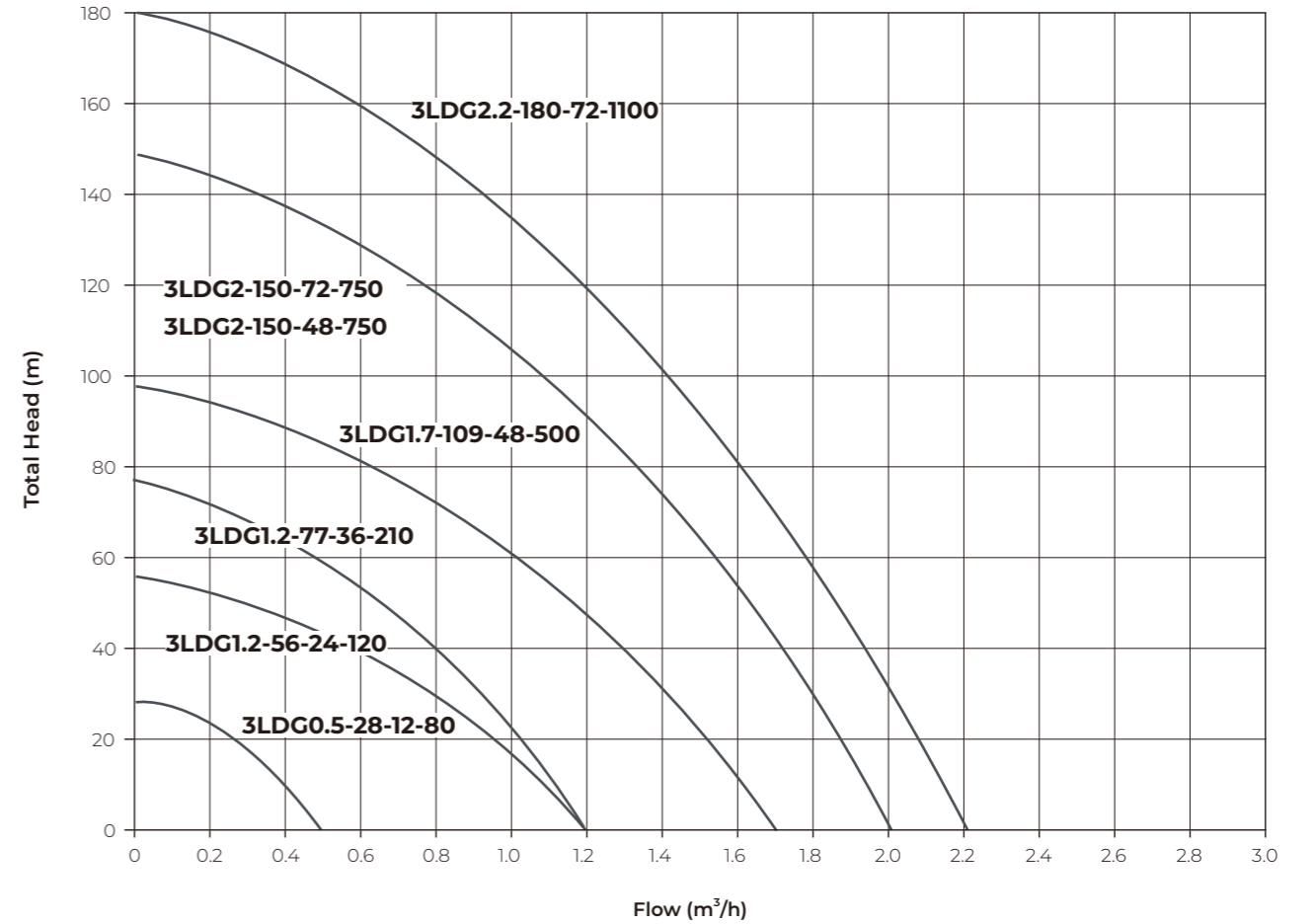
### Identification Codes



### Wiring Diagram

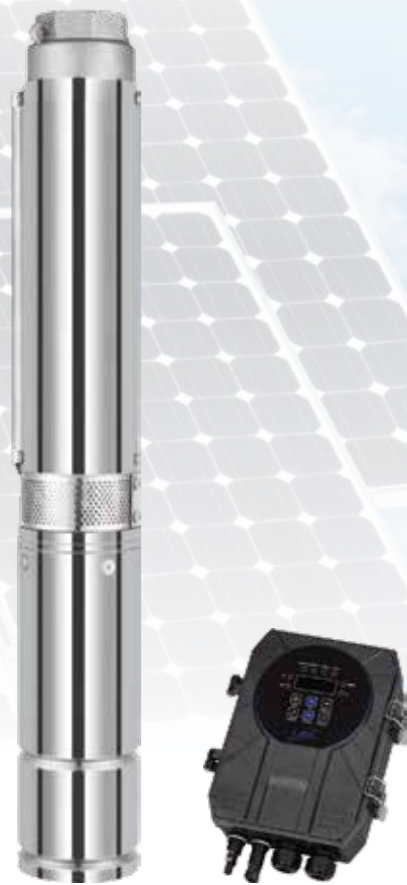


### 3" DC Solar Screw Pump



### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m <sup>3</sup> /h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LDG0.5-28-12-80	80	12	20-36	0.5	28	3/4"	2	< 50	≥1.3*Pump Power
3LDG1.2-56-24-120	120	24	30-48	1.2	56	3/4"	2	< 50	≥1.3*Pump Power
3LDG1.2-77-36-210	210	36	30-48	1.2	77	3/4"	2	< 50	≥1.3*Pump Power
3LDG1.7-109-48-500	500	48	60-90	1.7	109	3/4"	2	< 100	≥1.3*Pump Power
3LDG2-150-48-750	750	48	60-90	2	150	3/4"	2	< 100	≥1.3*Pump Power
3LDG2-150-72-750	750	72	90-120	2	150	3/4"	2	< 150	≥1.3*Pump Power
3LDG2.2-180-72-1100	1100	72	90-120	2.2	180	3/4"	2	< 150	≥1.3*Pump Power



### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system

### Pump Features

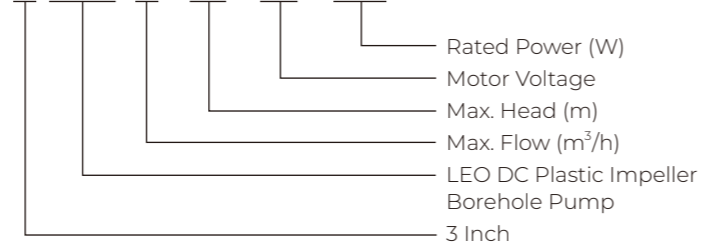
- With MPPT DC controller
- Plastic impeller and diffuser
- AISI304 oil chamber & outlet
- NSK bearing
- High efficiency PMSM brushless motor  
(PMSM: Permanent Magnet Synchronous Motor)

### MPPT DC Controller

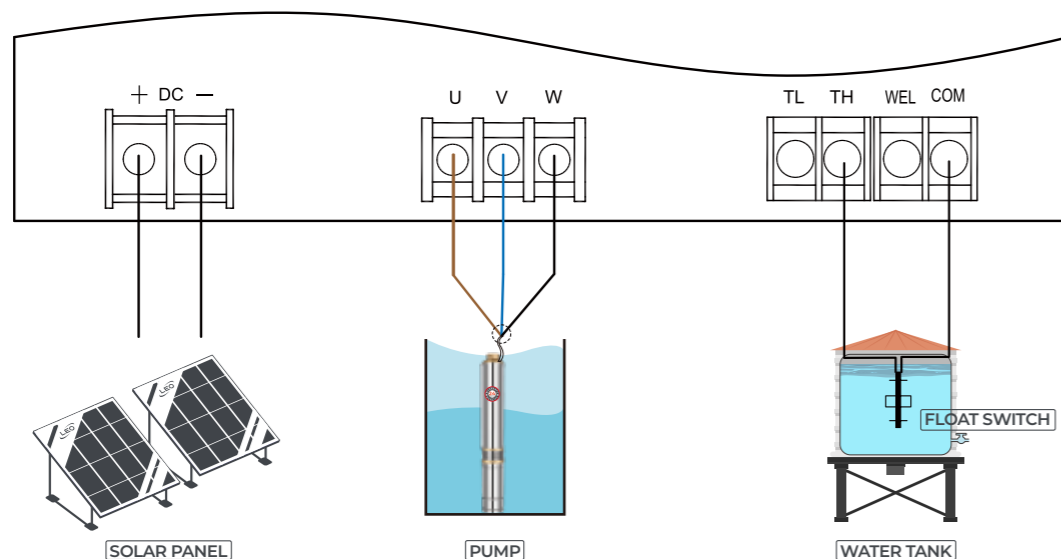
- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

### Identification Codes

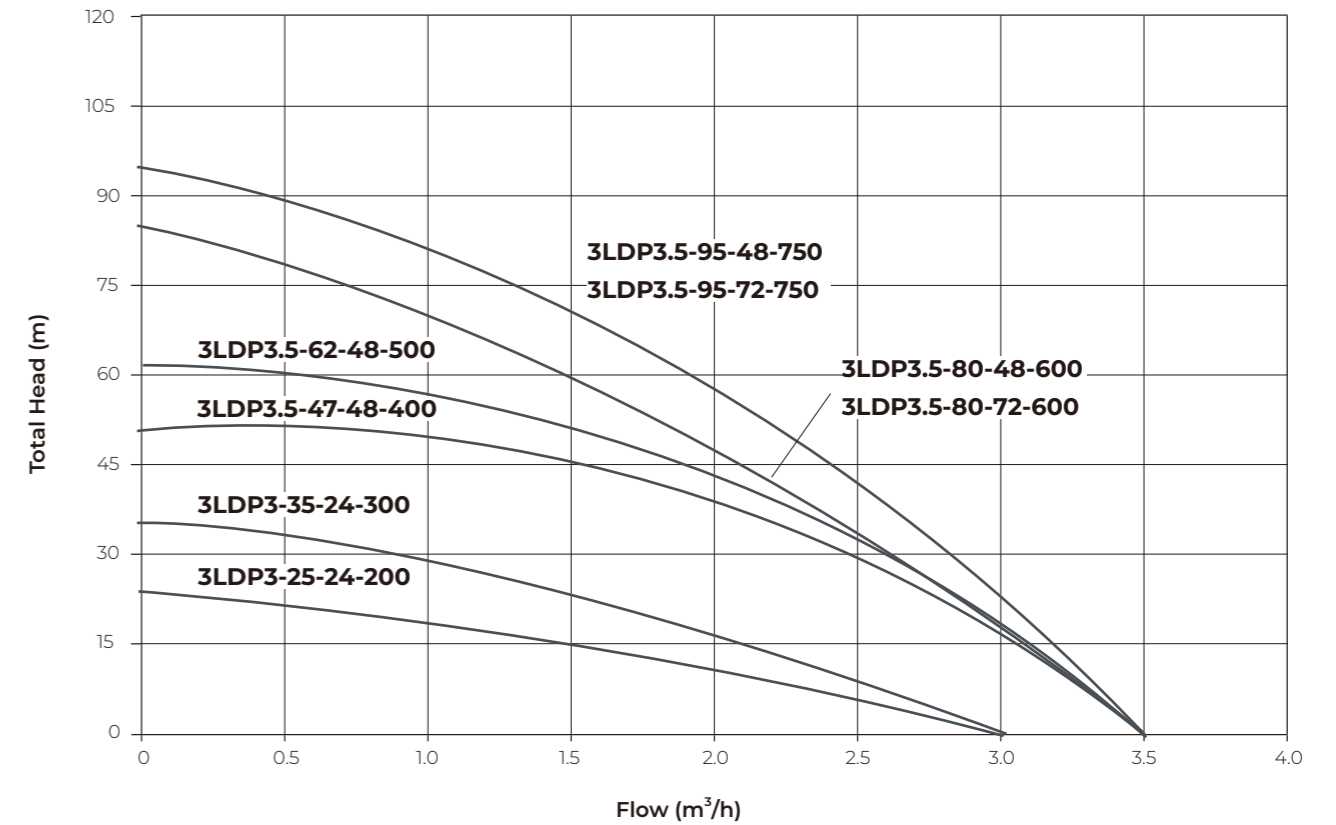
**3 LDP 5 - 45 - 48 - 500**



### Wiring Diagram



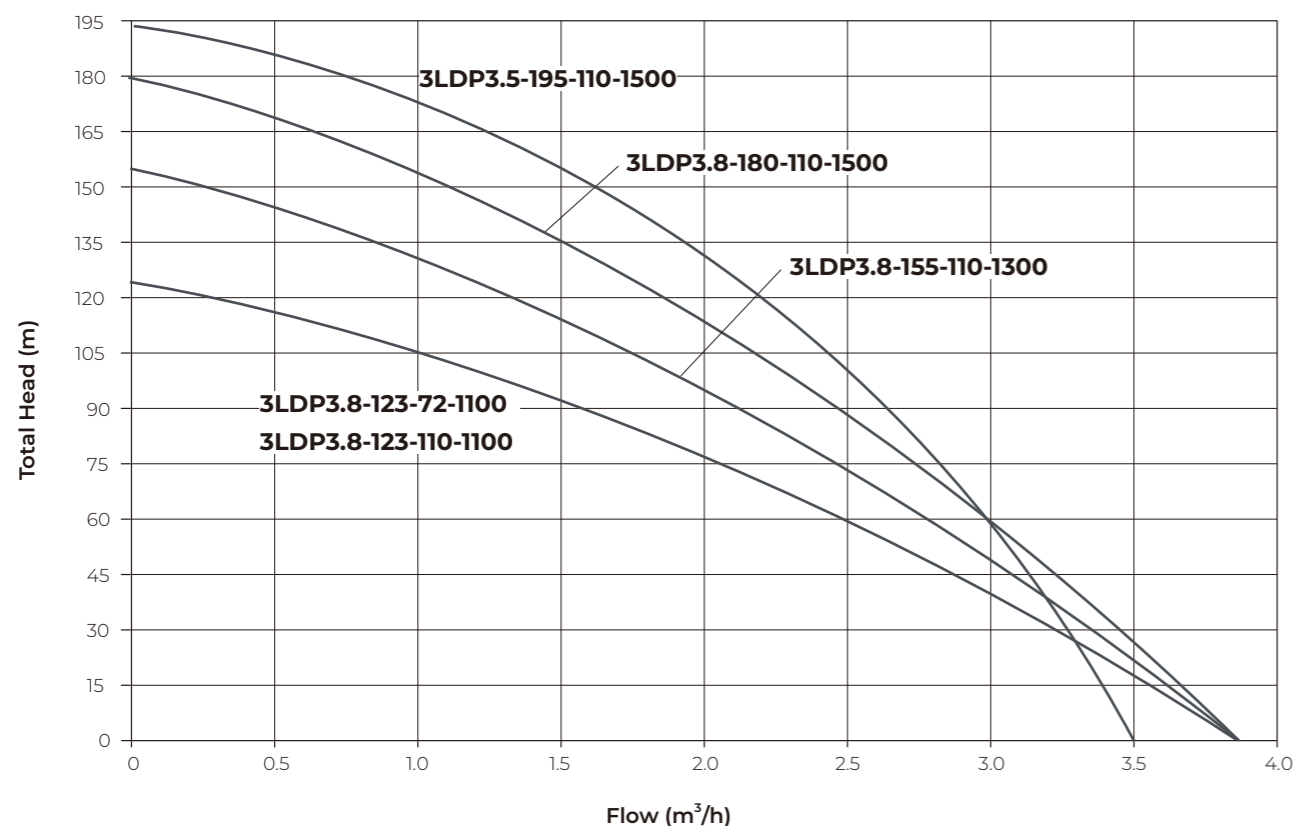
### 3" DC Solar Pump with Plastic Impeller



### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m <sup>3</sup> /h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LDP3-25-24-200	200	24	30-48	3	25	1¼"	2	<50	≥1.3*Pump Power
3LDP3-35-24-300	300	24	30-48	3	35	1¼"	2	<50	≥1.3*Pump Power
3LDP3.5-47-48-400	400	48	60-90	3.5	47	1¼"	2	<100	≥1.3*Pump Power
3LDP3.5-62-48-500	500	48	60-90	3.5	62	1¼"	2	<100	≥1.3*Pump Power
3LDP3.5-80-48-600	600	48	60-90	3.5	80	1¼"	2	<100	≥1.3*Pump Power
3LDP3.5-80-72-600	600	72	90-120	3.5	80	1¼"	2	<150	≥1.3*Pump Power
3LDP3.5-95-48-750	750	48	60-90	3.5	95	1¼"	2	<100	≥1.3*Pump Power
3LDP3.5-95-72-750	750	72	90-120	3.5	95	1¼"	2	<150	≥1.3*Pump Power

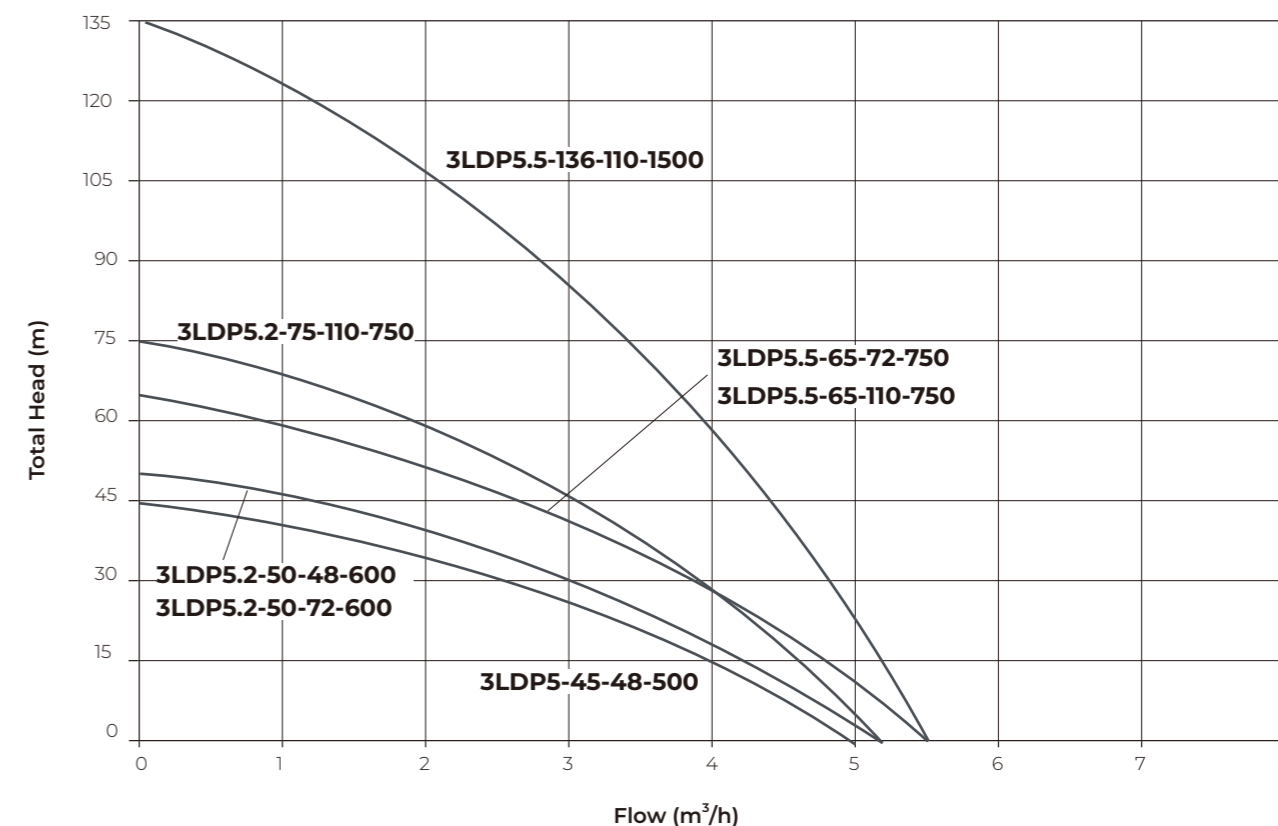
### 3" DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LDP3.8-123-72-1100	1100	72	90-120	3.8	123	1¼"	2	<150	≥1.3*Pump Power
3LDP3.8-123-110-1100	1100	110	110-150	3.8	123	1¼"	2	<200	≥1.3*Pump Power
3LDP3.8-155-110-1300	1300	110	110-150	3.8	155	1¼"	2	<200	≥1.3*Pump Power
3LDP3.8-180-110-1500	1500	110	110-150	3.8	180	1¼"	2	<200	≥1.3*Pump Power
3LDP3.5-195-110-1500	1500	110	110-150	3.5	195	1¼"	2	<200	≥1.3*Pump Power

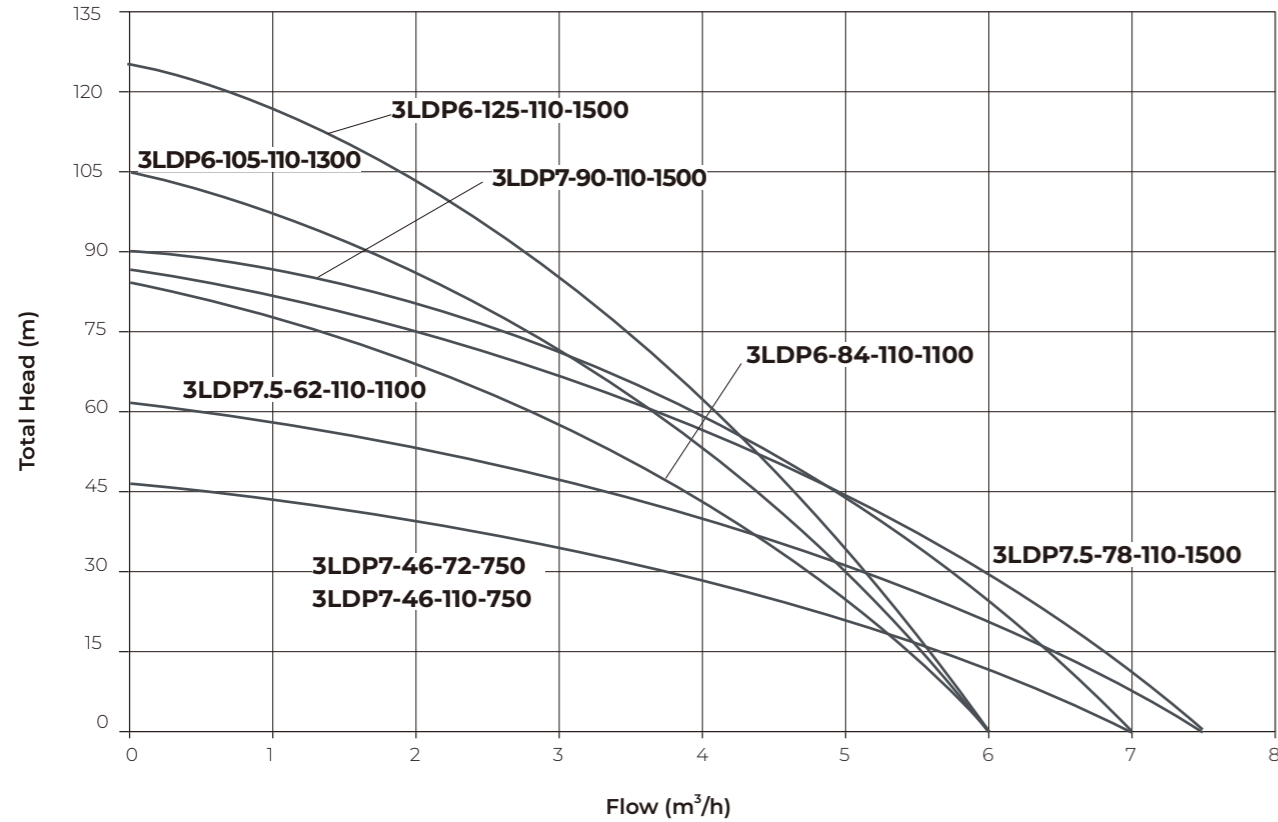
### 3" DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LDP5-45-48-500	500	48	60-90	5	45	1½"	2	<100	≥1.3*Pump Power
3LDP5.2-50-48-600	600	48	60-90	5.2	50	1½"	2	<100	≥1.3*Pump Power
3LDP5.2-50-72-600	600	72	90-120	5.2	50	1½"	2	<150	≥1.3*Pump Power
3LDP5.2-75-110-750	750	110	110-150	5.2	75	1½"	2	<200	≥1.3*Pump Power
3LDP5.5-65-72-750	750	72	90-120	5.5	65	1½"	2	<150	≥1.3*Pump Power
3LDP5.5-65-110-750	750	110	110-150	5.5	65	1½"	2	<200	≥1.3*Pump Power
3LDP5.5-136-110-1500	1500	110	110-150	5.5	136	1½"	2	<200	≥1.3*Pump Power

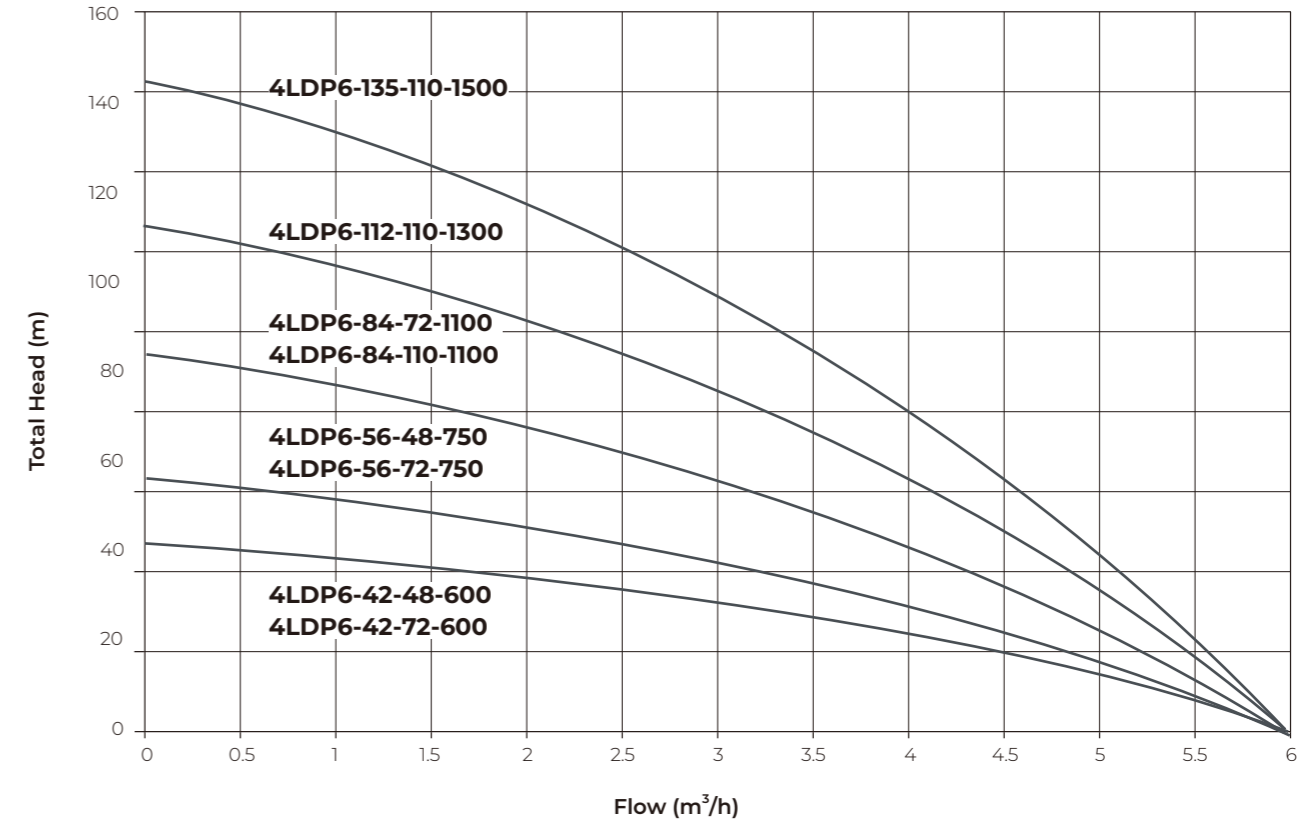
### 3" DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LDP6-84-110-1100	1100	110	110-150	6	84	1½"	2	<200	≥1.3*Pump Power
3LDP6-105-110-1300	1300	110	110-150	6	105	1½"	2	<200	≥1.3*Pump Power
3LDP6-125-110-1500	1500	110	110-150	6	125	1½"	2	<200	≥1.3*Pump Power
3LDP7-46-72-750	750	72	90-120	7	46	1½"	2	<150	≥1.3*Pump Power
3LDP7-46-110-750	750	110	110-150	7	46	1½"	2	<200	≥1.3*Pump Power
3LDP7.5-62-110-1100	1100	110	110-150	7.5	62	1½"	2	<200	≥1.3*Pump Power
3LDP7.5-78-110-1500	1500	110	110-150	7.5	78	1½"	2	<200	≥1.3*Pump Power
3LDP7-90-110-1500	1500	110	110-150	7	90	1½"	2	<200	≥1.3*Pump Power

### 4" DC Solar Pump with Plastic Impeller

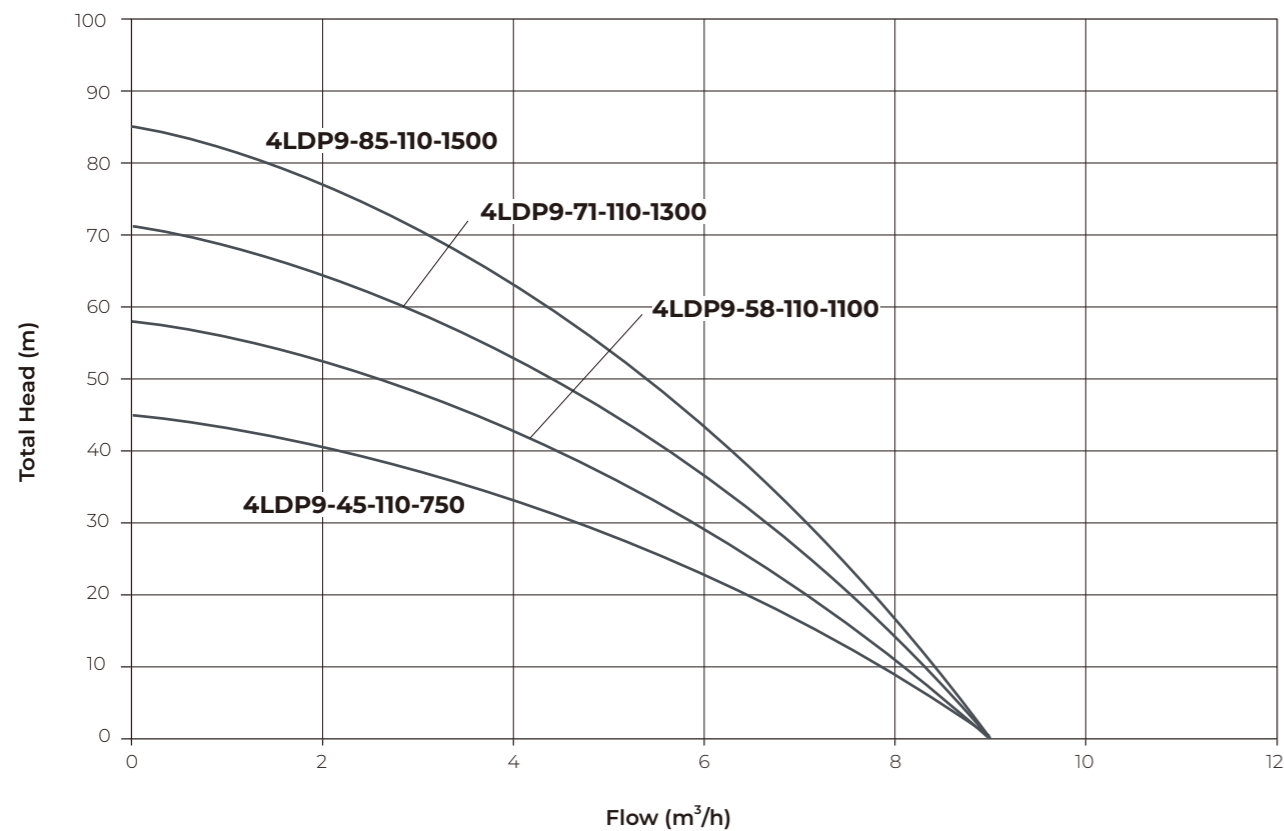


#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDP6-42-48-600	600	48	60-90	6	42	1¼"	2	< 100	≥1.3*Pump Power
4LDP6-42-72-600	600	72	90-120	6	42	1¼"	2	< 150	≥1.3*Pump Power
4LDP6-56-48-750	750	48	60-90	6	56	1¼"	2	< 100	≥1.3*Pump Power
4LDP6-56-72-750	750	72	90-120	6	56	1¼"	2	< 150	≥1.3*Pump Power
4LDP6-84-72-1100	1100	72	90-120	6	84	1¼"	2	< 150	≥1.3*Pump Power
4LDP6-84-110-1100	1100	110	110-150	6	84	1¼"	2	<200	≥1.3*Pump Power
4LDP6-112-110-1300	1300	110	110-150	6	112	1¼"	2	<200	≥1.3*Pump Power
4LDP6-135-110-1500	1500	110	110-150	6	135	1¼"	2	<200	≥1.3*Pump Power



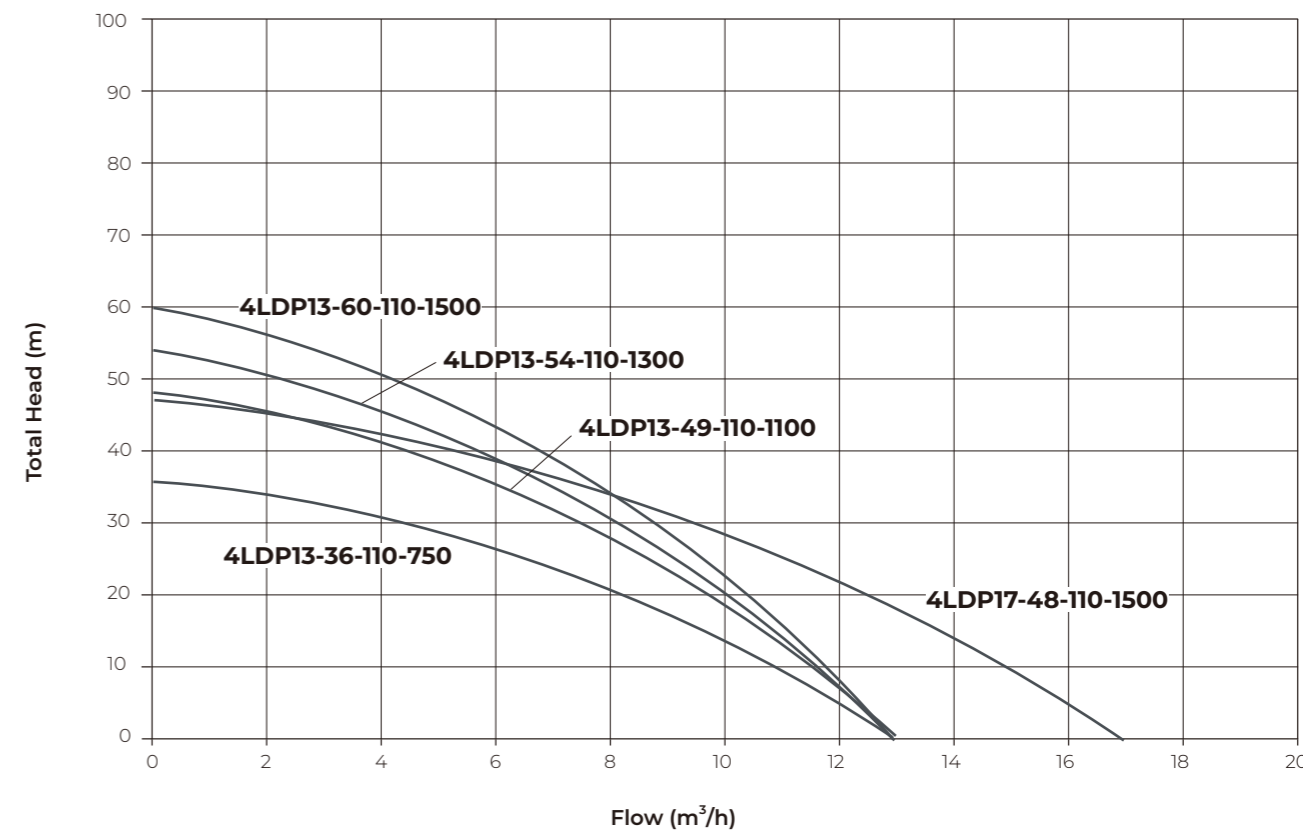
### 4" DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDP9-45-110-750	750	110	110-150	9	45	2"	2	<200	≥1.3*Pump Power
4LDP9-58-110-1100	1100	110	110-150	9	58	2"	2	<200	≥1.3*Pump Power
4LDP9-71-110-1300	1300	110	110-150	9	71	2"	2	<200	≥1.3*Pump Power
4LDP9-85-110-1500	1500	110	110-150	9	85	2"	2	<200	≥1.3*Pump Power

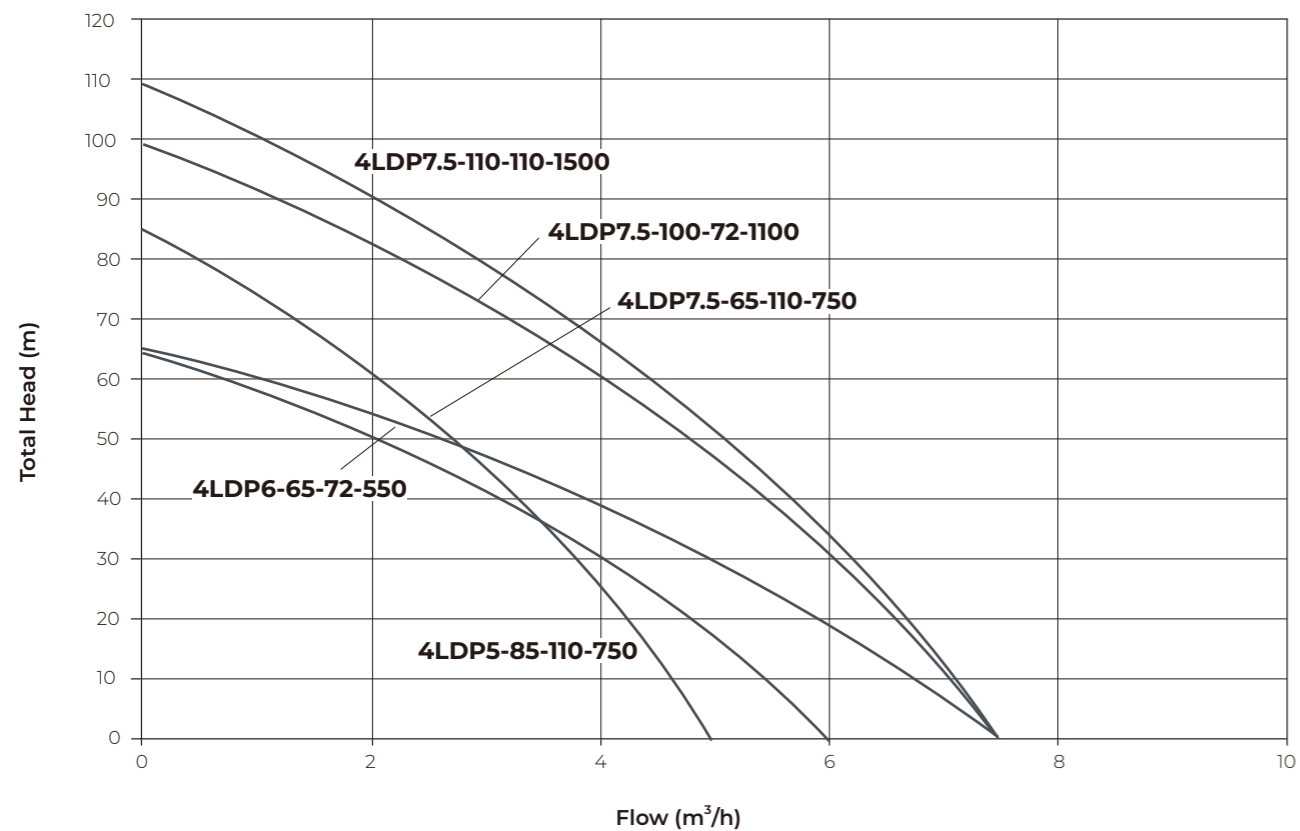
### 4" DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDP13-36-110-750	750	110	110-150	13	36	2"	2	<200	≥1.3*Pump Power
4LDP13-49-110-1100	1100	110	110-150	13	49	2"	2	<200	≥1.3*Pump Power
4LDP13-54-110-1300	1300	110	110-150	13	54	2"	2	<200	≥1.3*Pump Power
4LDP13-60-110-1500	1500	110	110-150	13	60	2"	2	<200	≥1.3*Pump Power
4LDP17-48-110-1500	1500	110	110-150	17	48	2"	2	<200	≥1.3*Pump Power

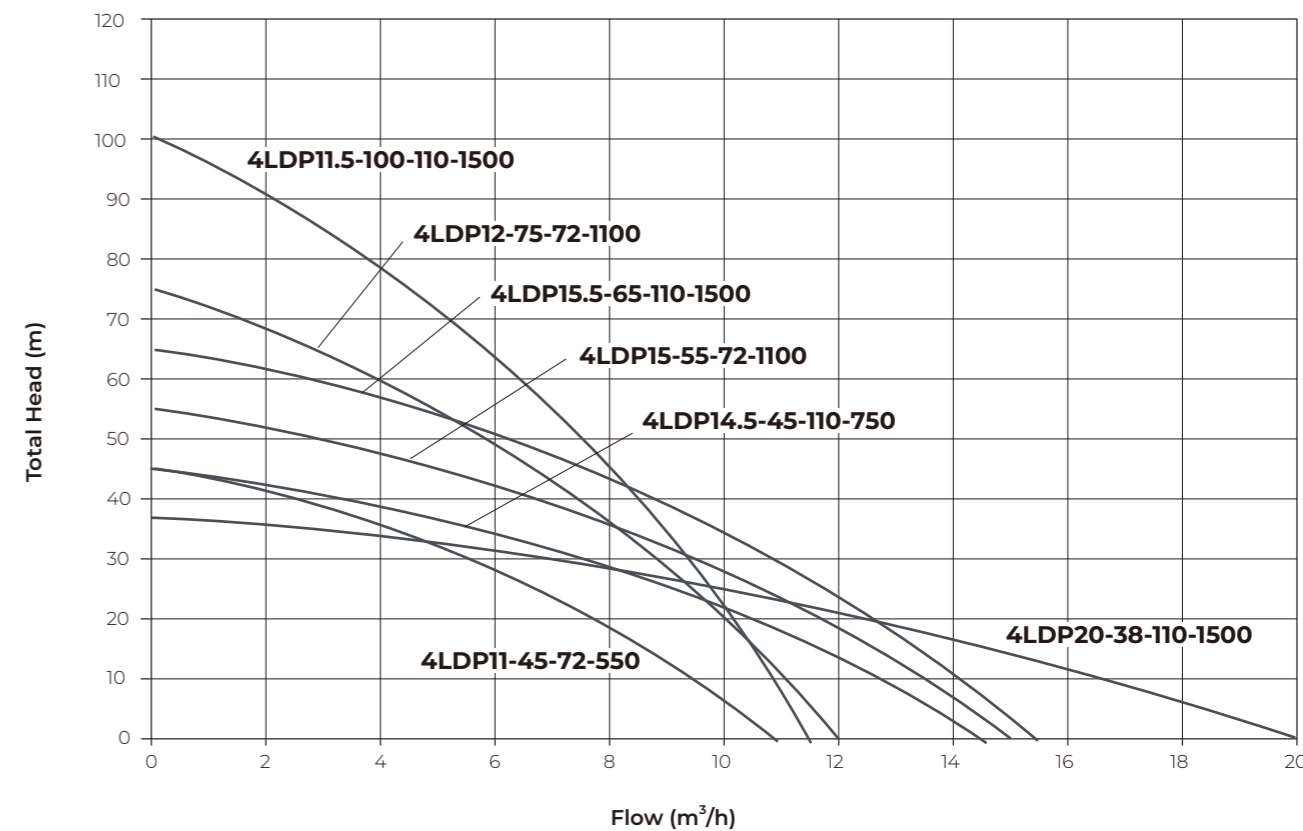
### 4" DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDP5-85-110-750	750	110	110-150	5	85	2"	2	<200	≥1.3*Pump Power
4LDP6-65-72-550	550	72	90-120	6	65	2"	2	<150	≥1.3*Pump Power
4LDP7.5-65-110-750	750	110	110-150	7.5	65	2"	2	<200	≥1.3*Pump Power
4LDP7.5-100-72-1100	1100	72	90-120	7.5	100	2"	2	<150	≥1.3*Pump Power
4LDP7.5-110-110-1500	1500	110	110-150	7.5	110	2"	2	<200	≥1.3*Pump Power

### 4" DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDP11-45-72-550	550	72	90-120	11	45	2"	2	<150	≥1.3*Pump Power
4LDP12-75-72-1100	1100	72	90-120	12	75	2"	2	<150	≥1.3*Pump Power
4LDP11.5-100-110-1500	1500	110	110-150	11.5	100	2"	2	<200	≥1.3*Pump Power
4LDP14.5-45-110-750	750	110	110-150	14.5	45	2"	2	<200	≥1.3*Pump Power
4LDP15-55-72-1100	1100	72	90-120	15	55	2"	2	<150	≥1.3*Pump Power
4LDP15.5-65-110-1500	1500	110	110-150	15.5	65	2"	2	<200	≥1.3*Pump Power
4LDP20-38-110-1500	1500	110	110-150	20	38	2"	2	<200	≥1.3*Pump Power

### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system

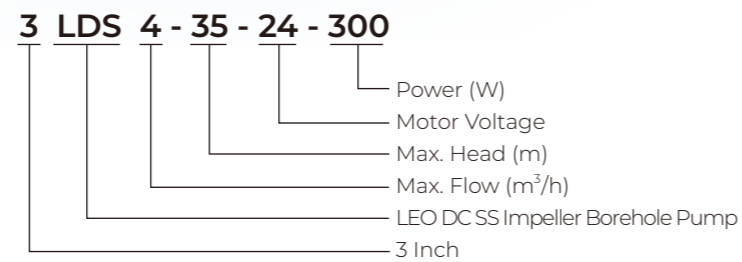
### Pump Features

- With MPPT DC controller
- AISI304 impeller and diffuser
- AISI304 oil chamber & outlet
- NSK bearing
- High efficiency PMSM brushless motor  
(PMSM: Permanent Magnet Synchronous Motor)

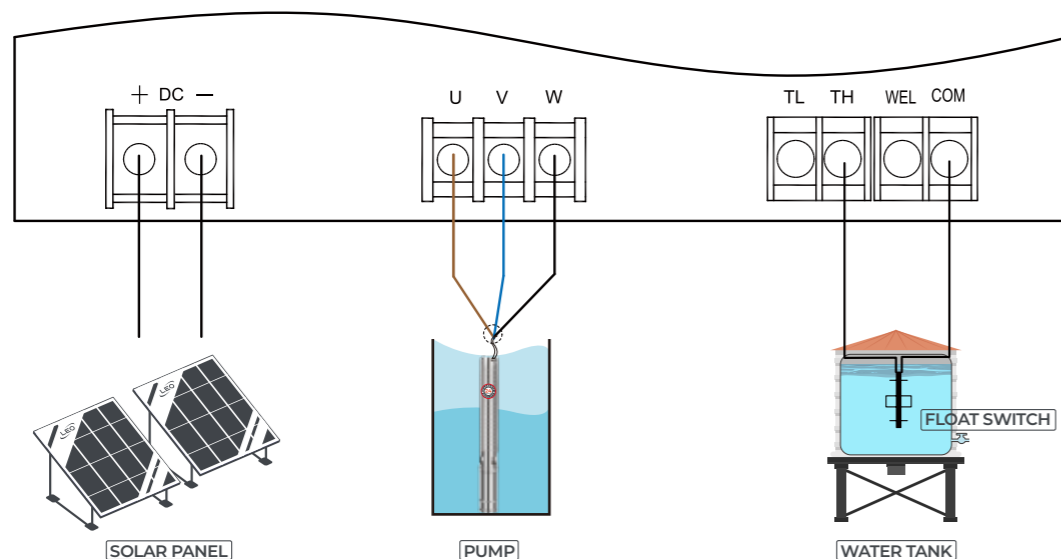
### MPPT DC Controller

- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

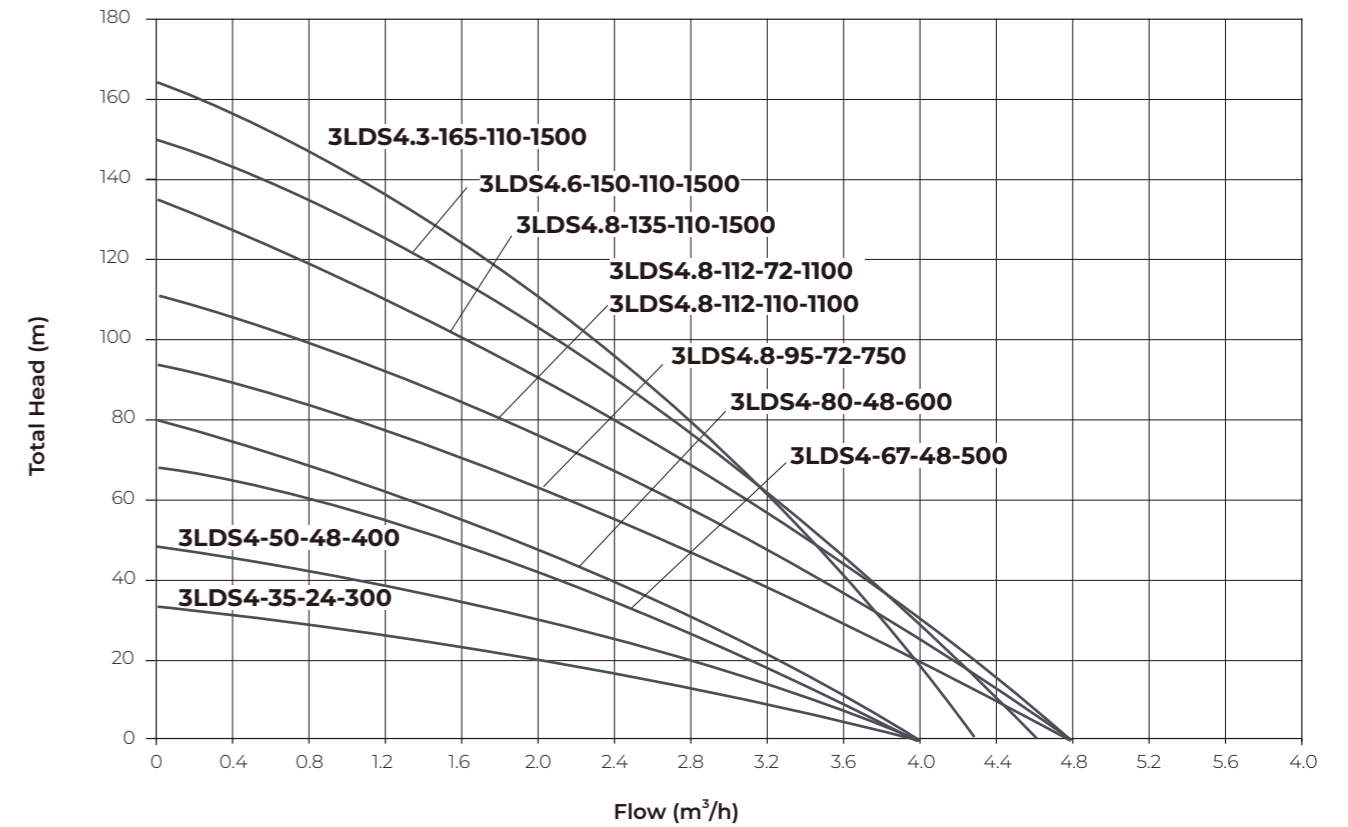
### Identification Codes



### Wiring Diagram



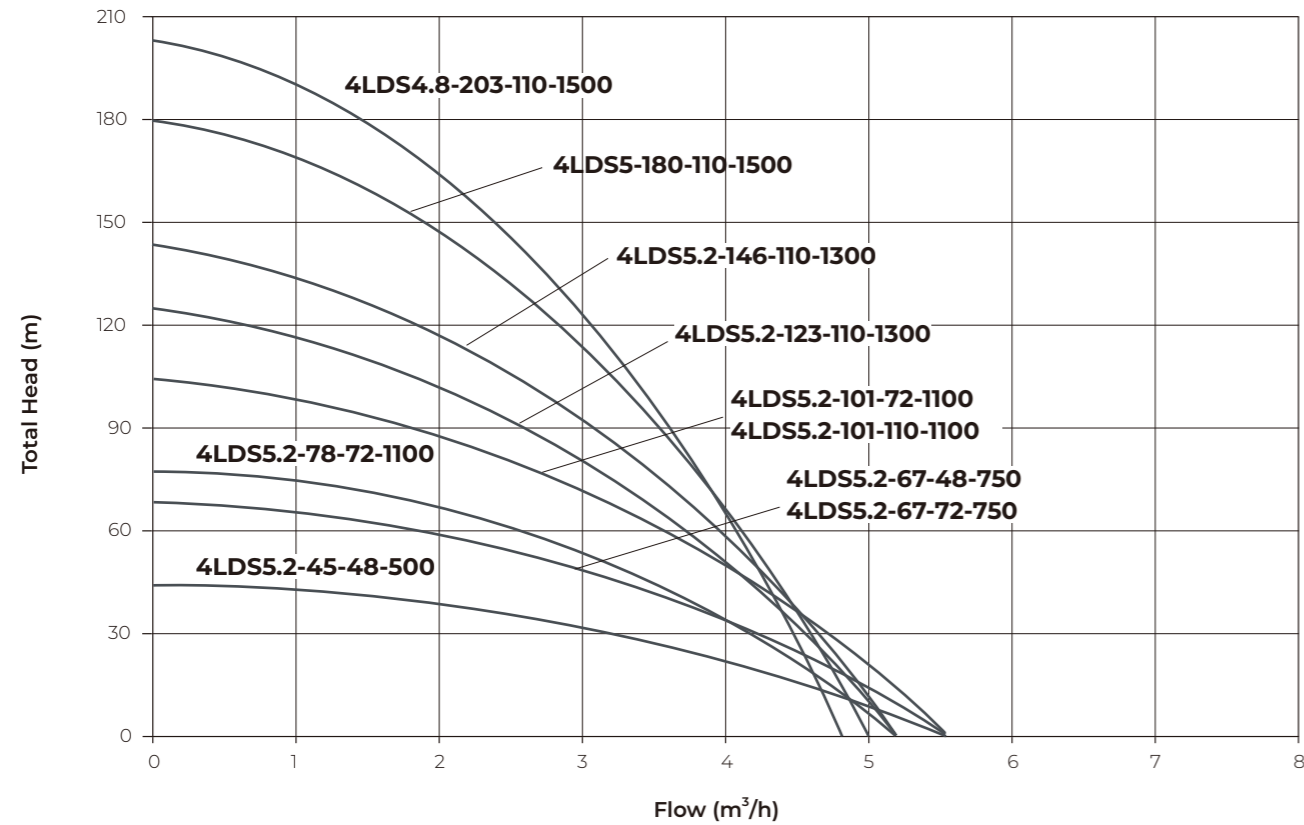
### 3" DC Solar Pump with SS Impeller



### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LDS4-35-24-300	300	24	30-48	4	35	1¼"	2	<50	≥1.3*Pump Power
3LDS4-50-48-400	400	48	60-90	4	50	1¼"	2	<100	≥1.3*Pump Power
3LDS4-67-48-500	500	48	60-90	4	67	1¼"	2	<100	≥1.3*Pump Power
3LDS4-80-48-600	600	48	60-90	4	80	1¼"	2	<100	≥1.3*Pump Power
3LDS4.8-95-72-750	750	72	90-120	4.8	95	1¼"	2	<150	≥1.3*Pump Power
3LDS4.8-112-72-1100	1100	72	90-120	4.8	112	1¼"	2	<150	≥1.3*Pump Power
3LDS4.8-112-110-1100	1100	110	110-150	4.8	112	1¼"	2	<200	≥1.3*Pump Power
3LDS4.8-135-110-1500	1500	110	110-150	4.8	135	1¼"	2	<200	≥1.3*Pump Power
3LDS4.6-150-110-1500	1500	110	110-150	4.6	150	1¼"	2	<200	≥1.3*Pump Power
3LDS4.3-165-110-1500	1500	110	110-150	4.3	165	1¼"	2	<200	≥1.3*Pump Power

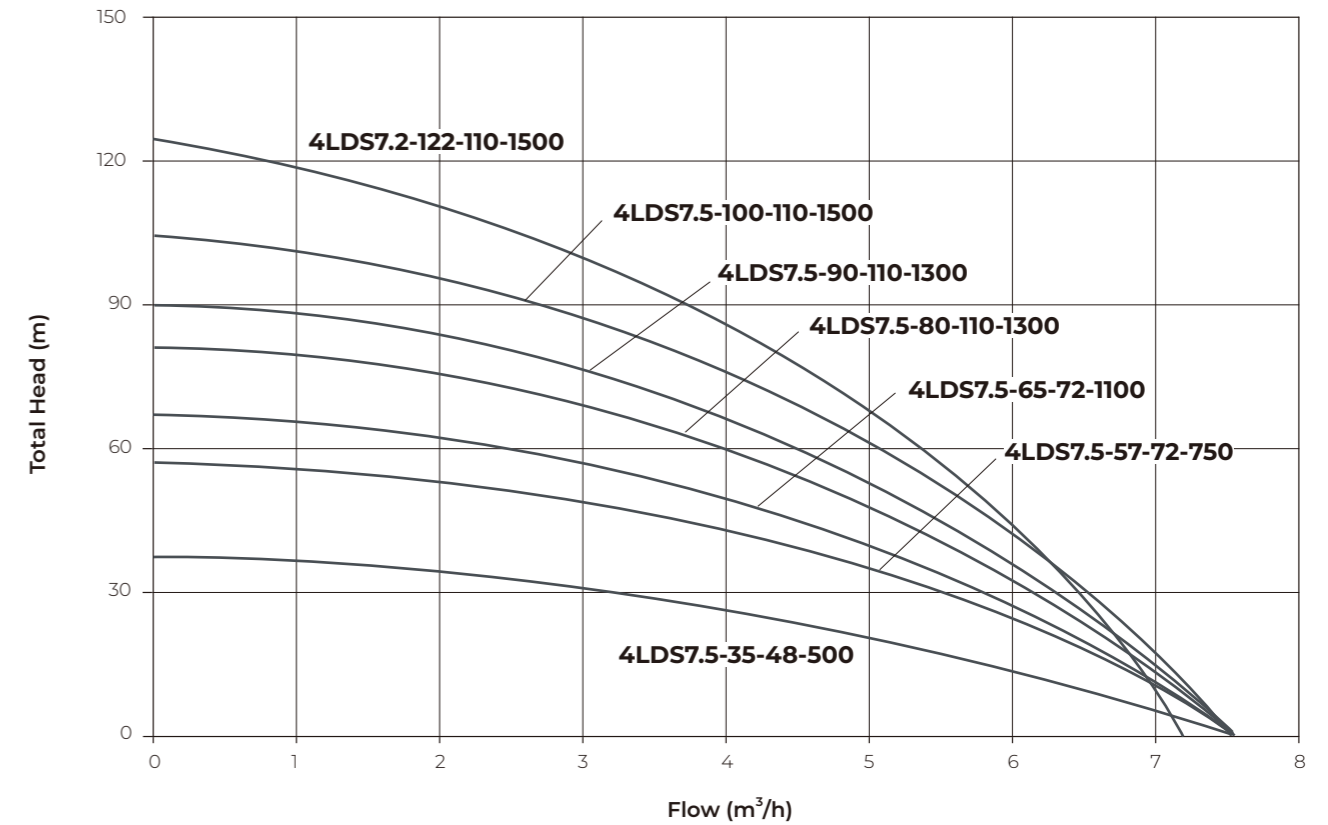
4" DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDS5.2-45-48-500	500	48	60-90	5.5	45	1¼"	2	<100	≥1.3*Pump Power
4LDS5.2-67-48-750	750	48	60-90	5.5	67	1¼"	2	<100	≥1.3*Pump Power
4LDS5.2-67-72-750	750	72	90-120	5.5	67	1¼"	2	<150	≥1.3*Pump Power
4LDS5.2-78-72-1100	1100	72	90-120	5.2	78	1¼"	2	<150	≥1.3*Pump Power
4LDS5.2-101-72-1100	1100	72	90-120	5.5	101	1¼"	2	<150	≥1.3*Pump Power
4LDS5.2-101-110-1100	1100	110	110-150	5.5	101	1¼"	2	<200	≥1.3*Pump Power
4LDS5.2-123-110-1300	1300	110	110-150	5.2	123	1¼"	2	<200	≥1.3*Pump Power
4LDS5.2-146-110-1300	1300	110	110-150	5.2	146	1¼"	2	<200	≥1.3*Pump Power
4LDS5-180-110-1500	1500	110	110-150	5	180	1¼"	2	<200	≥1.3*Pump Power
4LDS4.8-203-110-1500	1500	110	110-150	4.8	203	1¼"	2	<200	≥1.3*Pump Power

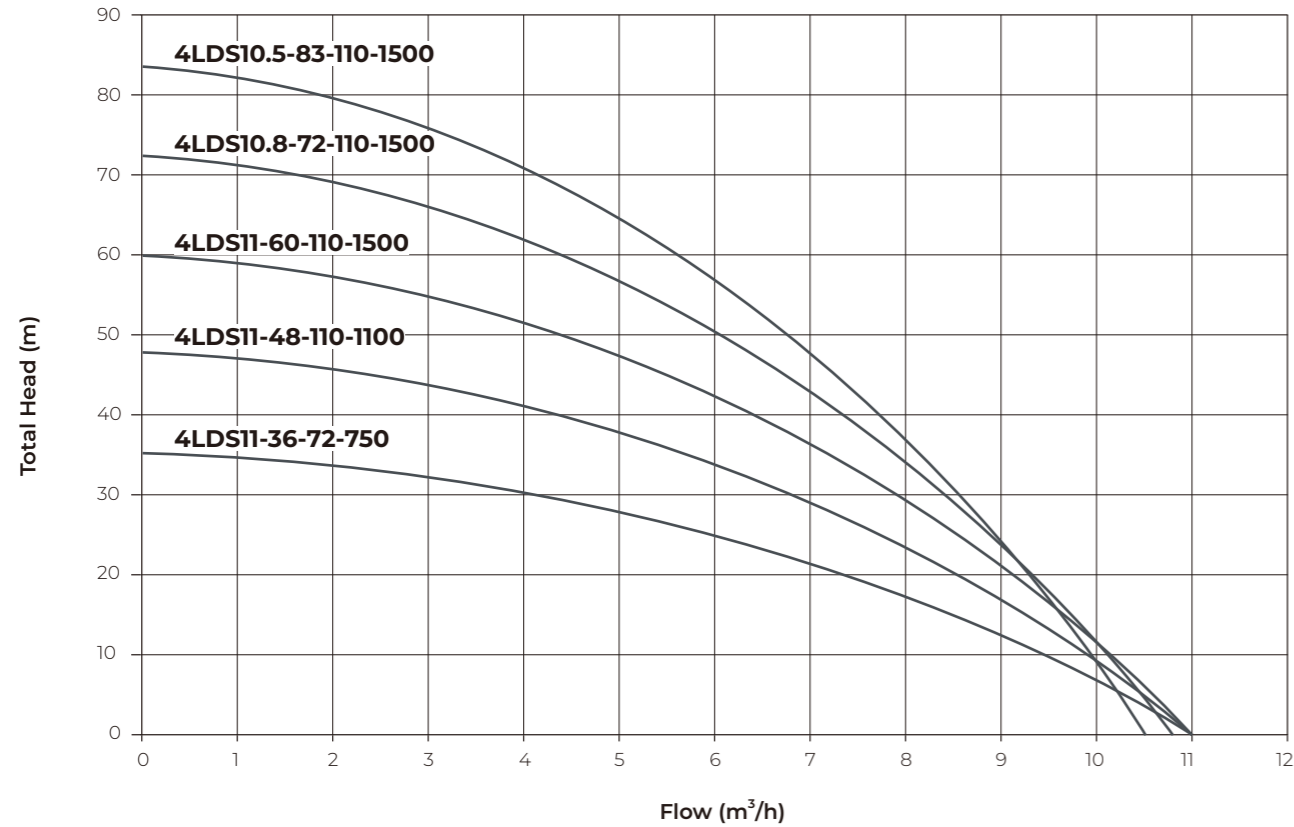
4" DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDS7.5-35-48-500	500	48	60-90	7.5	35	1¼"	2	<100	≥1.3*Pump Power
4LDS7.5-57-72-750	750	72	90-120	7.5	57	1¼"	2	<150	≥1.3*Pump Power
4LDS7.5-65-72-1100	1100	72	90-120	7.5	65	1¼"	2	<150	≥1.3*Pump Power
4LDS7.5-80-110-1300	1300	110	110-150	7.5	80	1¼"	2	<200	≥1.3*Pump Power
4LDS7.5-90-110-1300	1300	110	110-150	7.5	90	1¼"	2	<200	≥1.3*Pump Power
4LDS7.5-100-110-1500	1500	110	110-150	7.5	100	1¼"	2	<200	≥1.3*Pump Power
4LDS7.2-122-110-1500	1500	110	110-150	7.2	122	1¼"	2	<200	≥1.3*Pump Power

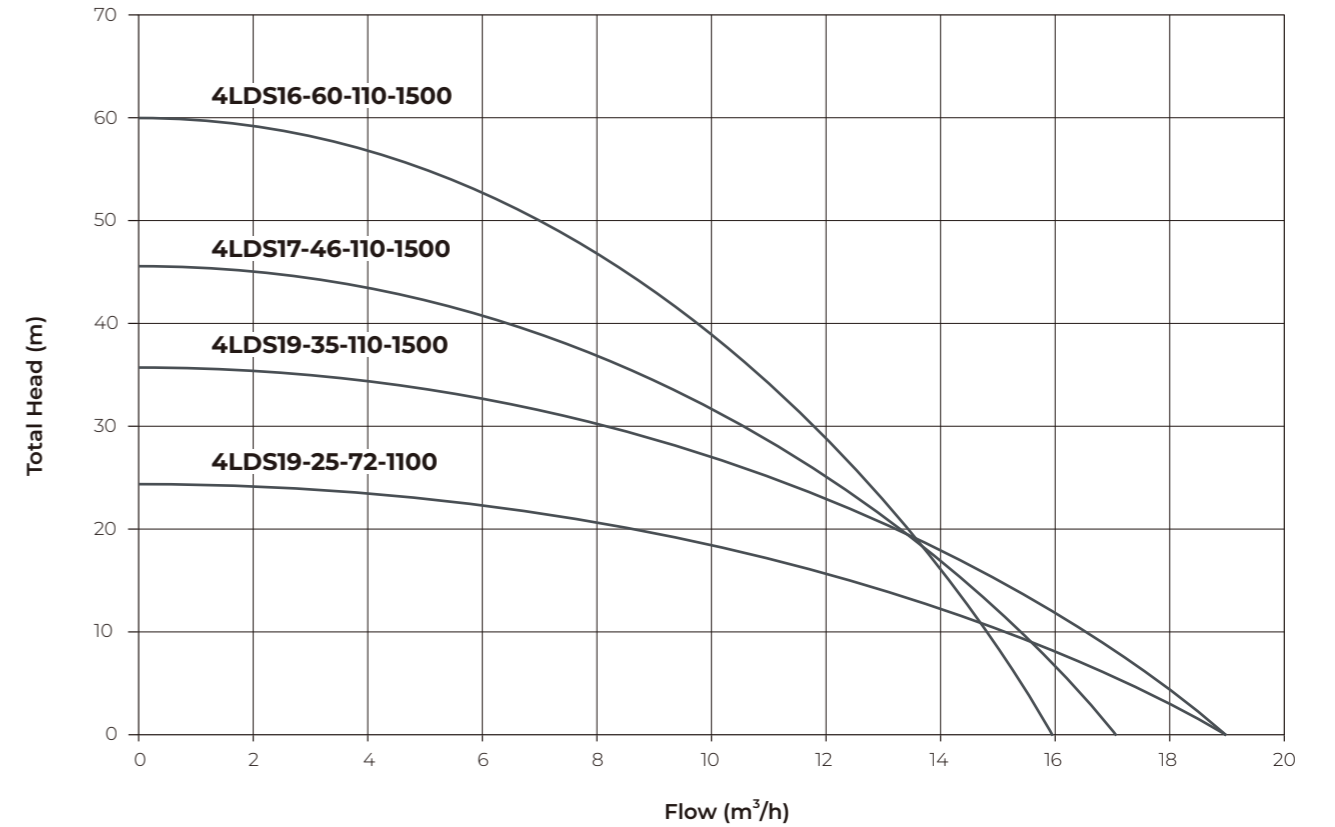
4" DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDS11-36-72-750	750	72	90-120	11	36	2"	2	<150	≥1.3*Pump Power
4LDS11-48-110-1100	1100	110	110-150	11	48	2"	2	<200	≥1.3*Pump Power
4LDS11-60-110-1500	1500	110	110-150	11	60	2"	2	<200	≥1.3*Pump Power
4LDS10.8-72-110-1500	1500	110	110-150	10.8	72	2"	2	<200	≥1.3*Pump Power
4LDS10.5-83-110-1500	1500	110	110-150	10.5	83	2"	2	<200	≥1.3*Pump Power

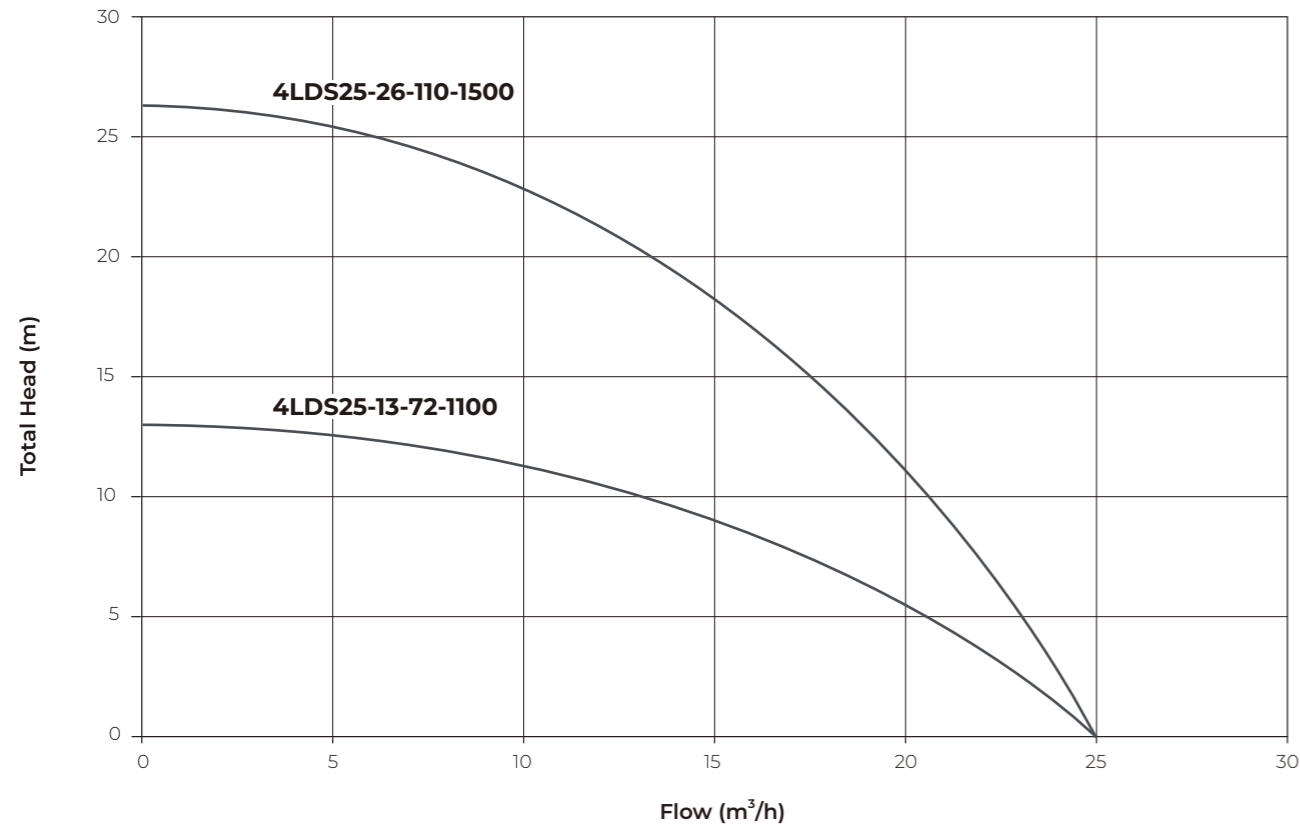
4" DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDS19-25-72-1100	1100	72	90-120	19	25	2"	2	<150	≥1.3*Pump Power
4LDS19-35-110-1500	1500	110	110-150	19	35	2"	2	<200	≥1.3*Pump Power
4LDS17-46-110-1500	1500	110	110-150	17	46	2"	2	<200	≥1.3*Pump Power
4LDS16-60-110-1500	1500	110	110-150	16	60	2"	2	<200	≥1.3*Pump Power

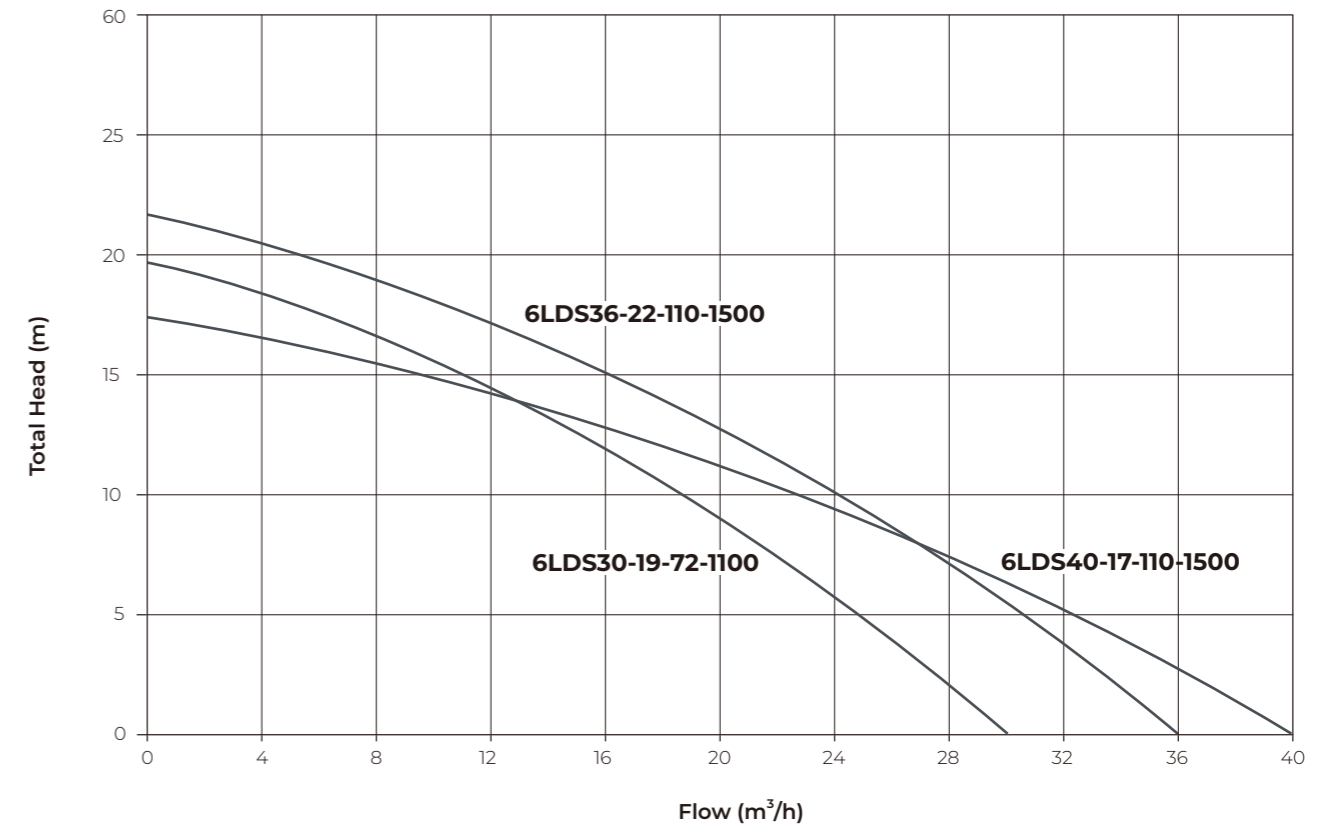
**4" DC Solar Pump with SS Impeller**



**Technical Data**

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LDS25-13-72-1100	1100	72	90-120	25	13	2"	2	<150	≥1.3*Pump Power
4LDS25-26-110-1500	1500	110	110-150	25	26	2"	2	<200	≥1.3*Pump Power

**6" DC Solar Pump with SS Impeller**



**Technical Data**

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
6LDS30-19-72-1100	1100	72	90-120	30	19	3"	2	<200	≥1.3*Pump Power
6LDS36-22-110-1500	1500	110	110-150	36	22	3"	2	<200	≥1.3*Pump Power
6LDS40-17-110-1500	1500	110	110-150	40	17	3"	2	<200	≥1.3*Pump Power



## DSFP Intelligent Inverter Features For AC/DC Submersible Borehole Pump



### Cost Saving

- Easy installation & Low installation cost
- Easy operation & Low maintenance cost
- High efficiency with **MPPT** function
- Save grid electricity

### 4 Operation Mode

- Only DC mode
- Only AC mode
- Auto mode (Automatically switch to AC when DC power is poor)
- Hybrid mode (AC and DC Coordinate)

### High Reliability

- Soft start to prevent water hammer and increase system life
- LCD screen showing running status
- Fault self diagnosis and display
- Multiple protection
- 2 Float switch available

### High Compatibility

- Compatible with both DC and AC motor (1~Phase & 3~Phase)
- Compatible with popular solar arrays
- Compatible with AC power of generator
- Active air cooling
- Can be used for cabinet installation

## Technical Data

ITEMS	DSFP-110-0.75(G)	DSFP-150-1.1(G)	DSFP-150-1.3(G)	DSFP-200-1.3(G)	DSFP-200-1.5(G)	DSFP-300-2.2(G)
<b>Input Parameters</b>						
DC Input Voltage	90-200V DC	90-300V DC	90-300V DC	150-380V DC	150-380V DC	200-430V DC
MPPT Voltage Range	120-170V DC	160-280V DC	160-280V DC	210-320V DC	210-320V DC	310-365V DC
AC Input Voltage	80~280V / 45~65Hz / 1 Phase					
DC Input Voltage At Hybrid Mode	DC>AC*1.5					
Max. Current	12 A	12 A	12 A	12 A	12 A	12 A
Peak current	17 A	17 A	17 A	17 A	17 A	17 A
<b>Output Parameters</b>						
Max. Output Power	DC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.8 kW
	AC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.2 kW
	Hybrid Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.2 kW
Rated Output Voltage	3~Phase, 90V~220V					
	1~Phase, 60V~220V					
Max. Current	12 A	12 A	12 A	12 A	12 A	12 A
Rated Current	10 A	10 A	10 A	10 A	10 A	10 A
Speed Range	500~4000 rpm					
<b>Other Parameters</b>						
Protect Functions	① Dry-Run Protection ② Over/Low Voltage Protection ③ Lighting Protection ④ Over/Short Circuit Protection ⑤ Surge Protection ⑥ Over Temperature Protection (Over Temperature Frequency Reduction) ⑦ Output Phase Lose Protection					
Other Functions	① AC/DC Complementary Mode ② Compatible with Synchronous & Asynchronous motor ③ Internal Temperature Display ④ Frequency Reduction Temperature Setting ⑤ Impeller Cleaning Function ⑥ Fault Record Query ⑦ Current Setting of Dry Running Protection ⑧ Float Switch Status Display ⑨ GPRS Remote Monitor Function Optional					
Protection Class	IP55					
Standby Power	< 5W					
Installation Method	Wall Mounted					
Package Info. (L*W*H)	365x275x165 mm					
Package Info. (GW)	3.7 kg					



## DSFP Intelligent Inverter Features For AC/DC Surface Pump



### Cost Saving

- Easy installation & Low installation cost
- Easy operation & Low maintenance cost
- High efficiency with **MPPT** function
- Save grid electricity

### 4 Operation Mode

- Only DC mode
- Only AC mode
- Auto mode (Automatically switch to AC when DC power is poor)
- Hybrid mode (AC and DC Coordinate)

### High Reliability

- Soft start to prevent water hammer and increase system life
- LCD screen showing running status
- Fault self diagnosis and display
- Multiple protection
- 2 Float switch available

### High Compatibility

- Compatible with both DC and AC motor (1~Phase & 3~Phase)
- Compatible with popular solar arrays
- Compatible with AC power of generator
- Active air cooling
- Can be used for cabinet installation

## Technical Data

ITEMS	DSFP/L-110-0.75(G)	DSFP/L-110-0.9(G)	DSFP/L-150-1.1(G)	DSFP/L-150-1.2(G)	DSFP/L-200-1.5(G)
<b>Input Parameters</b>					
DC Input Voltage	90-200V DC	90-200V DC	90-300V DC	90-300V DC	150-380V DC
MPPT Voltage Range	120-170V DC	120-170V DC	160-280V DC	160-280V DC	210-320V DC
AC Input Voltage	80~280V / 45~65Hz / 1 Phase				
DC Input Voltage At Hybrid Mode	DC>AC*1.5				
Max. Current	12 A	12 A	12 A	12 A	12 A
Peak current	17 A	17 A	17 A	17 A	17 A
<b>Output Parameters</b>					
Max. Output Power	DC Mode	0.8 kW	1.2 kW	1.3 kW	1.6 kW
	AC Mode	0.8 kW	1.2 kW	1.3 kW	1.3 kW
	Hybrid Mode	0.8 kW	1.2 kW	1.3 kW	1.3 kW
Rated Output Voltage	3~Phase, 90V~220V				
	1~Phase, 60V~220V				
Max. Current	12 A	12 A	12 A	12 A	12 A
Rated Current	10 A	10 A	10 A	10 A	10 A
Speed Range	500~3600 rpm				
<b>Other Parameters</b>					
Protect Functions	① Dry-Run Protection ② Over/Low Voltage Protection ③ Lighting Protection ④ Over/Short Circuit Protection ⑤ Surge Protection ⑥ Over Temperature Protection (Over Temperature Frequency Reduction) ⑦ Output Phase Lose Protection				
Other Functions	① AC/DC Complementary Mode ② Compatible with Synchronous & Asynchronous motor ③ Internal Temperature Display ④ Frequency Reduction Temperature Setting ⑤ Impeller Cleaning Function ⑥ Fault Record Query ⑦ Current Setting of Dry Running Protection ⑧ Float Switch Status Display ⑨ GPRS Remote Monitor Function Optional				
Protection Class	IP55				
Standby Power	< 5W				
Installation Method	Wall Mounted				
Package Info. (L*W*H)	365x275x165 mm				
Package Info. (GW)	3.7 kg				



## DSFP-V Intelligent Inverter Features For AC/DC Submersible Borehole Pump

### Voltage boost function



### Cost Saving

- Easy installation & Low installation cost
- Easy operation & Low maintenance cost
- High efficiency with MPPT function
- Save grid electricity

### High Reliability

- Soft start to prevent water hammer and increase system life
- LCD screen showing running status
- Fault self diagnosis and display
- Multiple protection
- 2 Float switch available

### 4 Operation Mode

- Only DC mode
- Only AC mode
- Auto mode (Automatically switch to AC when DC power is poor)
- Hybrid mode (AC and DC Coordinate)

### High Compatibility

- Compatible with both DC and AC motor (1~Phase & 3~Phase)
- Compatible with popular solar arrays
- Compatible with AC power of generator
- Active air cooling
- Can be used for cabinet installation
- Compatible with low input voltage

### Technical Data

ITEMS	DSFP-V -110-0.75(G)	DSFP-V -150-1.1(G)	DSFP-V -150-1.3(G)	DSFP-V -200-1.3(G)	DSFP-V -200-1.5(G)	DSFP-V -300-2.2(G)
<b>Input Parameters</b>						
DC Input Voltage	90-200V DC	90-300V DC	90-300V DC	90-380V DC	90-380V DC	120-430V DC
MPPT Voltage Range	75-170V DC	75-260V DC	75-260V DC	80-320V DC	80-320V DC	100-365V DC
AC Input Voltage	80~280V / 45~65Hz / 1 Phase					
DC Input Voltage At Hybrid Mode	DC>AC*1.5					
Max. Current	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A
Peak current	25 A	25 A	25 A	25 A	25 A	25 A
<b>Output Parameters</b>						
Max. Output Power	DC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.8 kW
	AC Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.2 kW
	Hybrid Mode	1.1 kW	1.5 kW	1.5 kW	2.0 kW	2.2 kW
Rated Output Voltage	3~Phase, 90V~220V					
	1~Phase, 60V~220V					
Max. Current	12 A	12 A	12 A	12 A	12 A	12 A
Rated Current	10 A	10 A	10 A	10 A	10 A	10 A
Speed Range	500~4000 rpm					
<b>Other Parameters</b>						
Protect Functions	① Dry-run protection ② Over/Low voltage protection ③ Lighting protection ④ Over/short circuit protection ⑤ Surge protection ⑥ Over temperature protection (Over temperature frequency reduction) ⑦ Output phase lose protection					
Other Functions	① AC/DC Complementary Mode ② Compatible with Synchronous Asynchronous motor ③ Internal temperature display ④ Frequency reduction temperature setting ⑤ Impeller cleaning function ⑥ Fault record query ⑦ Current setting of dry running protection ⑧ Float switch status display ⑨ GPRS Remote monitor function optional					
Protection Class	IP55					
Standby Power	< 5W					
Installation Method	Wall Mounted					
Package Info. (L*W*H)	365x275x165 mm					
Package Info. (GW)	3.7 kg					



## DSFP-V Intelligent Inverter Features For AC/DC Surface Pump

### Voltage boost function



### Cost Saving

- Easy installation & Low installation cost
- Easy operation & Low maintenance cost
- High efficiency with MPPT function
- Save grid electricity

### High Reliability

- Soft start to prevent water hammer and increase system life
- LCD screen showing running status
- Fault self diagnosis and display
- Multiple protection
- Float switch available

### 4 Operation Mode

- Only DC mode
- Only AC mode
- Auto mode (Automatically switch to AC when DC power is poor)
- Hybrid mode (AC and DC Coordinate)

### High Compatibility

- Compatible with both DC and AC motor (1~Phase & 3~Phase)
- Compatible with popular solar arrays
- Compatible with AC power of generator
- Active air cooling
- Can be used for cabinet installation
- Compatible with low input voltage

### Technical Data

ITEMS	DSFP/L-V -110-0.75(G)	DSFP/L-V -110-0.9(G)	DSFP/L-V -150-1.1(G)	DSFP/L-V -150-1.2(G)	DSFP/L-V -200-1.5(G)	
<b>Input Parameters</b>						
DC Input Voltage	90-200V DC	90-200V DC	90-300V DC	90-300V DC	90-380V DC	
MPPT Voltage Range	75-170V DC	75-170V DC	75-260V DC	75-260V DC	80-320V DC	
AC Input Voltage	80~280V / 45~65Hz / 1 Phase					
DC Input Voltage At Hybrid Mode	DC>AC*1.5					
Max. Current	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	DC:20A / AC:15A	
Peak current	25 A	25 A	25 A	25 A	25 A	
<b>Output Parameters</b>						
Max. Output Power	DC Mode	0.8 kW	1.2 kW	1.3 kW	1.6 kW	
	AC Mode	0.8 kW	1.2 kW	1.3 kW	1.3 kW	1.6 kW
	Hybrid Mode	0.8 kW	1.2 kW	1.3 kW	1.3 kW	1.6 kW
Rated Output Voltage	3~Phase, 90V~220V					
	1~Phase, 60V~220V					
Max. Current	12 A	12 A	12 A	12 A	12 A	
Rated Current	10 A	10 A	10 A	10 A	10 A	
Speed Range	500~3600 rpm					
<b>Other Parameters</b>						
Protect Functions	① Dry-run protection ② Over/Low voltage protection ③ Lighting protection ④ Over/short circuit protection ⑤ Surge protection ⑥ Over temperature protection (Over temperature frequency reduction) ⑦ Output phase lose protection					
Other Functions	① AC/DC Complementary Mode ② Compatible with Synchronous Asynchronous motor ③ Internal temperature display ④ Frequency reduction temperature setting ⑤ Impeller cleaning function ⑥ Fault record query ⑦ Current setting of dry running protection ⑧ Float switch status display ⑨ GPRS Remote monitor function optional					
Protection Class	IP55					
Standby Power	< 5W					
Installation Method	Wall Mounted					
Package Info. (L*W*H)	365x275x165 mm					
Package Info. (GW)	3.7 kg					



### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system

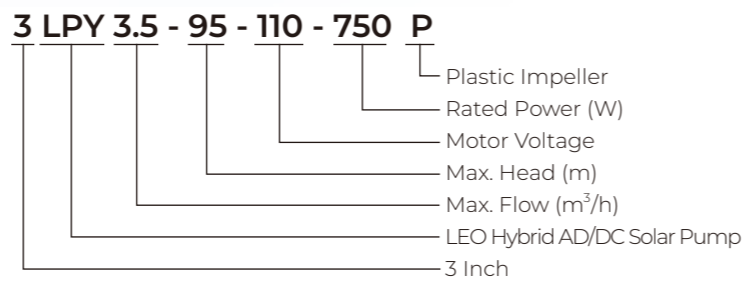
### Pump Features

- With MPPT AC/DC Controller
- Plastic Impeller and diffuser
- AISI304 oil chamber & outlet
- NSK Bearing
- High efficiency PMSM brushless motor  
(PMSM: Permanent Magnet Synchronous Motor)

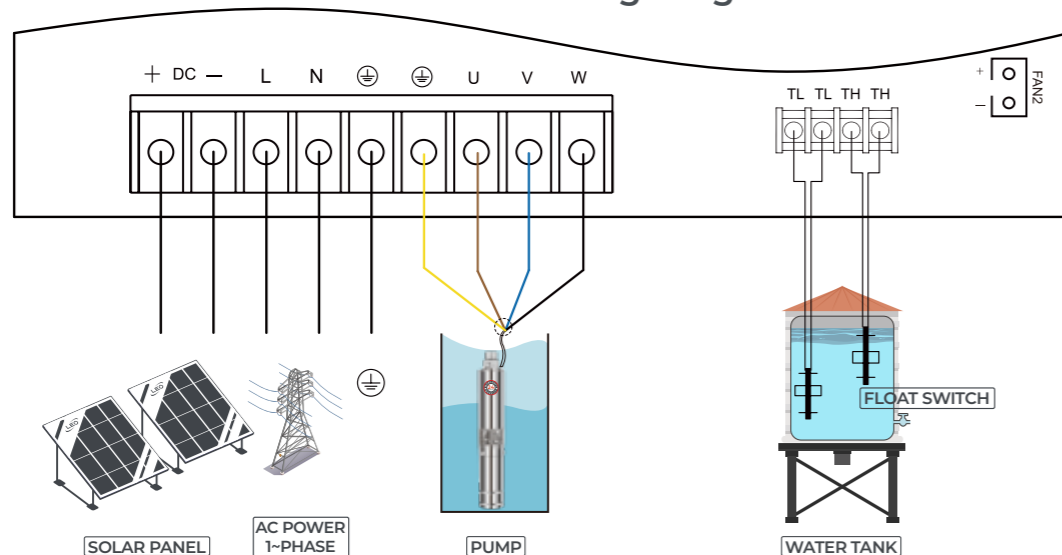
### MPPT AC/DC Controller

- Can be used for both AC and DC power supply
- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

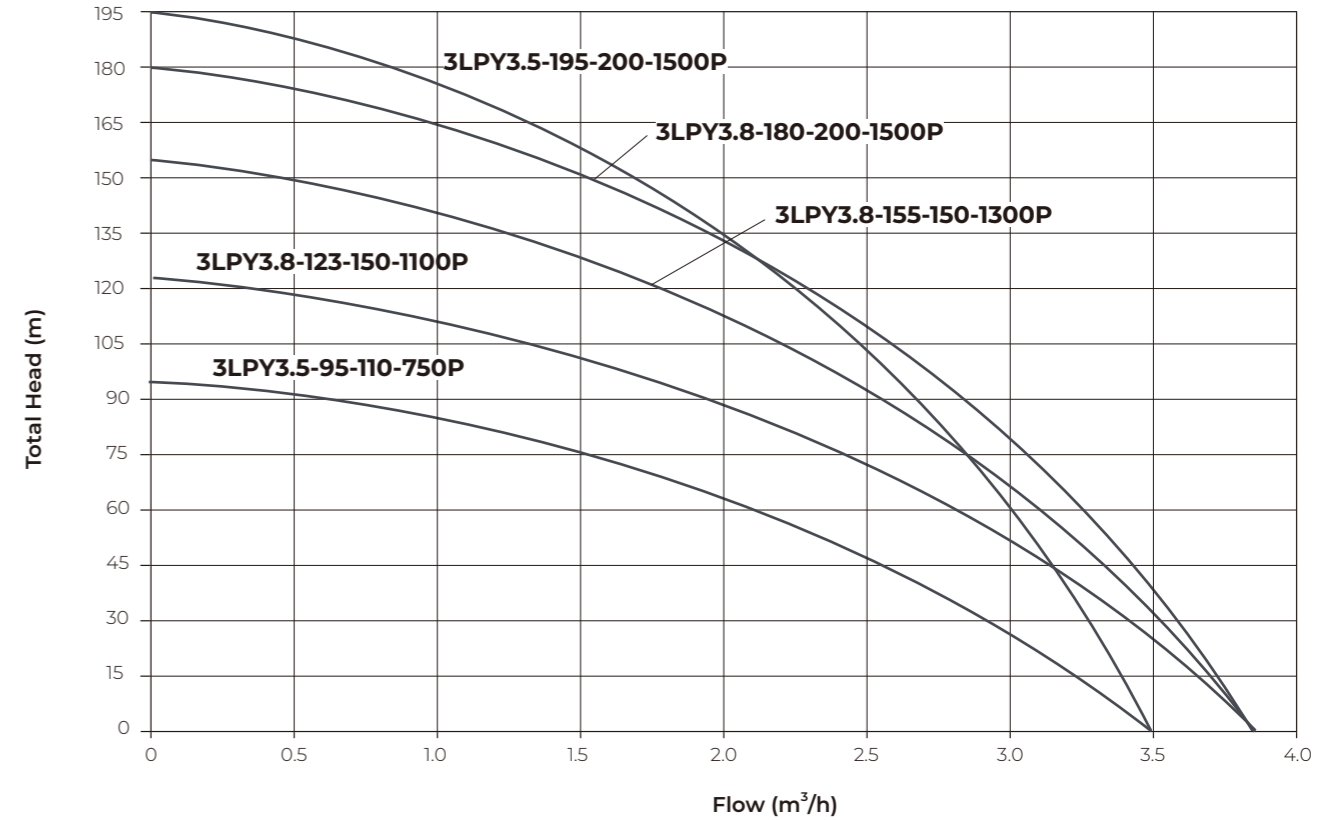
### Identification Codes



### Wiring Diagram



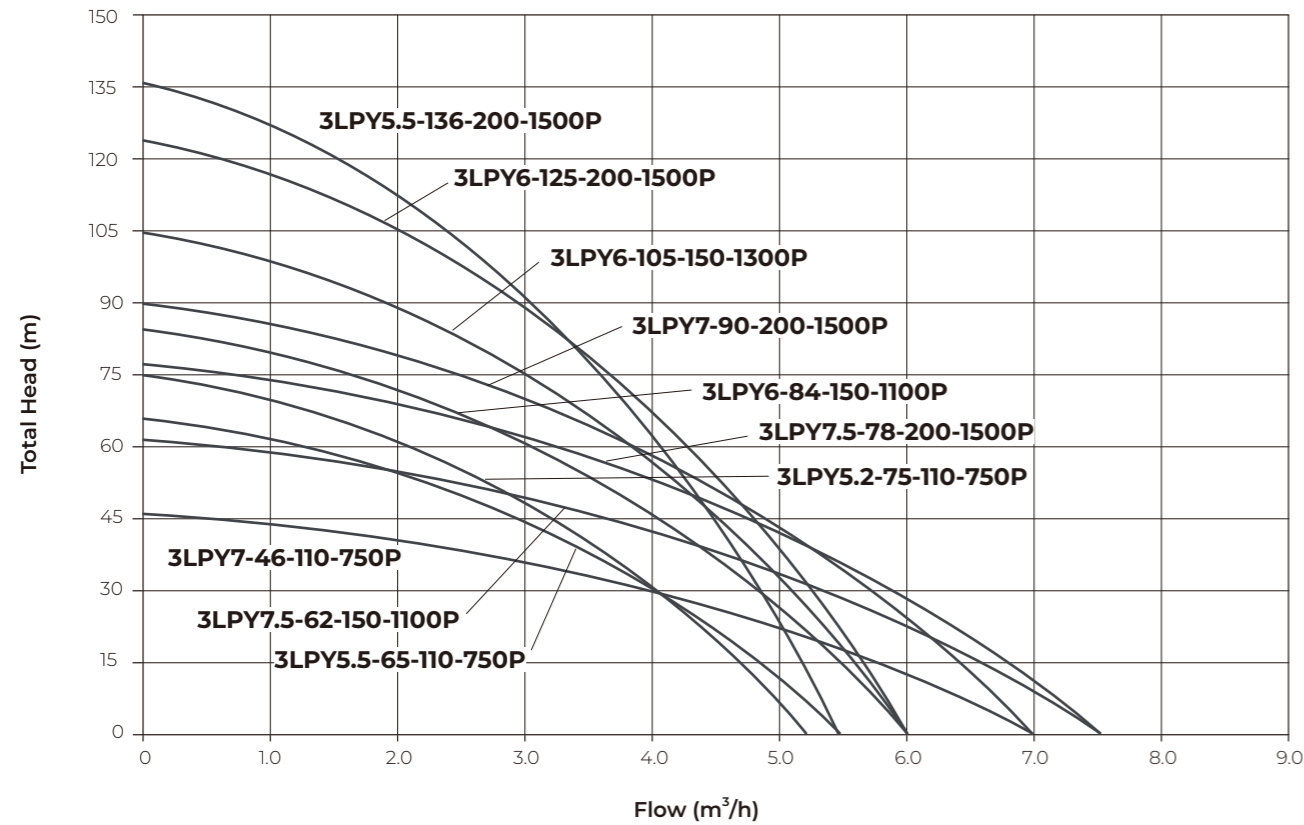
### 3"Hybrid AC/DC Solar Pump with Plastic Impeller



### Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m <sup>3</sup> /h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LPY3.5-95-110-750P	750	80-280	90-200	3.5	95	1¼"	2	<430	≥1.3*Pump Power
3LPY3.8-123-150-1100P	1100	80-280	90-300	3.8	123	1¼"	2	<430	≥1.3*Pump Power
3LPY3.8-155-150-1300P	1300	80-280	90-300	3.8	155	1¼"	2	<430	≥1.3*Pump Power
3LPY3.8-180-200-1500P	1500	80-280	150-380	3.8	180	1¼"	2	<430	≥1.3*Pump Power
3LPY3.5-195-200-1500P	1500	80-280	150-380	3.5	195	1¼"	2	<430	≥1.3*Pump Power

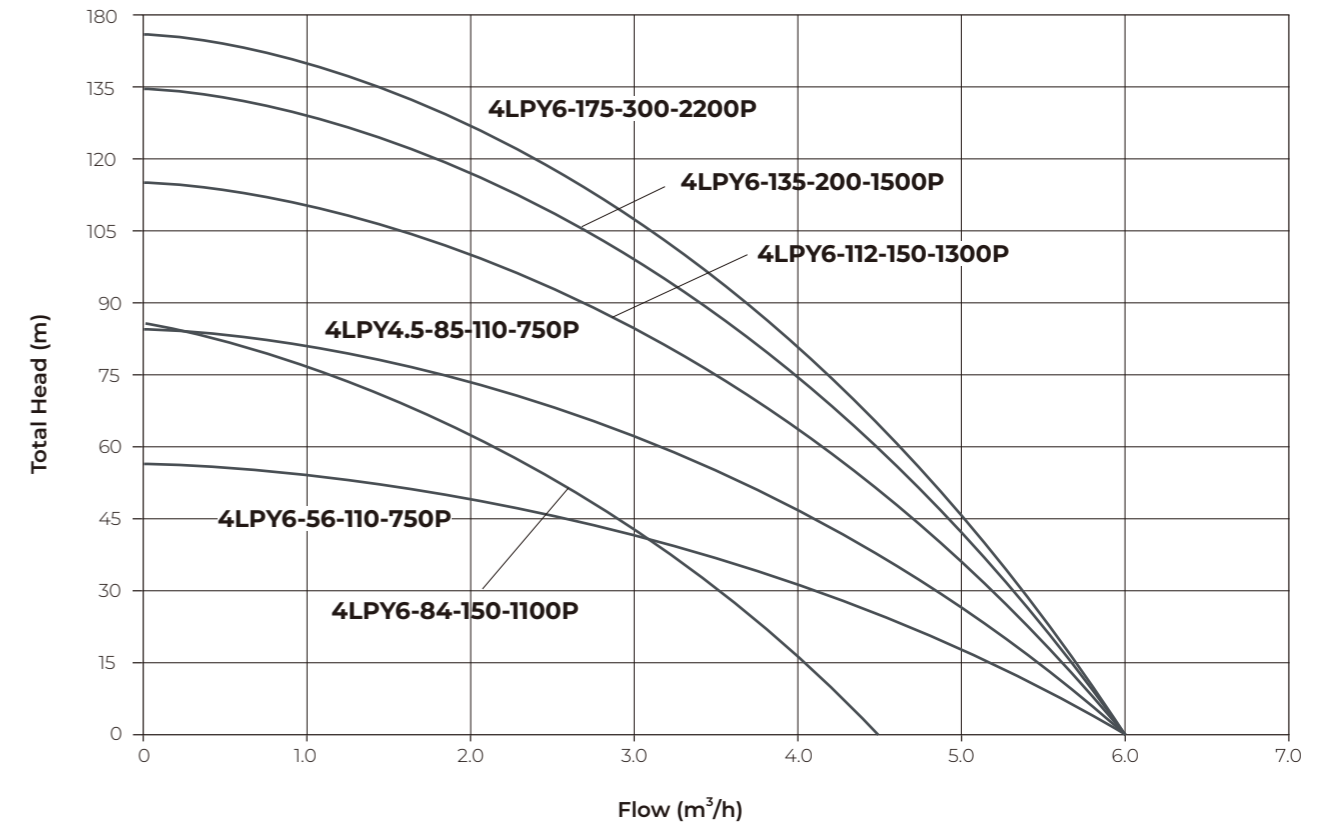
### 3"Hybrid AC/DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LPY5.2-75-110-750P	750	80-280	90-200	5.2	75	1½"	2	<430	≥1.3*Pump Power
3LPY5.5-65-110-750P	750	80-280	90-200	5.5	65	1½"	2	<430	≥1.3*Pump Power
3LPY6-84-150-1100P	1100	80-280	90-300	6	84	1½"	2	<430	≥1.3*Pump Power
3LPY6-105-150-1300P	1300	80-280	90-300	6	105	1½"	2	<430	≥1.3*Pump Power
3LPY6-125-200-1500P	1500	80-280	150-380	6	125	1½"	2	<430	≥1.3*Pump Power
3LPY5.5-136-200-1500P	1500	80-280	150-380	5.5	136	1½"	2	<430	≥1.3*Pump Power
3LPY7-46-110-750P	750	80-280	90-200	7	46	1½"	2	<430	≥1.3*Pump Power
3LPY7.5-62-150-1100P	1100	80-280	90-300	7.5	62	1½"	2	<430	≥1.3*Pump Power
3LPY7.5-78-200-1500P	1500	80-280	150-380	7.5	78	1½"	2	<430	≥1.3*Pump Power
3LPY7-90-200-1500P	1500	80-280	150-380	7	90	1½"	2	<430	≥1.3*Pump Power

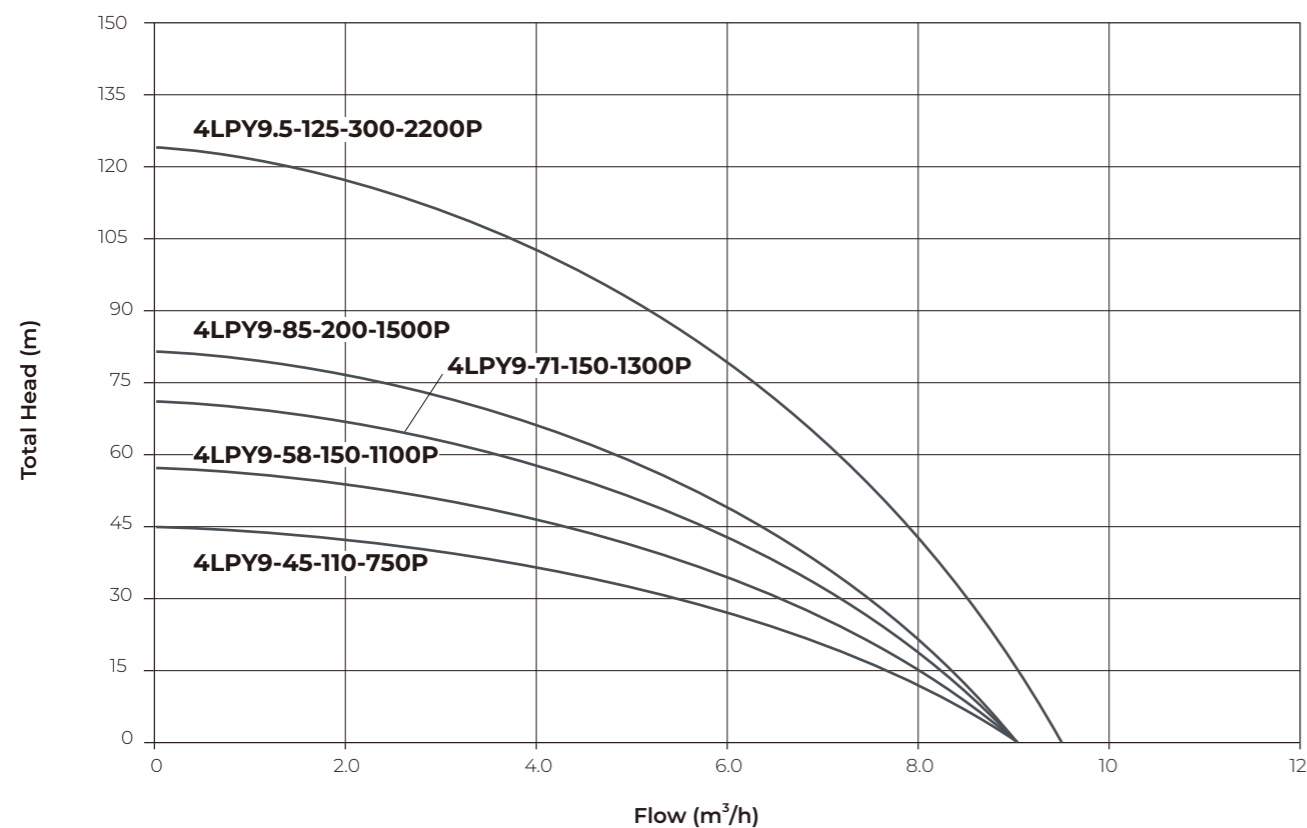
### 4"Hybrid AC/DC Solar Pump with Plastic Impeller



#### Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY4.5-85-110-750P	750	80-280	90-200	4.5	85	1¼"	2	<430	≥1.3*Pump Power
4LPY6-56-110-750P	750	80-280	90-200	6	56	1¼"	2	<430	≥1.3*Pump Power
4LPY6-84-150-1100P	1100	80-280	90-300	6	84	1¼"	2	<430	≥1.3*Pump Power
4LPY6-112-150-1300P	1300	80-280	90-300	6	112	1¼"	2	<430	≥1.3*Pump Power
4LPY6-135-200-1500P	1500	80-280	150-380	6	135	1¼"	2	<430	≥1.3*Pump Power
4LPY6-175-300-2200P	2200	80-280	200-430	6	175	1¼"	2	<430	≥1.3*Pump Power

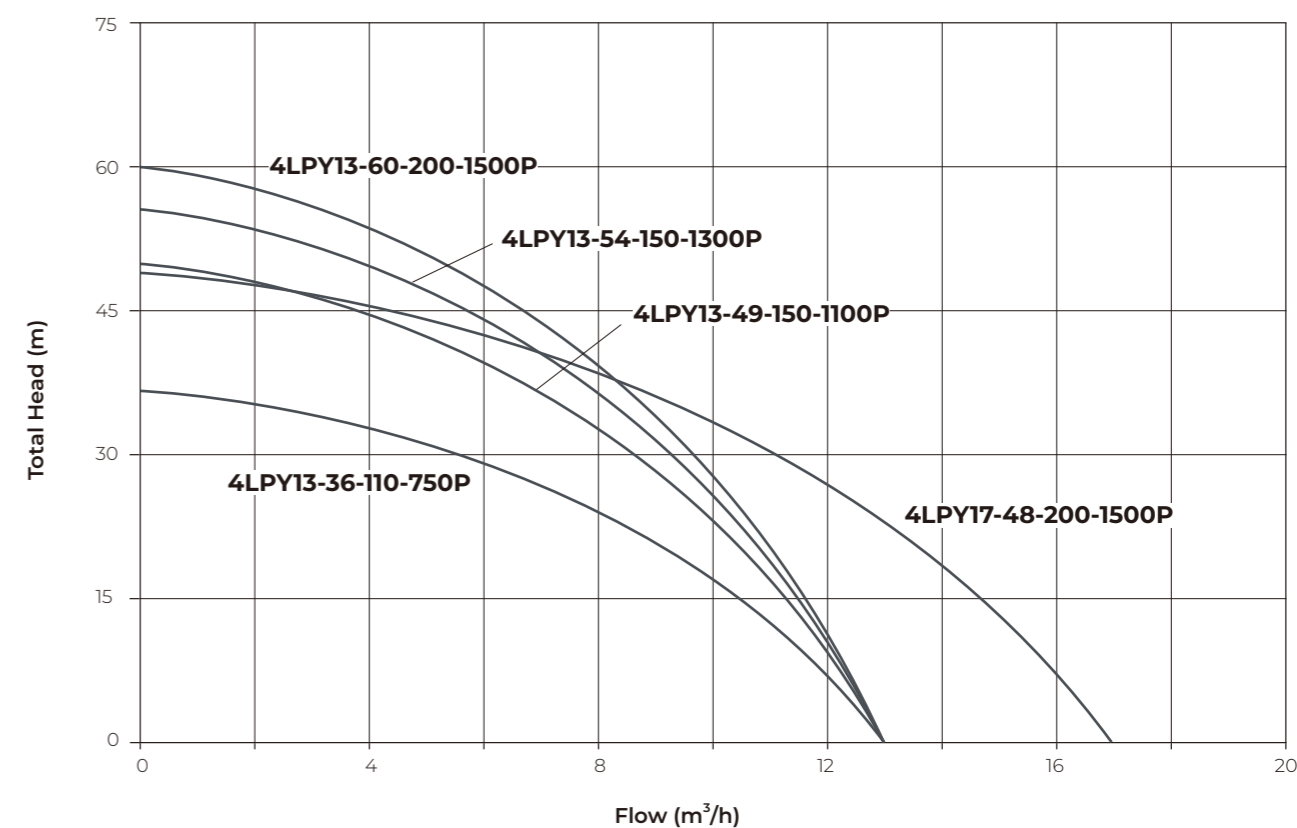
4"Hybrid AC/DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY9-45-110-750P	750	80-280	90-200	9	45	2"	2	<430	≥1.3*Pump Power
4LPY9-58-150-1100P	1100	80-280	90-300	9	58	2"	2	<430	≥1.3*Pump Power
4LPY9-71-150-1300P	1300	80-280	90-300	9	71	2"	2	<430	≥1.3*Pump Power
4LPY9-85-200-1500P	1500	80-280	150-380	9	85	2"	2	<430	≥1.3*Pump Power
4LPY9.5-125-300-2200P	2200	80-280	200-430	9.5	125	2"	2	<430	≥1.3*Pump Power

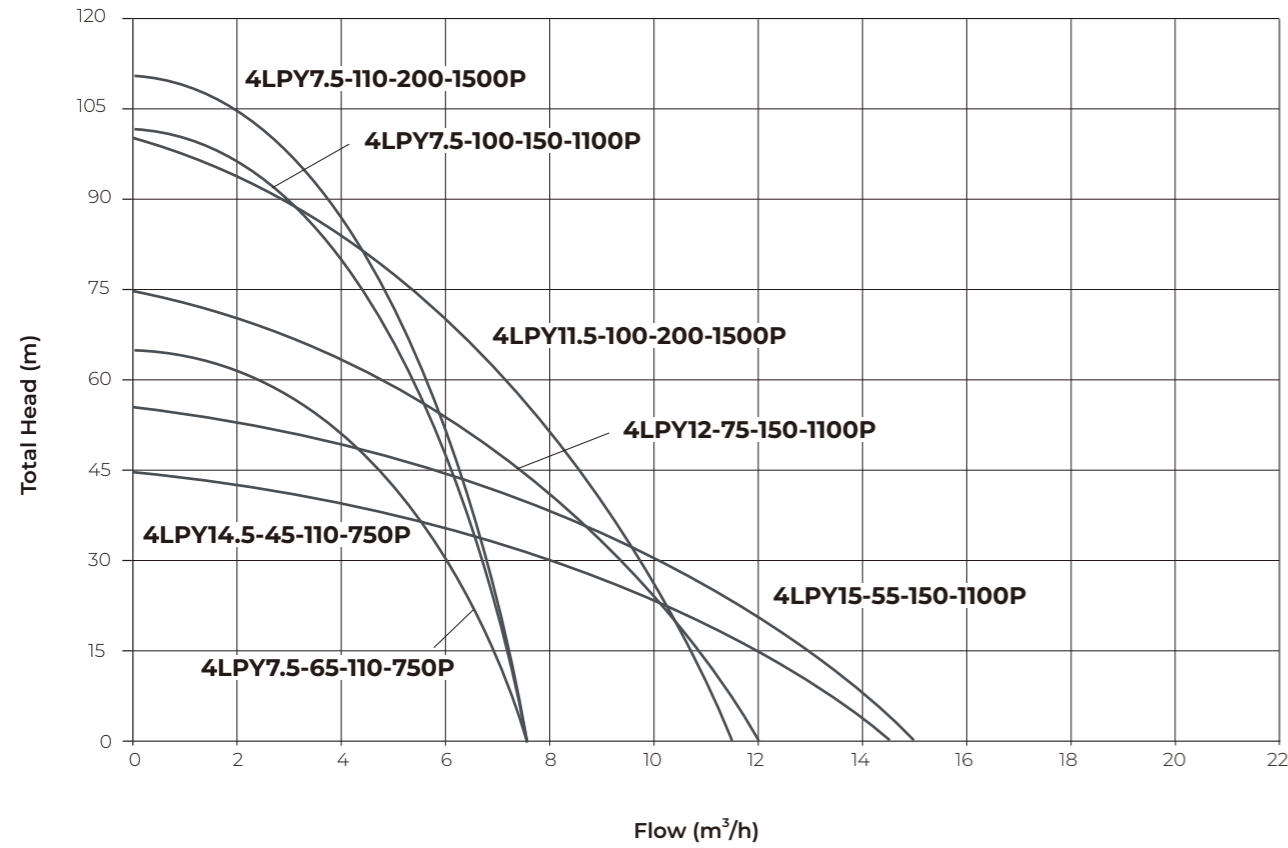
4"Hybrid AC/DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY13-36-110-750P	750	80-280	90-200	13	36	2"	2	<430	≥1.3*Pump Power
4LPY13-49-150-1100P	1100	80-280	90-300	13	49	2"	2	<430	≥1.3*Pump Power
4LPY13-54-150-1300P	1300	80-280	90-300	13	54	2"	2	<430	≥1.3*Pump Power
4LPY13-60-200-1500P	1500	80-280	150-380	13	60	2"	2	<430	≥1.3*Pump Power
4LPY17-48-200-1500P	1500	80-280	150-380	17	48	2"	2	<430	≥1.3*Pump Power

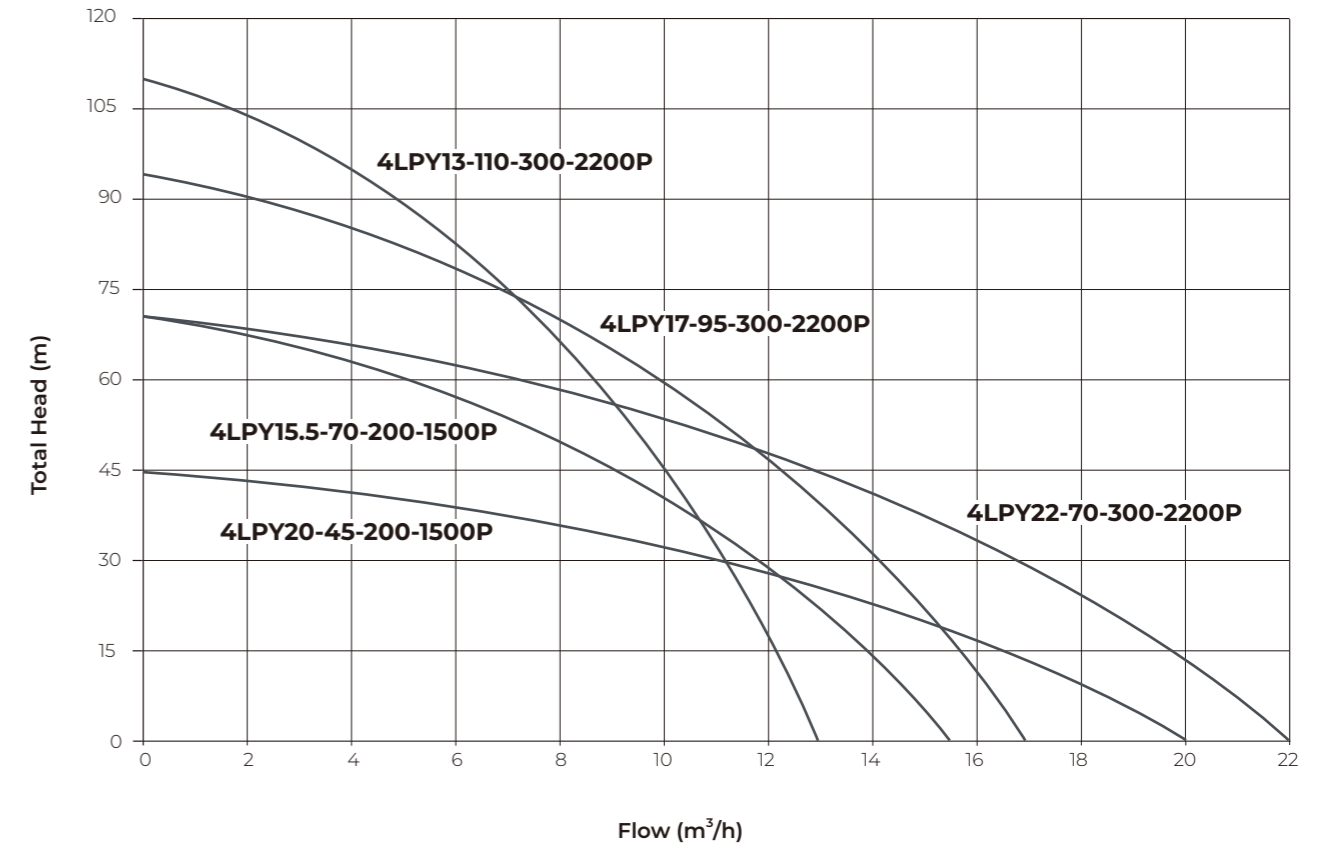
4"Hybrid AC/DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY7.5-65-110-750P	750	80-280	90-200	7.5	65	2"	2	<430	≥1.3*Pump Power
4LPY7.5-100-150-1100P	1100	80-280	90-300	7.5	100	2"	2	<430	≥1.3*Pump Power
4LPY7.5-110-200-1500P	1500	80-280	150-380	7.5	110	2"	2	<430	≥1.3*Pump Power
4LPY12-75-150-1100P	1100	80-280	90-300	12	75	2"	2	<430	≥1.3*Pump Power
4LPY11.5-100-200-1500P	1500	80-280	150-380	11.5	100	2"	2	<430	≥1.3*Pump Power
4LPY14.5-45-110-750P	750	80-280	90-200	14.5	45	2"	2	<430	≥1.3*Pump Power
4LPY15-55-150-1100P	1100	80-280	90-300	15	55	2"	2	<430	≥1.3*Pump Power

4"Hybrid AC/DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY13-110-300-2200P	2200	80-280	200-430	13	110	2"	2	<430	≥1.3*Pump Power
4LPY15.5-70-200-1500P	1500	80-280	150-380	15.5	70	2"	2	<430	≥1.3*Pump Power
4LPY17-95-300-2200P	2200	80-280	200-430	17	95	2"	2	<430	≥1.3*Pump Power
4LPY20-45-200-1500P	1500	80-280	150-380	20	45	2"	2	<430	≥1.3*Pump Power
4LPY22-70-300-2200P	2200	80-280	200-430	22	70	2"	2	<430	≥1.3*Pump Power

### Applications

- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system

### Pump Features

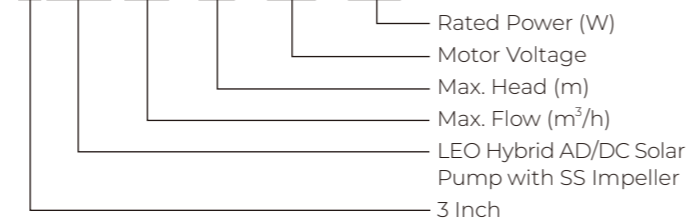
- With MPPT AC/DC Controller
- AISI304 impeller and diffuser
- AISI304 oil chamber
- NSK Bearing
- High efficiency PMSM brushless motor  
(PMSM: Permanent Magnet Synchronous Motor)

### MPPT AC/DC Controller

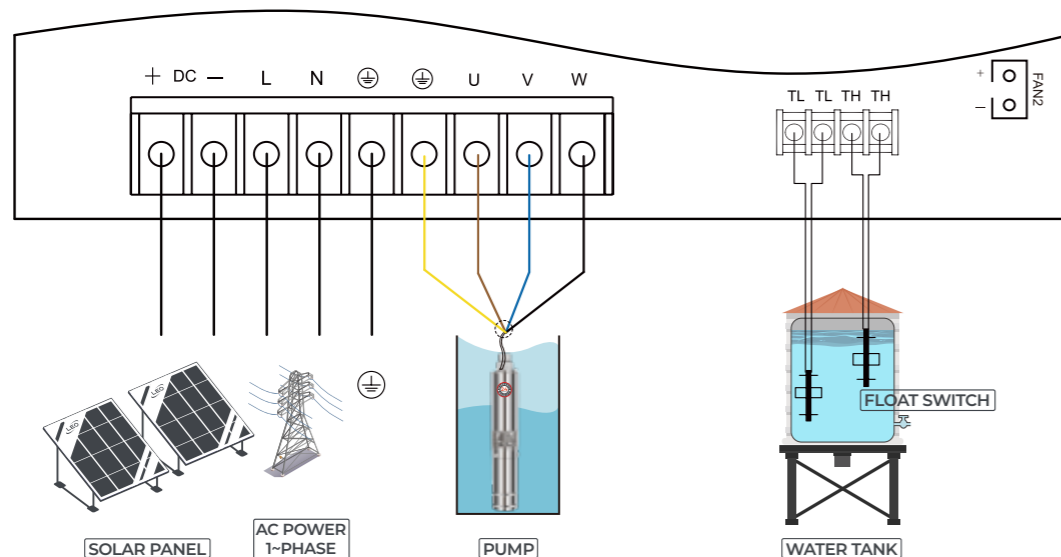
- Can be used for both AC and DC power supply
- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

### Identification Codes

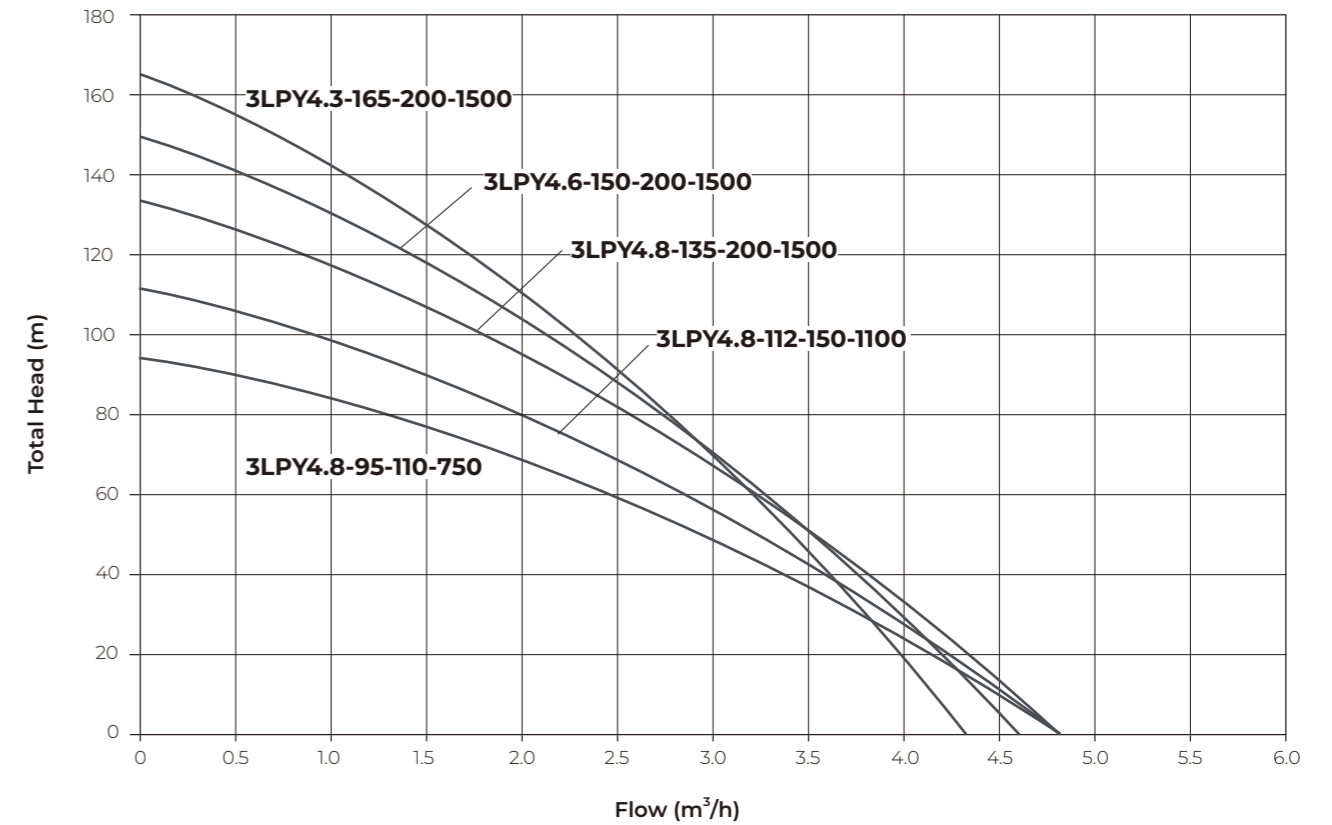
**3 LPY 4.8 - 95 - 110 - 750**



### Wiring Diagram



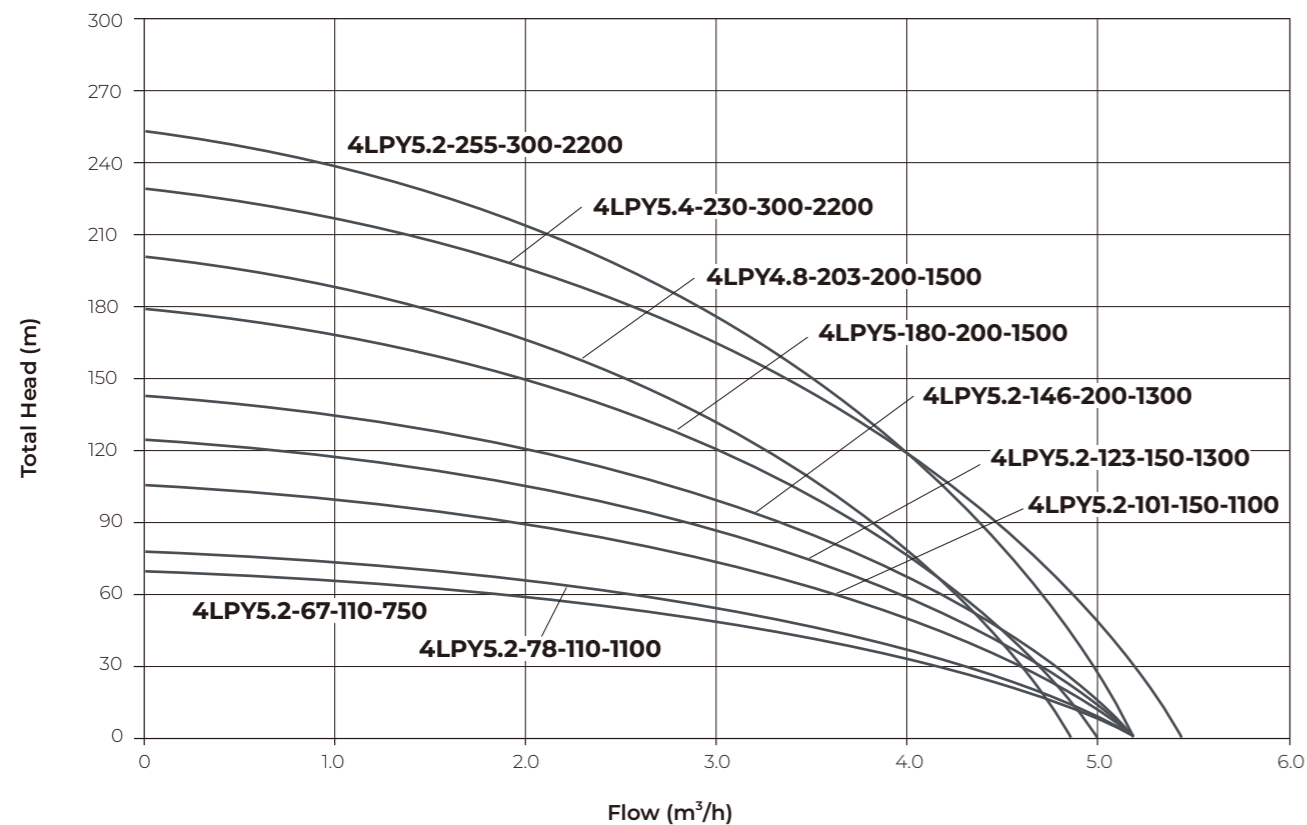
### 3"Hybrid AC/DC Solar Pump with SS Impeller



### Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
3LPY4.8-95-110-750	750	80-280	90-200	4.8	95	1¼"	2	<430	≥1.3*Pump Power
3LPY4.8-112-150-1100	1100	80-280	90-300	4.8	112	1¼"	2	<430	≥1.3*Pump Power
3LPY4.8-135-200-1500	1500	80-280	150-380	4.8	135	1¼"	2	<430	≥1.3*Pump Power
3LPY4.6-150-200-1500	1500	80-280	150-380	4.6	150	1¼"	2	<430	≥1.3*Pump Power
3LPY4.3-165-200-1500	1500	80-280	150-380	4.3	165	1¼"	2	<430	≥1.3*Pump Power

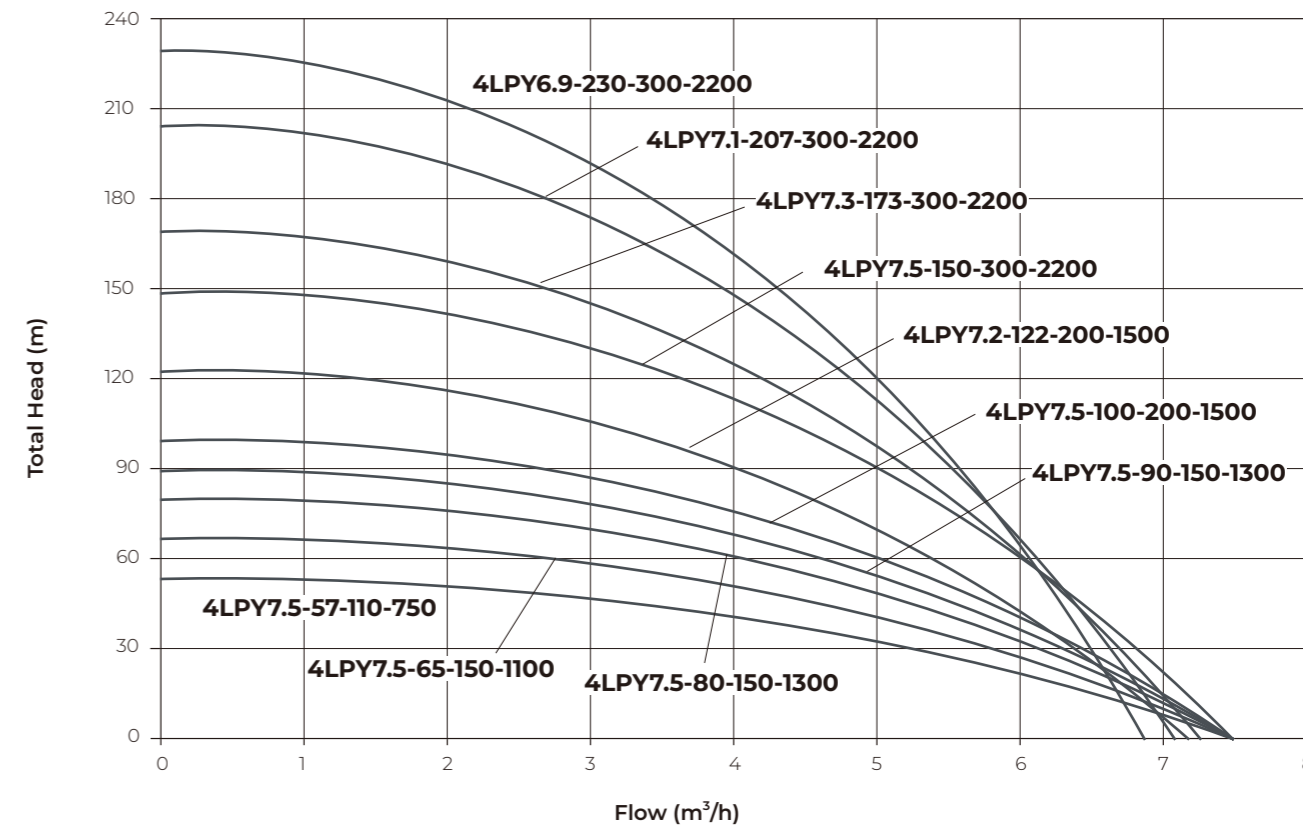
4"Hybrid AC/DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY5.2-67-110-750	750	80-280	90-200	5.2	67	1¼"	2	<430	≥1.3*Pump Power
4LPY5.2-78-110-1100	1100	80-280	90-200	5.2	78	1¼"	2	<430	≥1.3*Pump Power
4LPY5.2-101-150-1100	1100	80-280	90-300	5.2	101	1¼"	2	<430	≥1.3*Pump Power
4LPY5.2-123-150-1300	1300	80-280	90-300	5.2	123	1¼"	2	<430	≥1.3*Pump Power
4LPY5.2-146-200-1300	1300	80-280	150-380	5.2	146	1¼"	2	<430	≥1.3*Pump Power
4LPY5-180-200-1500	1500	80-280	150-380	5	180	1¼"	2	<430	≥1.3*Pump Power
4LPY4.8-203-200-1500	1500	80-280	150-380	4.8	203	1¼"	2	<430	≥1.3*Pump Power
4LPY5.4-230-300-2200	2200	80-280	200-430	5.4	230	1¼"	2	<430	≥1.3*Pump Power
4LPY5.2-255-300-2200	2200	80-280	200-430	5.2	255	1¼"	2	<430	≥1.3*Pump Power

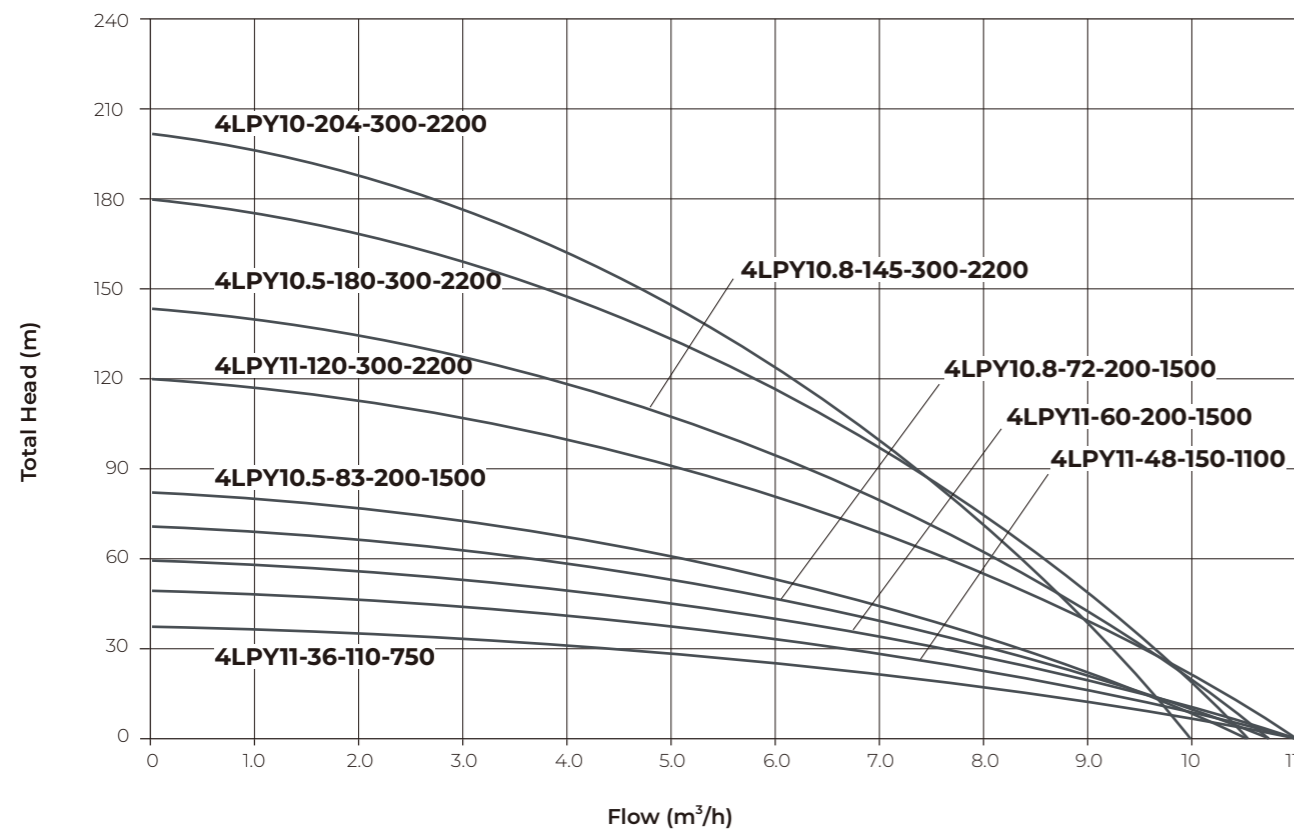
4"Hybrid AC/DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY7.5-57-110-750	750	80-280	90-200	7.5	57	1¼"	2	<430	≥1.3*Pump Power
4LPY7.5-65-150-1100	1100	80-280	90-300	7.5	65	1¼"	2	<430	≥1.3*Pump Power
4LPY7.5-80-150-1300	1300	80-280	90-300	7.5	80	1¼"	2	<430	≥1.3*Pump Power
4LPY7.5-90-150-1300	1300	80-280	90-300	7.5	90	1¼"	2	<430	≥1.3*Pump Power
4LPY7.5-100-200-1500	1500	80-280	150-380	7.5	100	1¼"	2	<430	≥1.3*Pump Power
4LPY7.2-122-200-1500	1500	80-280	150-380	7.2	122	1¼"	2	<430	≥1.3*Pump Power
4LPY7.5-150-300-2200	2200	80-280	200-430	7.5	150	1¼"	2	<430	≥1.3*Pump Power
4LPY7.3-173-300-2200	2200	80-280	200-430	7.3	173	1¼"	2	<430	≥1.3*Pump Power
4LPY7.1-207-300-2200	2200	80-280	200-430	7.1	207	1¼"	2	<430	≥1.3*Pump Power
4LPY6.9-230-300-2200	2200	80-280	200-430	6.9	230	1¼"	2	<430	≥1.3*Pump Power

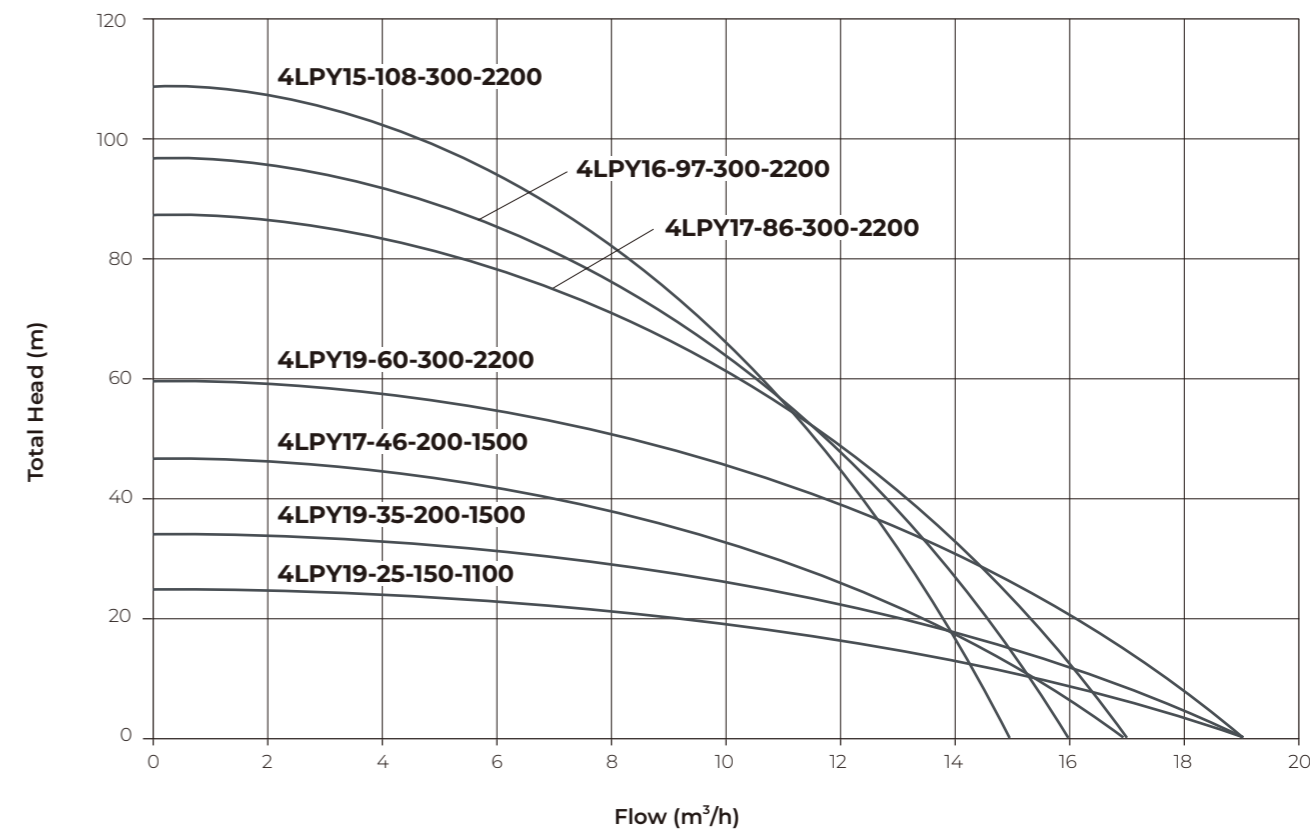
4"Hybrid AC/DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY11-36-110-750	750	80-280	90-200	11	36	2"	2	<430	≥1.3*Pump Power
4LPY11-48-150-1100	1100	80-280	90-300	11	48	2"	2	<430	≥1.3*Pump Power
4LPY11-60-200-1500	1500	80-280	150-380	11	60	2"	2	<430	≥1.3*Pump Power
4LPY10.8-72-200-1500	1500	80-280	150-380	10.8	72	2"	2	<430	≥1.3*Pump Power
4LPY10.5-83-200-1500	1500	80-280	150-380	10.5	83	2"	2	<430	≥1.3*Pump Power
4LPY11-120-300-2200	2200	80-280	200-430	11	120	2"	2	<430	≥1.3*Pump Power
4LPY10.8-145-300-2200	2200	80-280	200-430	10.8	145	2"	2	<430	≥1.3*Pump Power
4LPY10.5-180-300-2200	2200	80-280	200-430	10.5	180	2"	2	<430	≥1.3*Pump Power
4LPY10-204-300-2200	2200	80-280	200-430	10	204	2"	2	<430	≥1.3*Pump Power

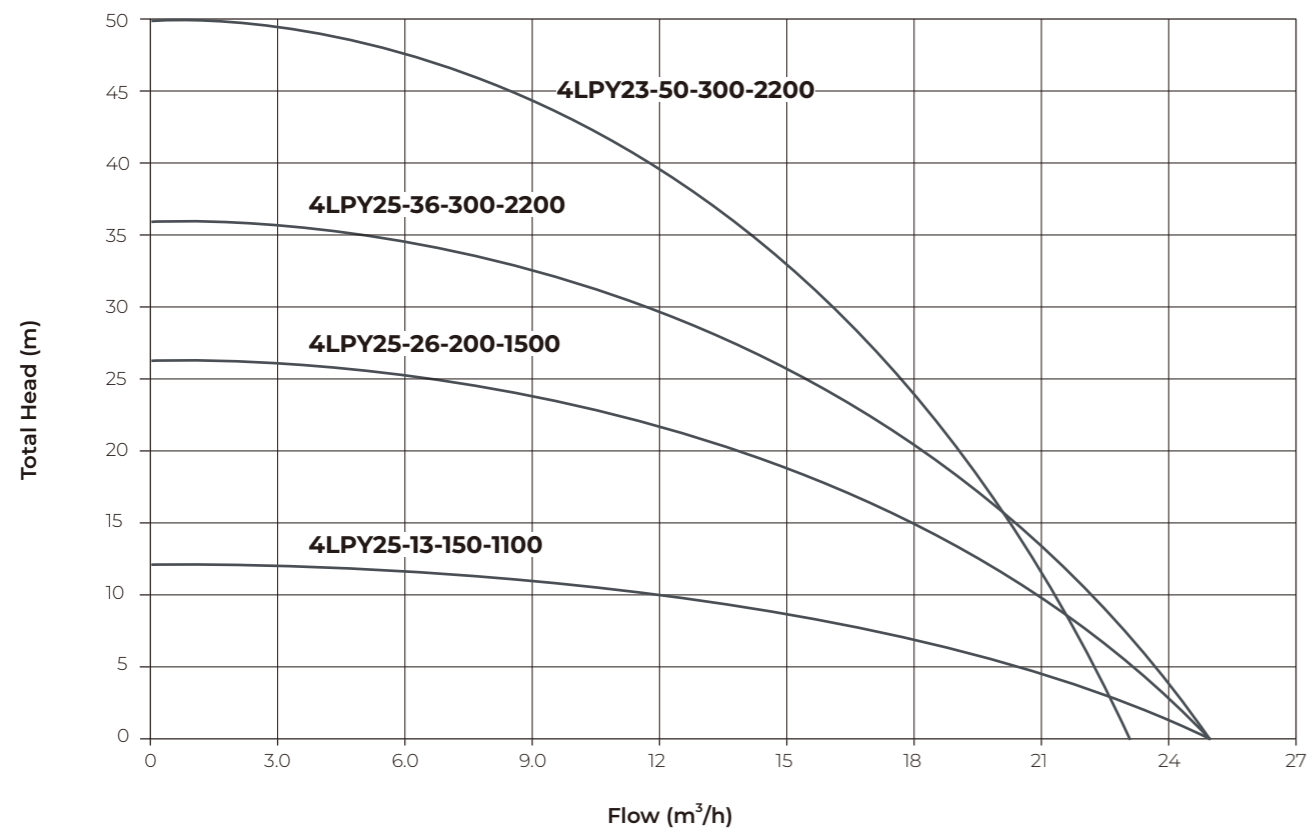
4"Hybrid AC/DC Solar Pump with SS Impeller



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY19-25-150-1100	1100	80-280	90-300	19	25	2"	2	<430	≥1.3*Pump Power
4LPY19-35-200-1500	1500	80-280	150-380	19	35	2"	2	<430	≥1.3*Pump Power
4LPY17-46-200-1500	1500	80-280	150-380	17	46	2"	2	<430	≥1.3*Pump Power
4LPY19-60-300-2200	2200	80-280	200-430	19	60	2"	2	<430	≥1.3*Pump Power
4LPY17-86-300-2200	2200	80-280	200-430	17	86	2"	2	<430	≥1.3*Pump Power
4LPY16-97-300-2200	2200	80-280	200-430	16	97	2"	2	<430	≥1.3*Pump Power
4LPY15-108-300-2200	2200	80-280	200-430	15	108	2"	2	<430	≥1.3*Pump Power

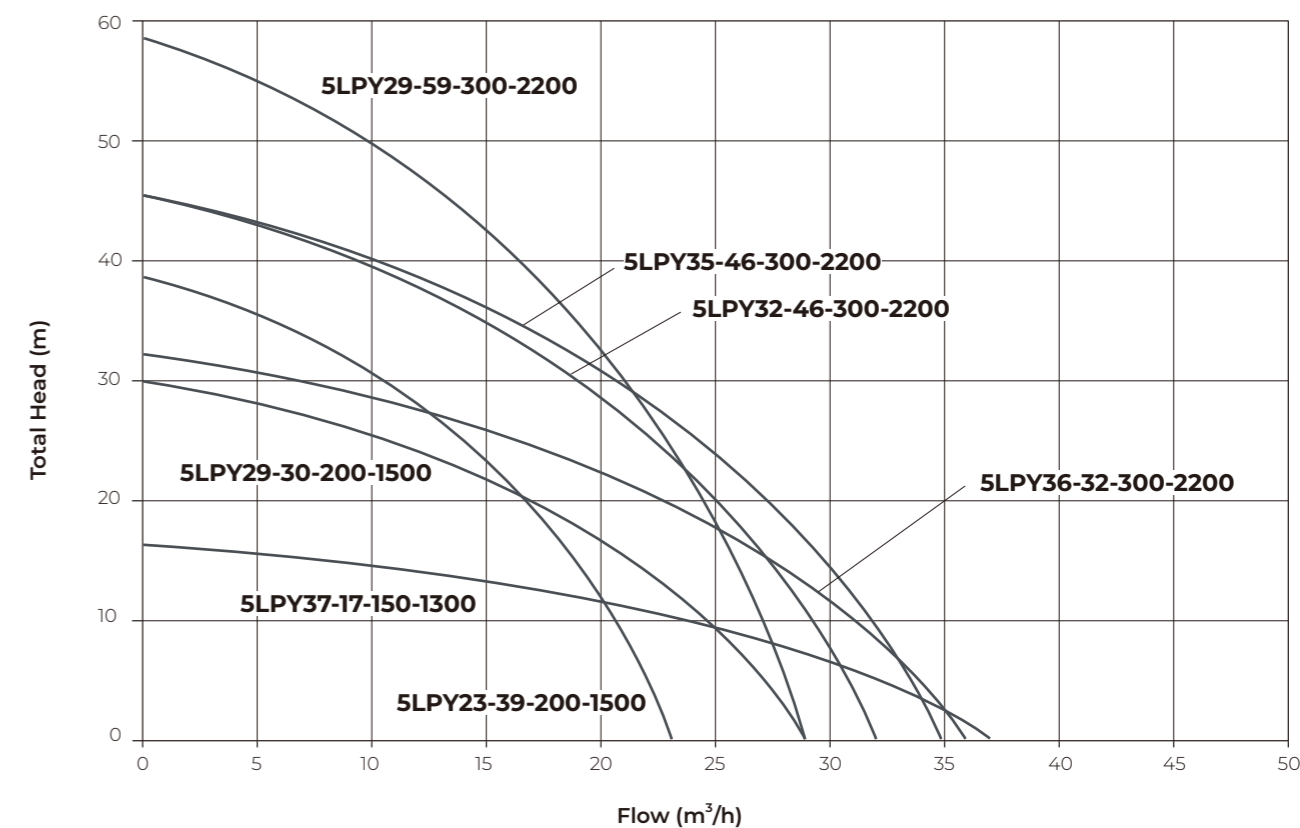
### 4"Hybrid AC/DC Solar Pump with SS Impeller



### Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
4LPY25-13-150-1100	1100	80-280	90-300	25	13	2"	2	<430	≥1.3*Pump Power
4LPY25-26-200-1500	1500	80-280	150-380	25	26	2"	2	<430	≥1.3*Pump Power
4LPY25-36-300-2200	2200	80-280	200-430	25	36	2"	2	<430	≥1.3*Pump Power
4LPY23-50-300-2200	2200	80-280	200-430	23	50	2"	2	<430	≥1.3*Pump Power

### 5"Hybrid AC/DC Solar Pump with SS Impeller

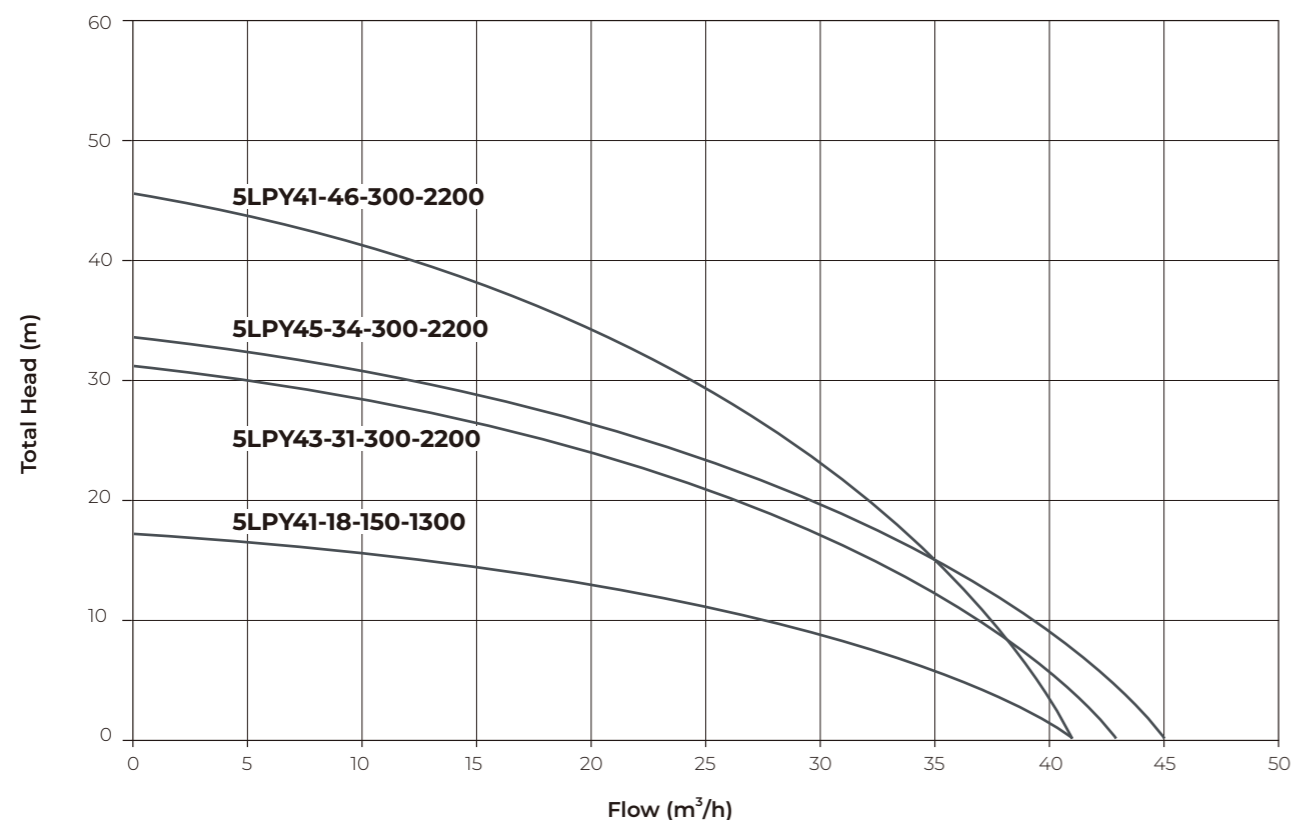


### Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
5LPY23-39-200-1500	1500	80-280	150-380	23	39	2½"	2	<430	≥1.3*Pump Power
5LPY29-59-300-2200	2200	80-280	200-430	29	59	2½"	2	<430	≥1.3*Pump Power
5LPY29-30-200-1500	1500	80-280	150-380	29	30	2½"	2	<430	≥1.3*Pump Power
5LPY32-46-300-2200	2200	80-280	200-430	32	46	2½"	2	<430	≥1.3*Pump Power
5LPY37-17-150-1300	1300	80-280	90-300	37	17	2½"	2	<430	≥1.3*Pump Power
5LPY36-32-300-2200	2200	80-280	200-430	36	32	2½"	2	<430	≥1.3*Pump Power
5LPY35-46-300-2200	2200	80-280	200-430	35	46	2½"	2	<430	≥1.3*Pump Power



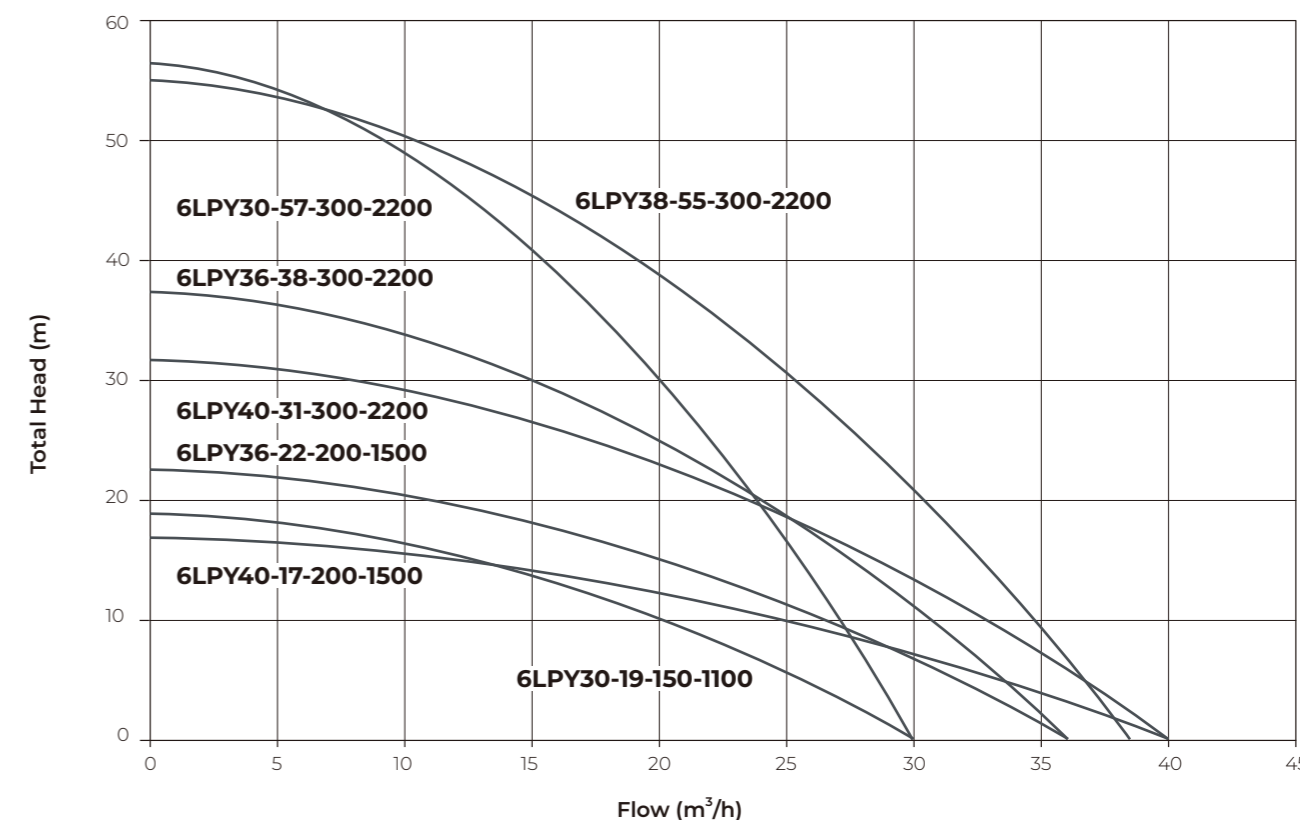
**5"Hybrid AC/DC Solar Pump with SS Impeller**



**Technical Data**

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
5LPY41-18-150-1300	1300	80-280	90-300	41	18	2½"	2	<430	≥1.3*Pump Power
5LPY43-31-300-2200	2200	80-280	200-430	43	31	2½"	2	<430	≥1.3*Pump Power
5LPY41-46-300-2200	2200	80-280	200-430	41	46	2½"	2	<430	≥1.3*Pump Power
5LPY45-34-300-2200	2200	80-280	200-430	45	34	2½"	2	<430	≥1.3*Pump Power

**6"Hybrid AC/DC Solar Pump with SS Impeller**



**Technical Data**

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
6LPY30-19-150-1100	1100	80-280	90-300	30	19	3"	2	<430	≥1.3*Pump Power
6LPY36-22-200-1500	1500	80-280	150-380	36	22	3"	2	<430	≥1.3*Pump Power
6LPY36-38-300-2200	2200	80-280	200-430	36	38	3"	2	<430	≥1.3*Pump Power
6LPY30-57-300-2200	2200	80-280	200-430	30	57	3"	2	<430	≥1.3*Pump Power
6LPY40-17-200-1500	2200	80-280	150-380	40	17	3"	2	<430	≥1.3*Pump Power
6LPY40-31-300-2200	2200	80-280	200-430	40	31	3"	2	<430	≥1.3*Pump Power
6LPY38-55-300-2200	2200	80-280	200-430	38	55	3"	2	<430	≥1.3*Pump Power

### Applications

- Transfer clean water or other liquids similar to water in physical and chemical properties
- Farm irrigation & Domestic water lifting in no electricity area
- Off grid solar irrigation system

### Pump Features

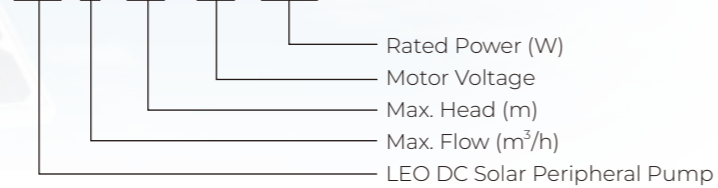
- 100% Copper winding
- High efficiency PMSM brushless motor (PMSM: Permanent Magnet Synchronous Motor)
- High efficiency synchronous motor
- Cast iron pump body with e-coating treatment
- Brass impeller

### MPPT DC Controller

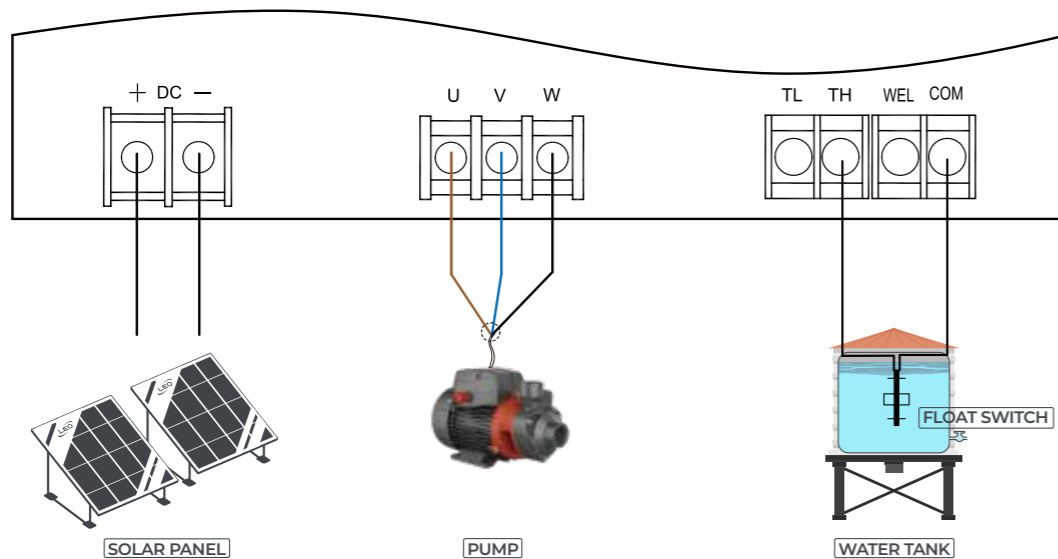
- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working parameter & Fault code
- Auto Start & Stop (with float switch)
- Soft start & Auto frequency conversion function

### Identification Codes

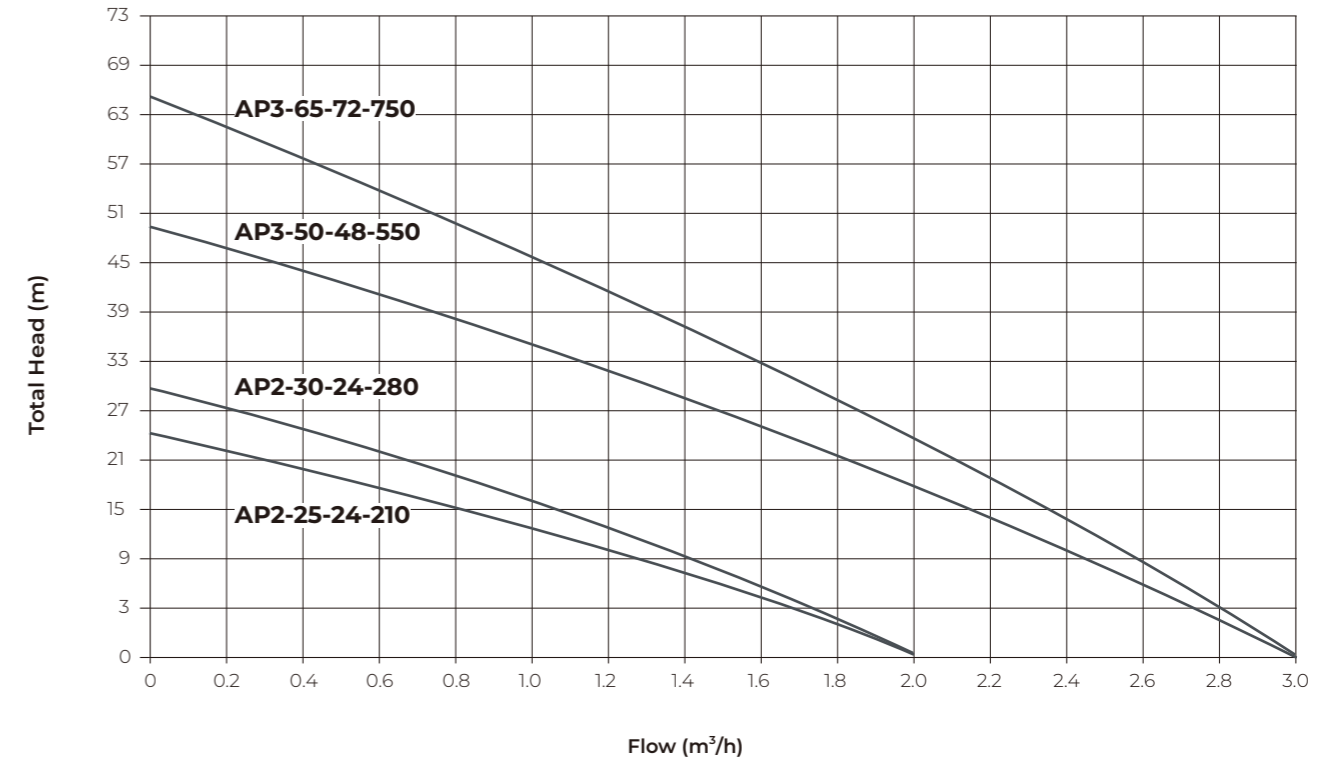
**AP 2 - 25 - 24 - 210**



### Wiring Diagram



### AP DC Solar Peripheral Pump



### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Inlet/Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
AP2-25-24-210	210	24	30-48	2	25	1"x1"	2	< 50	≥1.3*Pump Power
AP2-30-24-280	280	24	30-48	2	30	1"x1"	2	< 50	≥1.3*Pump Power
AP3-50-48-550	550	48	60-90	3	50	1"x1"	2	< 100	≥1.3*Pump Power
AP3-65-72-750	750	72	90-120	3	65	1"x1"	2	< 150	≥1.3*Pump Power

### Applications

- Transfer clean water or other liquids similar to water in physical and chemical properties
- Farm irrigation & Domestic water lifting in no electricity area
- Off grid solar irrigation system

### Pump Features

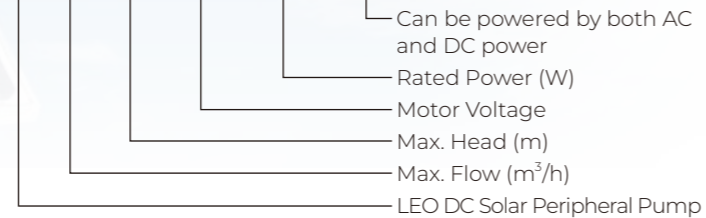
- 100% Copper winding
- High efficiency PMSM brushless motor (PMSM: Permanent Magnet Synchronous Motor)
- High efficiency synchronous motor
- Cast iron pump body with e-coating treatment
- Brass impeller

### MPPT AC/DC Controller

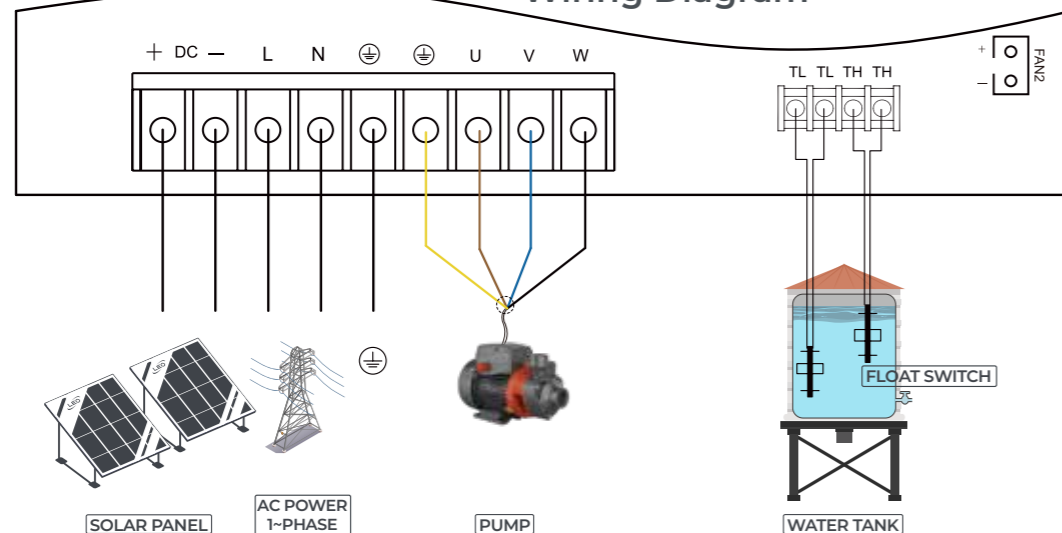
- Can be used for both AC and DC power supply
- Ambient temperature: -15 ~ 60 °C
- LED Displays working parameter & Fault code
- Soft start & Auto frequency conversion function
- Protection class: IP55

### Identification Codes

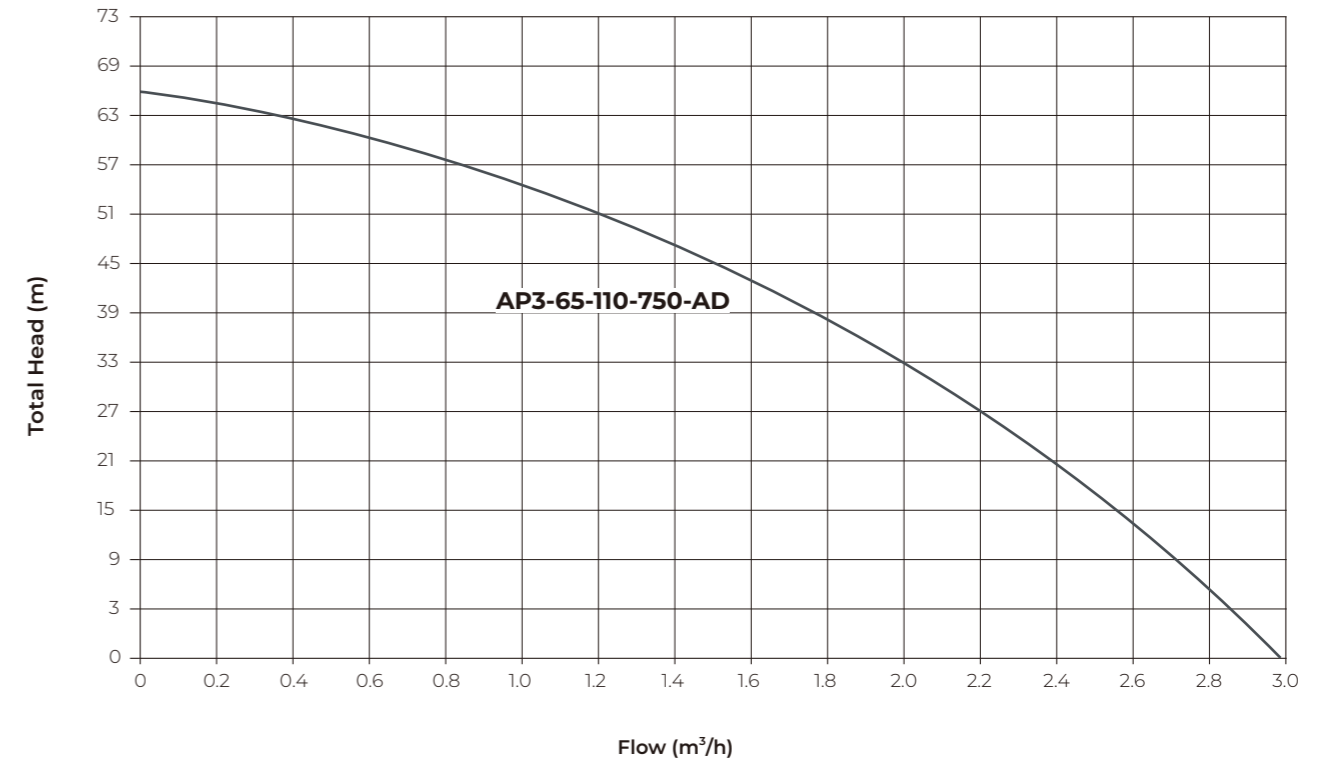
**AP 3 - 65 - 110 - 750 - AD**



### Wiring Diagram



### AP Hybrid AC/DC Solar Peripheral Pump



### Technical Data

Model	Power (W)	(AC) Voltage (V)	(DC) Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Inlet/Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
AP3-65-110-750-AD	750	80-280	90-200	3	65	1"x1"	2	< 430	≥1.3*Pump Power



### Applications

- Transfer clean water or other liquids similar to water in physical and chemical properties
- Farm irrigation & Domestic water lifting in no electricity area
- Off grid solar irrigation system

### Pump Features

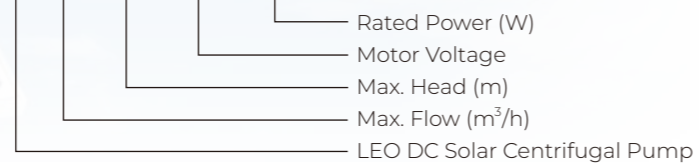
- 100% Copper winding
- High efficiency PMSM brushless motor (PMSM: Permanent Magnet Synchronous Motor)
- High efficiency synchronous motor
- Cast iron pump body with e-coating treatment
- Brass impeller

### MPPT DC Controller

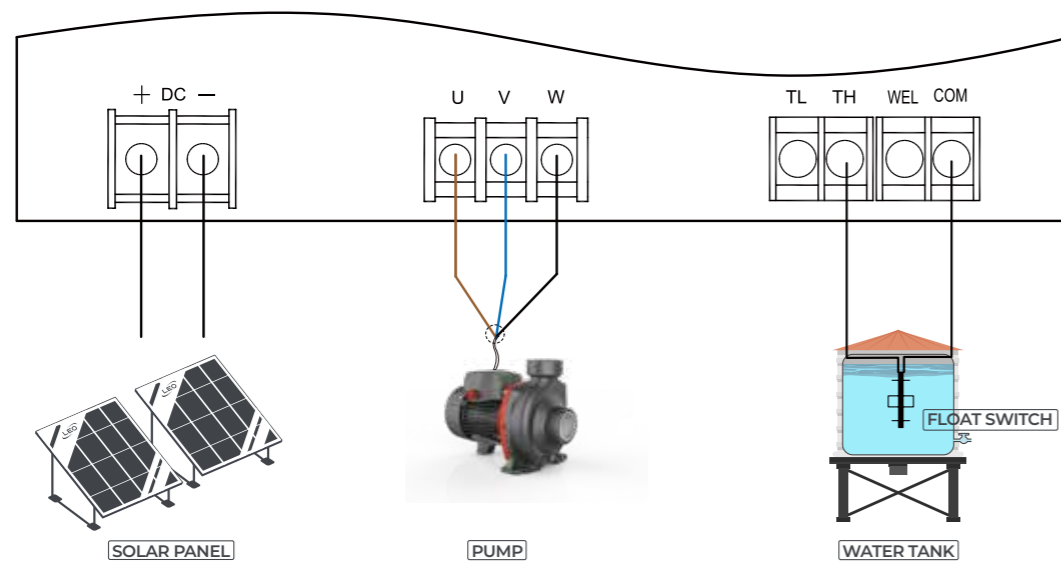
- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working conditions & Fault code
- Auto Start & Stop (with float switch)
- Soft start & VFD function

### Identification Codes

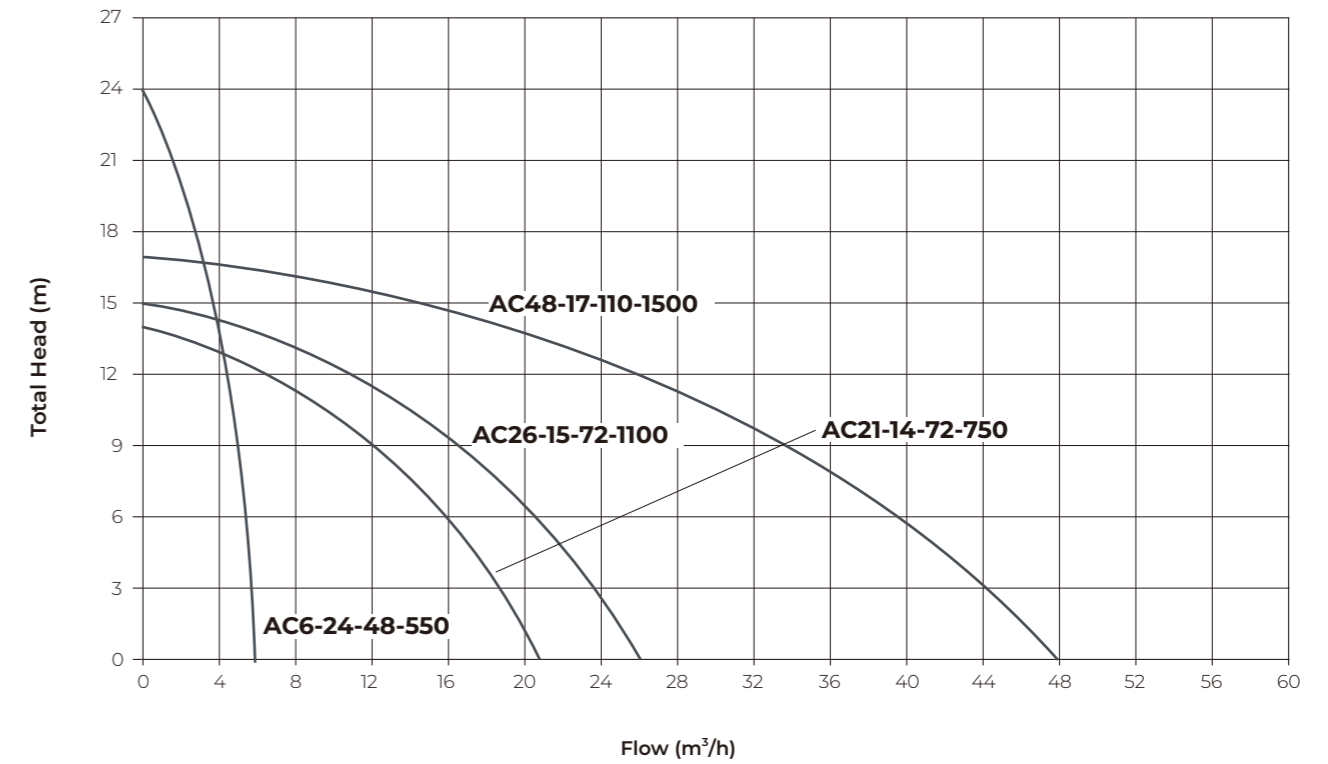
**AC 6 - 24 - 48 - 550**



### Wiring Diagram



### AC DC Solar Centrifugal Pump



### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Inlet/Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
AC6-24-48-550	550	48	60-90	6	24	1"x1"	2	< 100	≥1.3*Pump Power
AC21-14-72-750	750	72	90-120	21	14	2"x2"	2	< 150	≥1.3*Pump Power
AC26-15-72-1100	1100	72	90-120	26	15	2"x2"	2	< 150	≥1.3*Pump Power
AC48-17-110-1500	1500	110	110-150	45	17	3"x3"	2	< 200	≥1.3*Pump Power



## Applications

- Transfer clean water or other liquids similar to water in physical and chemical properties
- Farm irrigation & Domestic water lifting in no electricity area
- Off grid solar irrigation system

## Pump Features

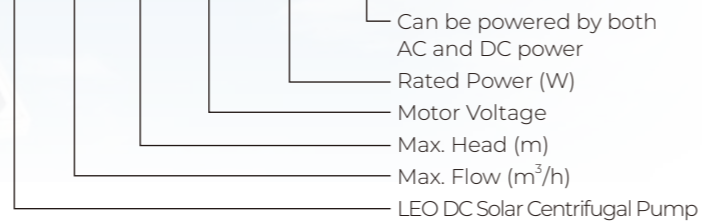
- 100% Copper winding
- High efficiency PMSM brushless motor (PMSM: Permanent Magnet Synchronous Motor)
- High efficiency synchronous motor
- Cast iron pump body with e-coating treatment
- Brass impeller

## MPPT AC/DC Controller

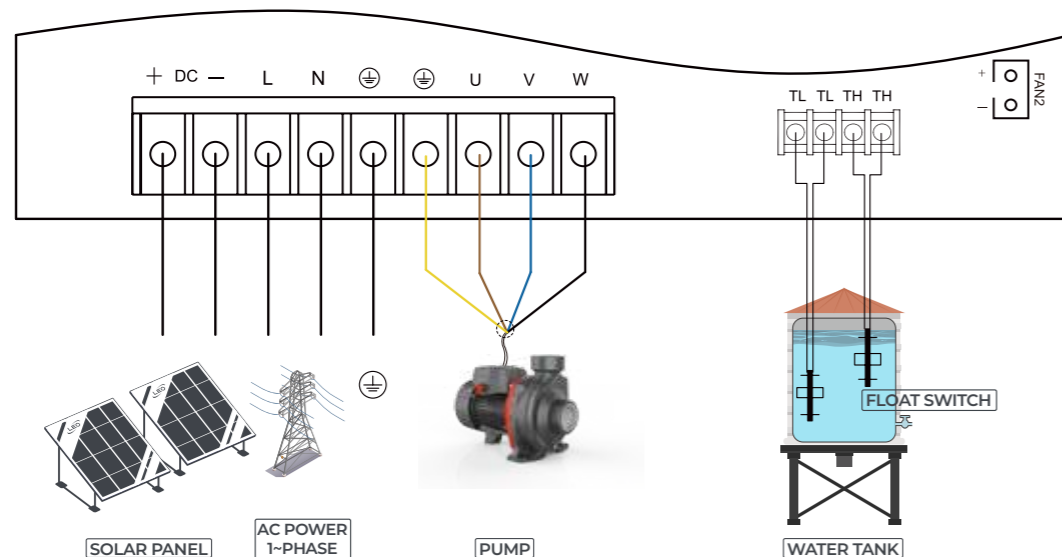
- Can be used for both AC and DC power supply
- Ambient temperature: -15 ~ 60 °C
- LED Displays working parameter & Fault code
- Soft start & Auto frequency conversion function
- Protection class: IP55

## Identification Codes

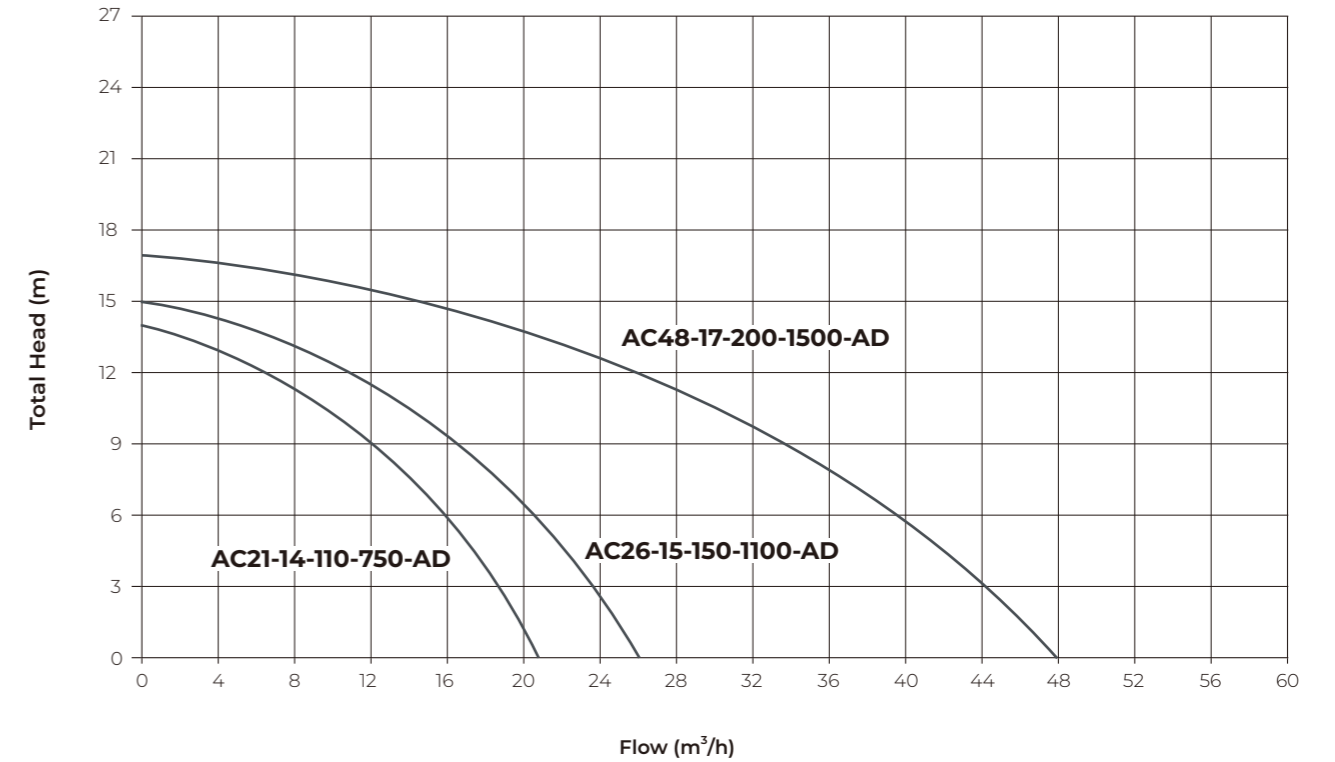
**AC 21 - 14 - 110 - 750 - AD**



## Wiring Diagram



## AC Hybrid AC/DC Solar Centrifugal Pump



## Technical Data

Model	Power (W)	(AC) Voltage (V)	(DC) Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Inlet/Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
AC21-14-110-750-AD	750	80-280	90-200	21	14	2"x2"	2	< 430	≥1.3*Pump Power
AC26-15-150-1100-AD	1100	80-280	90-300	26	15	2"x2"	2	< 430	≥1.3*Pump Power
AC48-17-200-1500-AD	1500	80-280	150-380	45	17	3"x3"	2	< 430	≥1.3*Pump Power

### Applications

- Designed for use in residential and commercial swimming pools and spas.
- In most pool applications all of the filtration needs can be met directly from solar panels.

### Pump Features

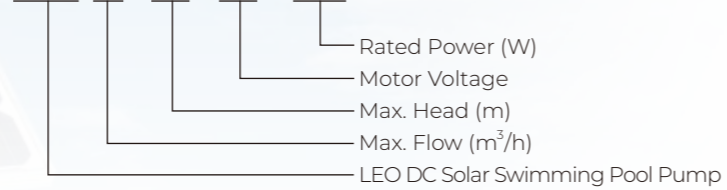
- 100% Copper winding
- High efficiency PMSM brushless motor (PMSM: Permanent Magnet Synchronous Motor)
- High efficiency Synchronous Motor

### MPPT DC Controller

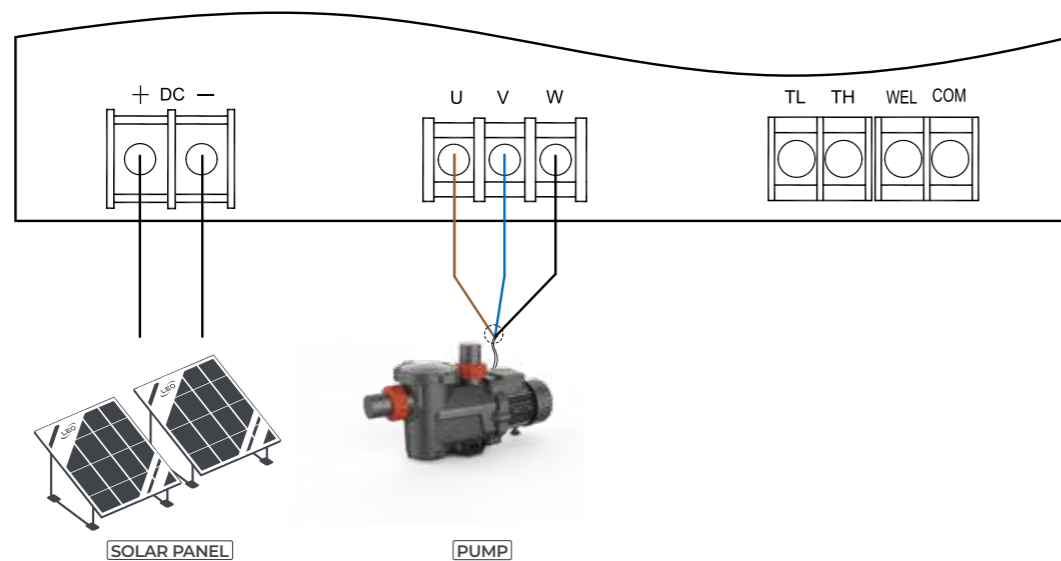
- Protection class: IP55
- Ambient temperature: -15 ~ 60 °C
- LED Displays working parameter & Fault code
- Soft start & Auto frequency conversion function
- Protection class: IP55

### Identification Codes

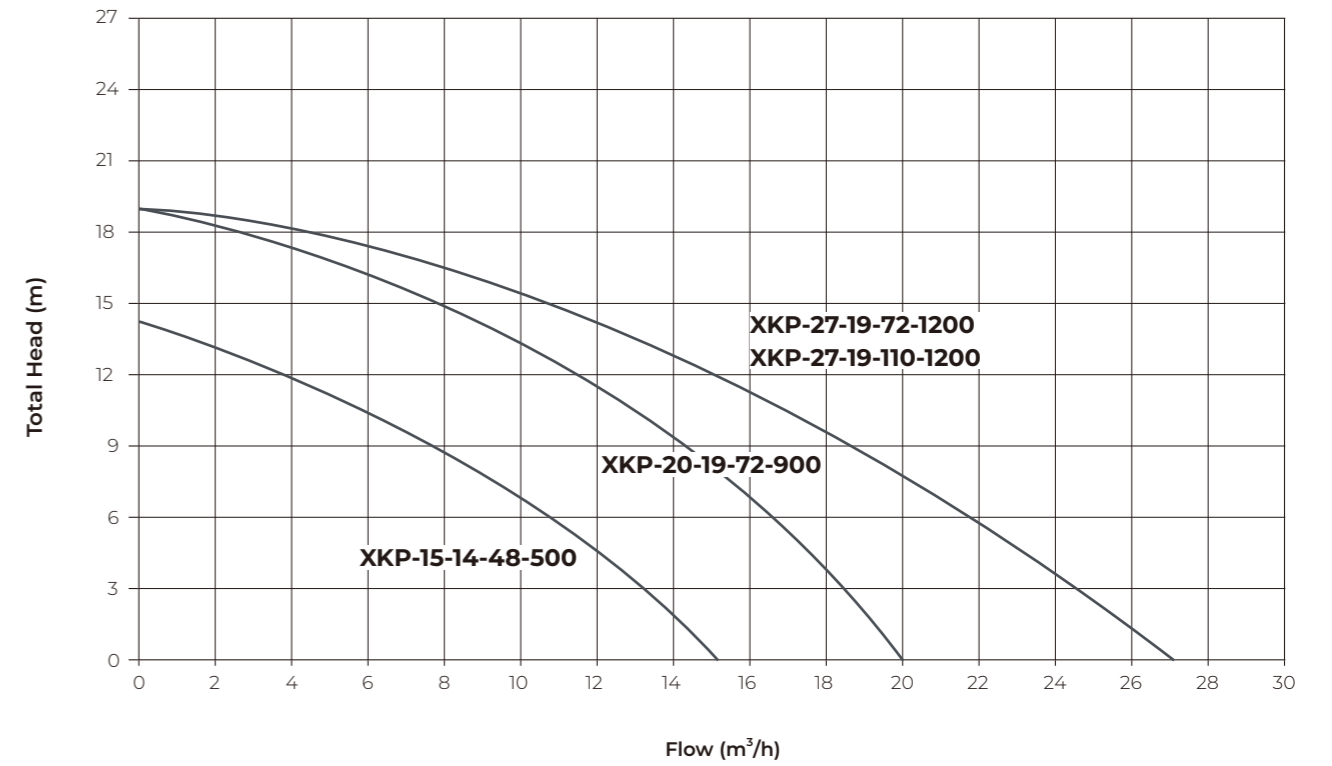
**XKP 15 - 14 - 48 - 500**



### Wiring Diagram



### XKP DC Solar Swimming Pool Pump



### Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m³/h)	Max. Head (m)	Inlet/Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
XKP15-14-48-500	500	48	60-90	15	14	2"x2"	2	< 100	≥1.3*Pump Power
XKP20-19-72-900	900	72	90-120	20	19	2"x2"	2	< 150	≥1.3*Pump Power
XKP27-19-72-1200	1200	72	90-120	27	19	2"x2"	2	< 150	≥1.3*Pump Power
XKP27-19-110-1200	1200	110	110-150	27	19	2"x2"	2	< 200	≥1.3*Pump Power

### Applications

- Designed for use in residential and commercial swimming pools and spas.
- In most pool applications all of the filtration needs can be met directly from solar panels.

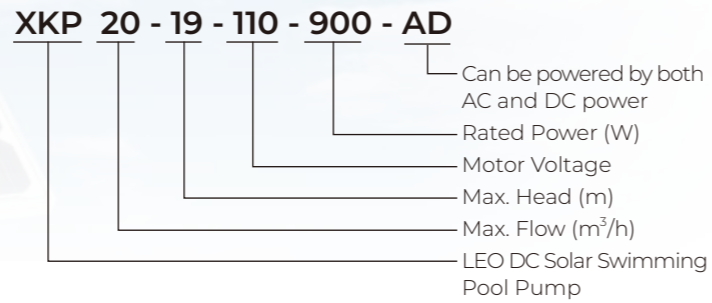
### Pump Features

- 100% Copper winding
- High efficiency PMSM brushless motor (PMSM: Permanent Magnet Synchronous Motor)
- High efficiency Synchronous Motor

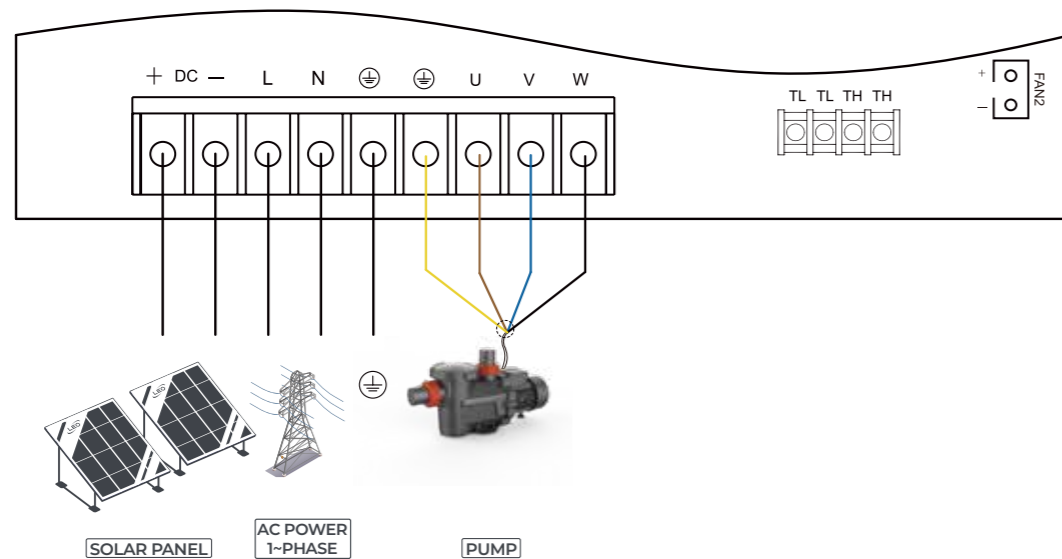
### MPPT AC/DC Controller

- Can be used for both AC and DC power supply
- Ambient temperature: -15 ~ 60 °C
- LED Displays working parameter & Fault code
- Soft start & Auto frequency conversion function
- Protection class: IP55

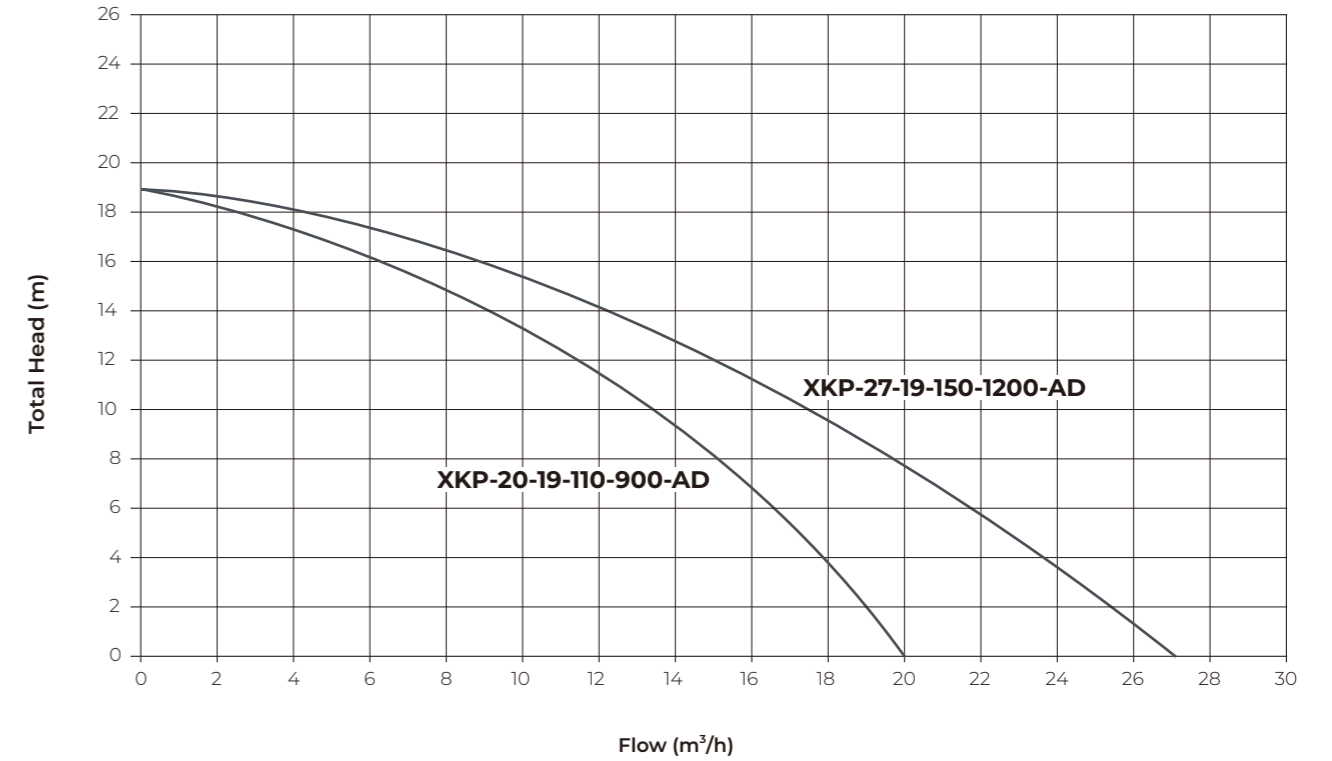
### Identification Codes



### Wiring Diagram



### XKP Hybrid AC/DC Solar Swimming Pool Pump



### Technical Data

Model	Power (W)	(AC) Voltage (V)	(DC) Voltage (V)	Max. Flow (m <sup>3</sup> /h)	Max. Head (m)	Inlet/Outlet (inch)	Cable (m)	Recommended Solar Panel	
								Open Circuit Voltage(VOC)	Power
XKP20-19-110-900-AD	900	80-280	90-200	20	19	2"x2"	2	< 430	≥1.3*Pump Power
XKP27-19-150-1200-AD	1200	80-280	90-300	27	19	2"x2"	2	< 430	≥1.3*Pump Power

# PUMP RANGE

## Peripheral Pump



## Self-Priming Peripheral Pump



## Jet Pump



## Jet Pump for Deep Wells



## Centrifugal Pump



## Multistage Centrifugal Pump



## Self-Priming Centrifugal Pump



## Stainless Steel Multistage Centrifugal Pump



## Stainless Steel Centrifugal Pump



## Submersible Pump



## Domestic Lifting Station



## Pool Pump



## Fountain Pump



## Garden Submersible Pump



## Garden Jet Pump



## Garden Pressure System



## Petrol Lawnmowers



## Booster Pump/Circulation Pump



## Wall-Mounted Gas Boiler Pump



## Stainless Steel Horizontal Multistage Pump



## Stainless Steel Horizontal Multistage Pump



## Semi-open Impeller Stainless Steel Centrifugal Pump



## Intelligent Pressure Booster System



## Permanent Magnet Intelligent Booster



## Standard Centrifugal Pump



## Stainless Steel Standard Centrifugal Pump



## Submersible Sewage Pump



## Submersible Sewatering Pump



## Submersible Slurry Pump



## Vertical In-line Pump



# PUMP RANGE

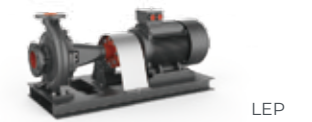
## Stainless Steel Vertical Multistage Pump



## Pressure Booster System



## End Suction Centrifugal Pump



## Gasoline/Diesel Water Pump



## Generators



## Submersible Borehole Pump



## Solar Pumping System

