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)

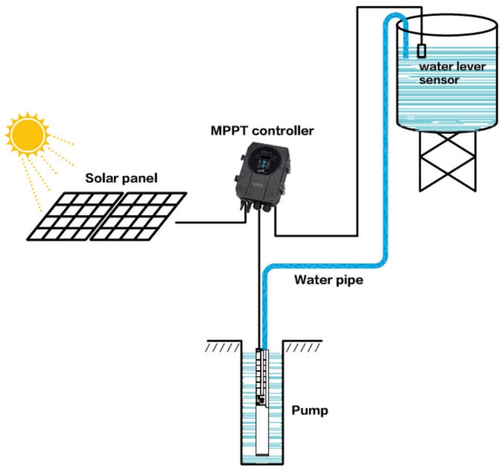
MPPT DC Controller

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

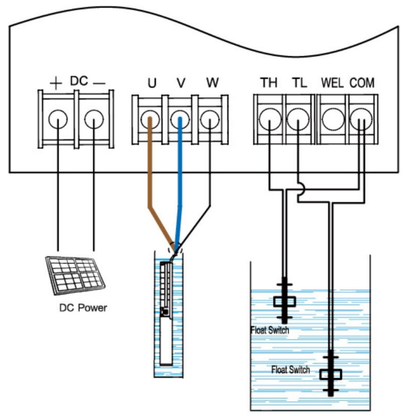
Identification Codes

3 LDP 5 - 45 - 48 - 500

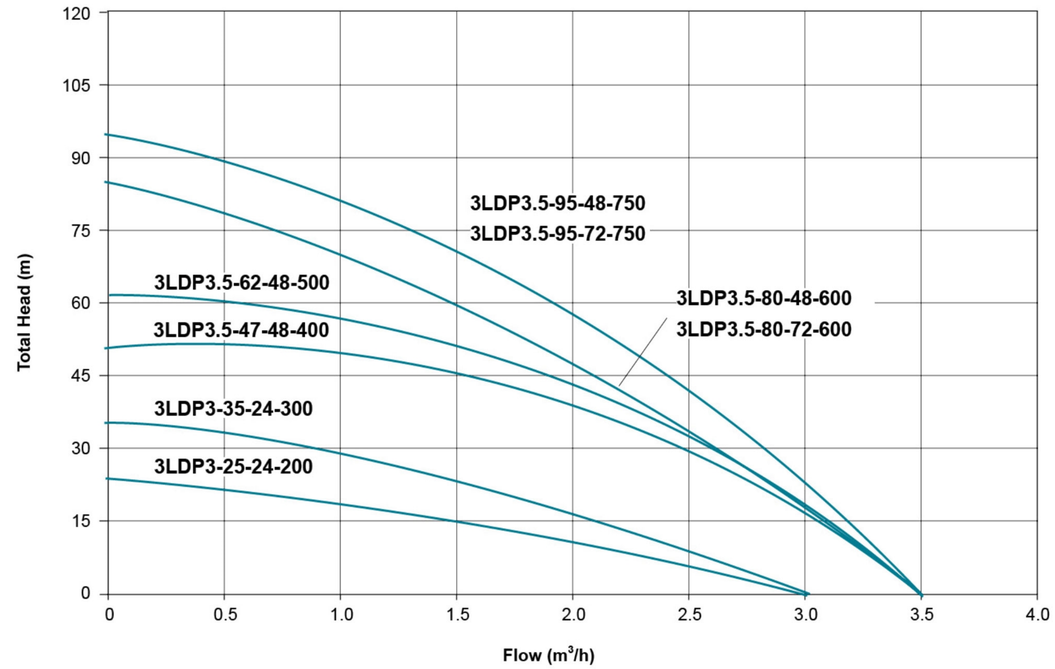
- 500 — Rated Power (W)
- 48 — Motor Voltage
- 45 — Max. Head (m)
- 5 — Max. Flow (m^3/h)
- LDP — LEO DC Plastic Impeller Borehole Pump
- 3 — 3 Inch



Wiring Diagram



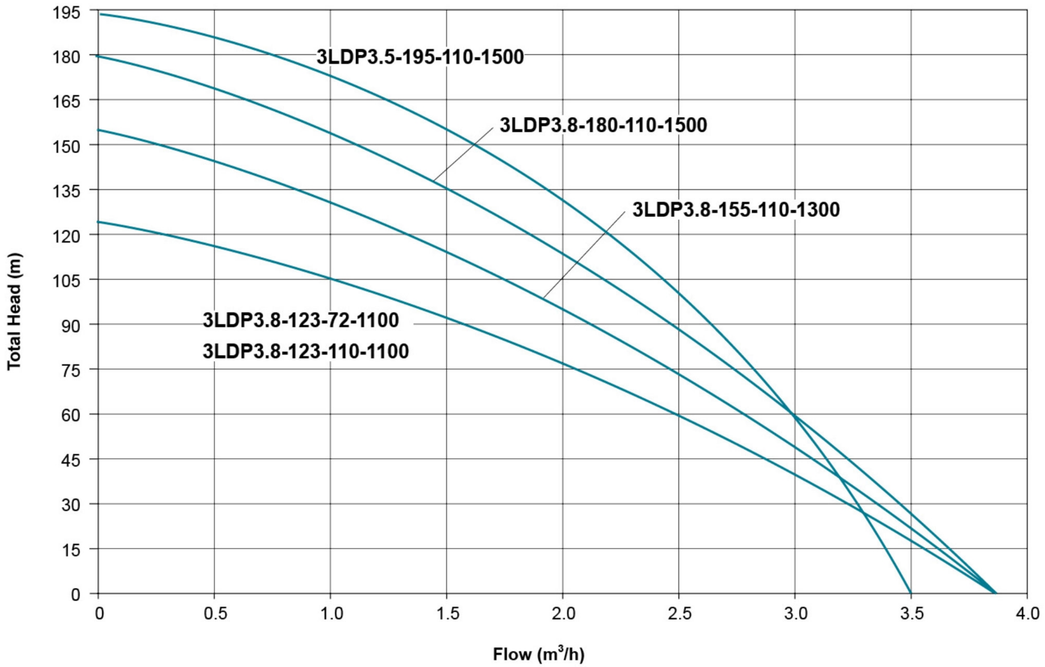
3" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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

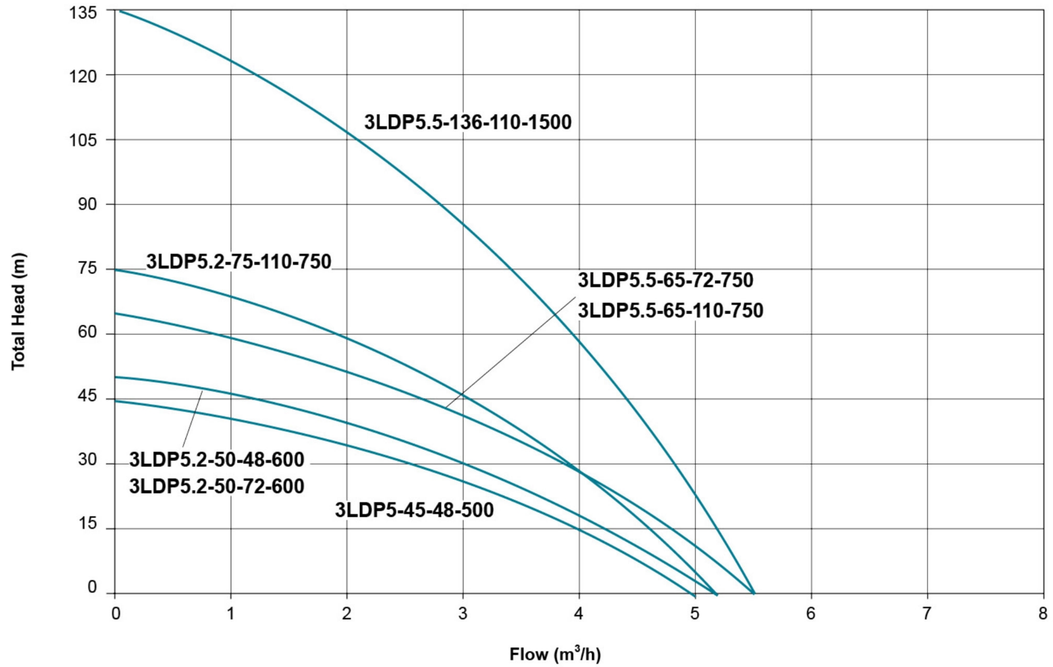
3" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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

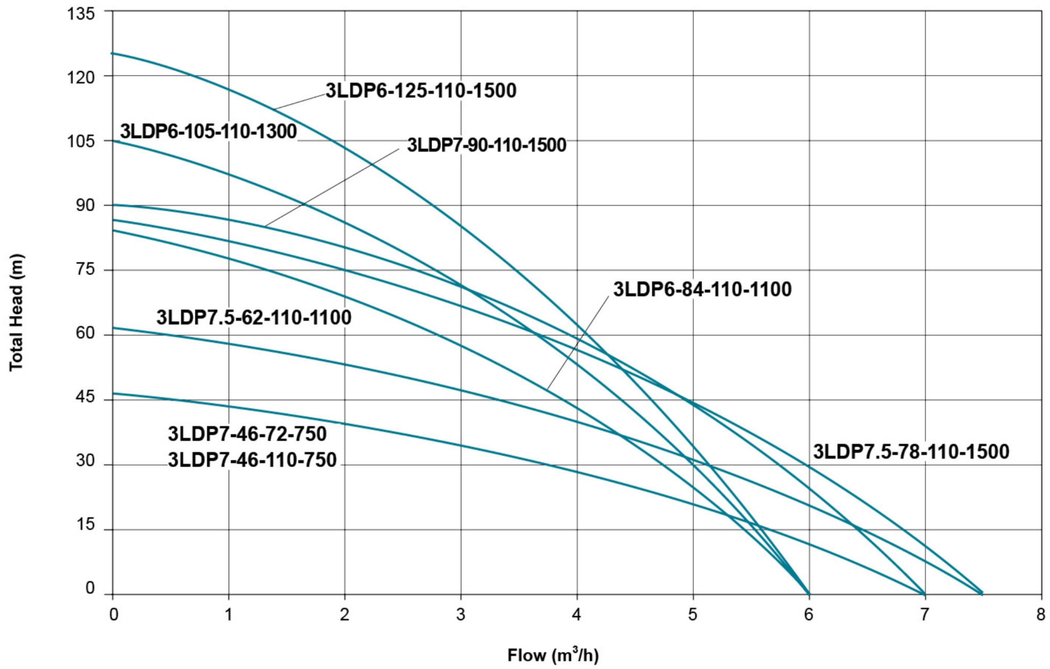
3" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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	≥l.3*Pump Power
3LDP5.5-136-110-1500	1500	110	110-150	5.5	136	1½"	2	<200	≥1.3*Pump Power

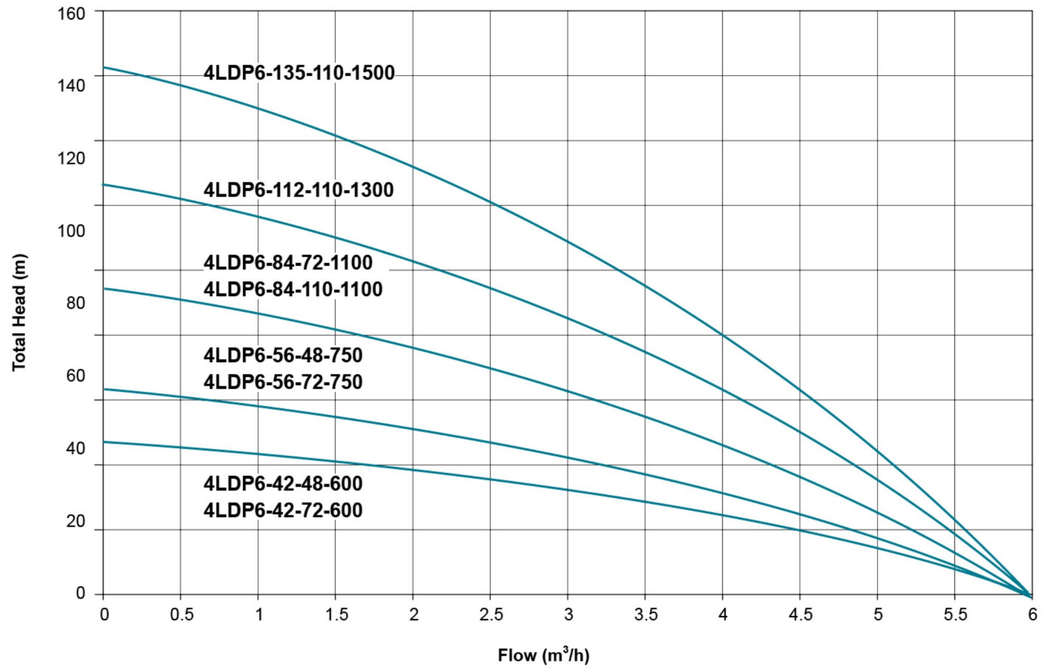
3" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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

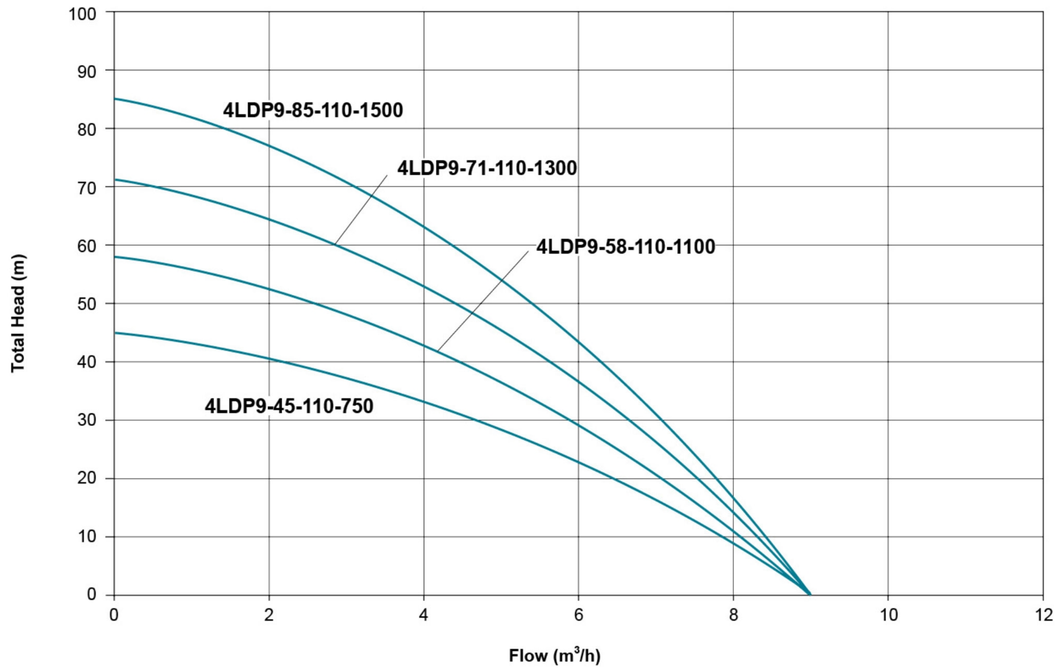
4" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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

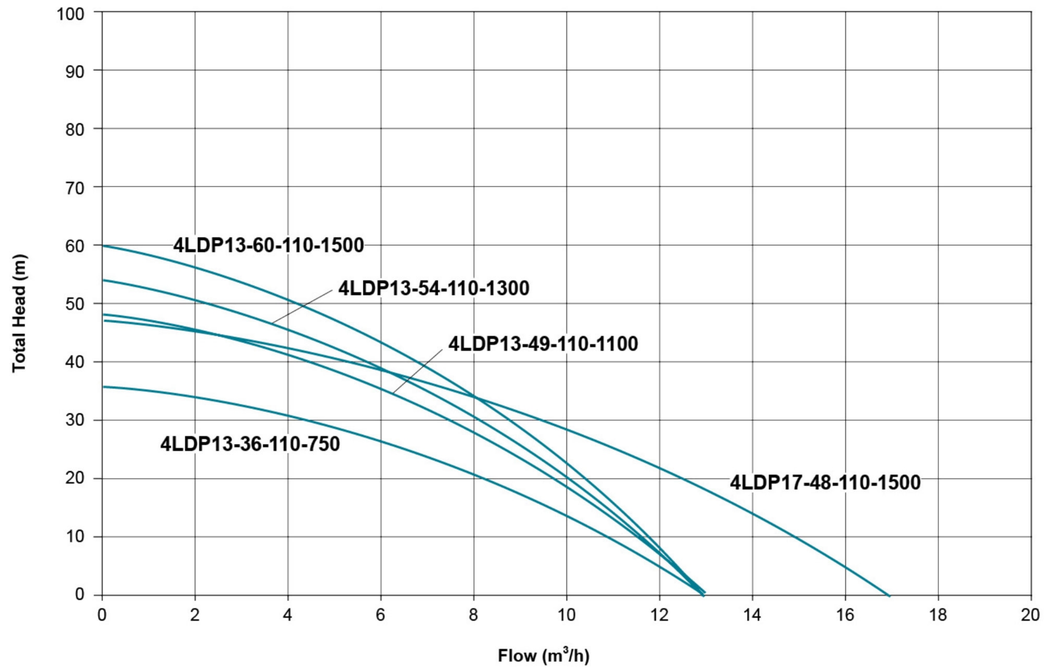
4" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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

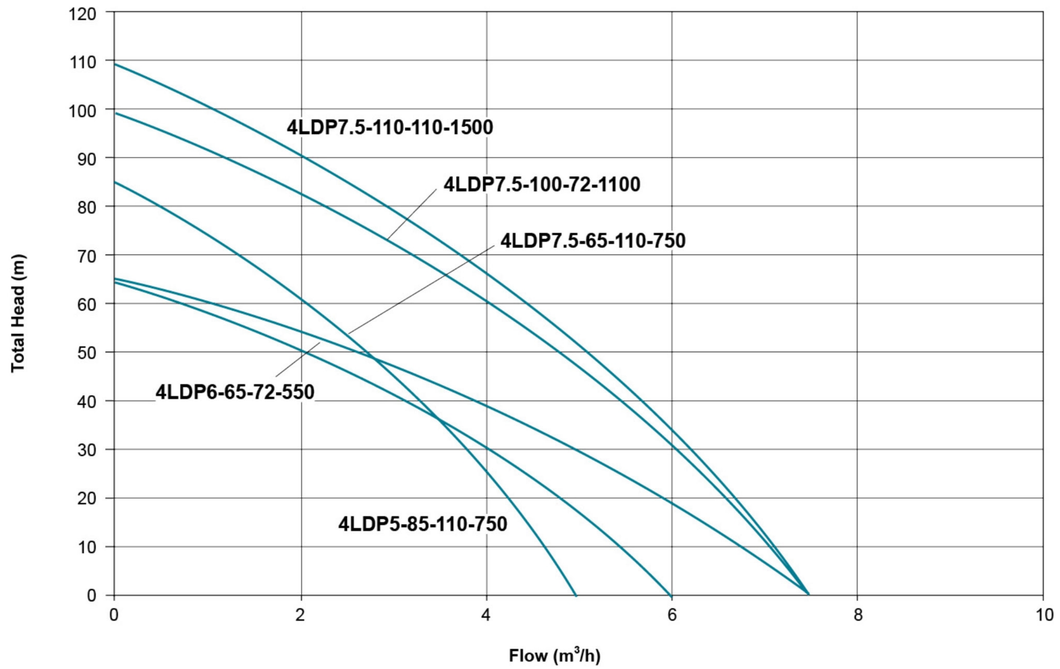
4" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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

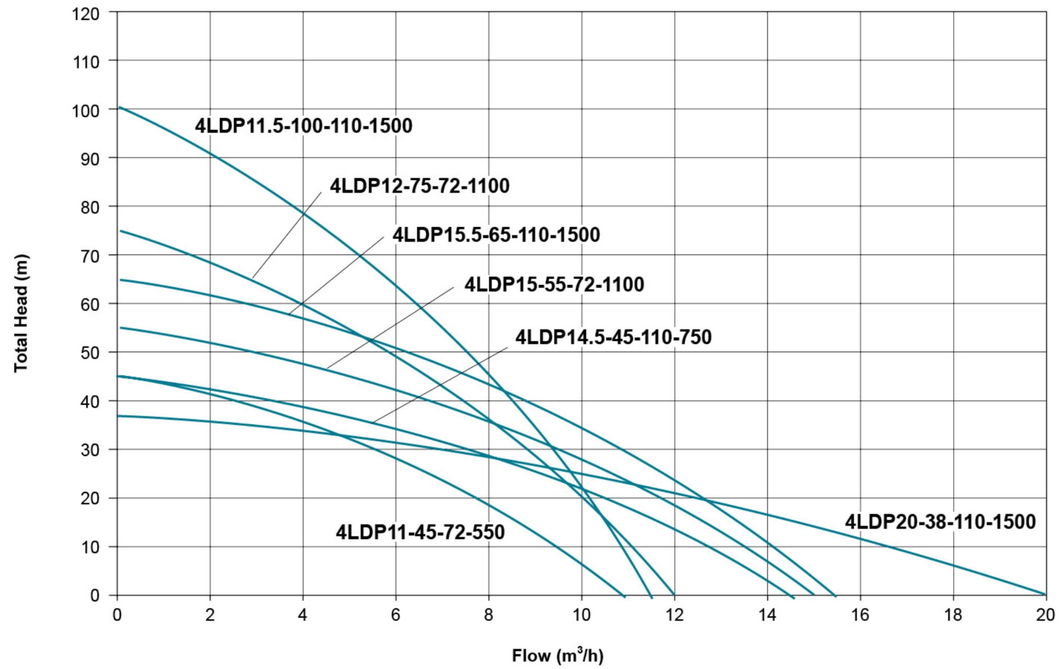
4" DC Solar Pump with Plastic Impeller



Technical Data

Model	Power (W)	Rated Voltage (V)	Optimum Input Voltage (V)	Max. Flow (m^3/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 (m^3/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

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

DC

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 peed & 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℃), 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℃	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			