

LPY

Hybrid AC/DC Solar Submersible Pump With Plastic Impeller



Applications

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

Pump Features

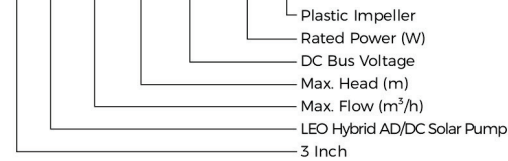
- With MPPT AC/DC Controller
- Plastic Impeller and diffuser
- AISI304 oil chamber & outlet
- High efficiency PMSM brushless motor (PMSM; Permanent-Magnet Synchronous Motor)

MPPT AC/DC Controller

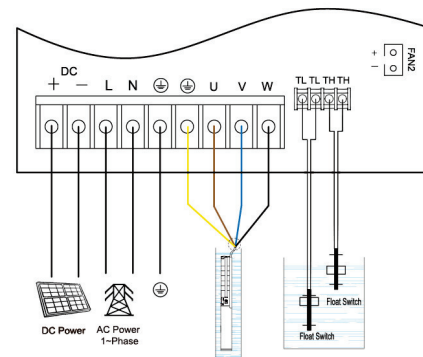
- Can be used for both AC and DC power supply
- Enclosures class: IP55
- Ambient temperature: -15 ~ 60°C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

Identification Codes

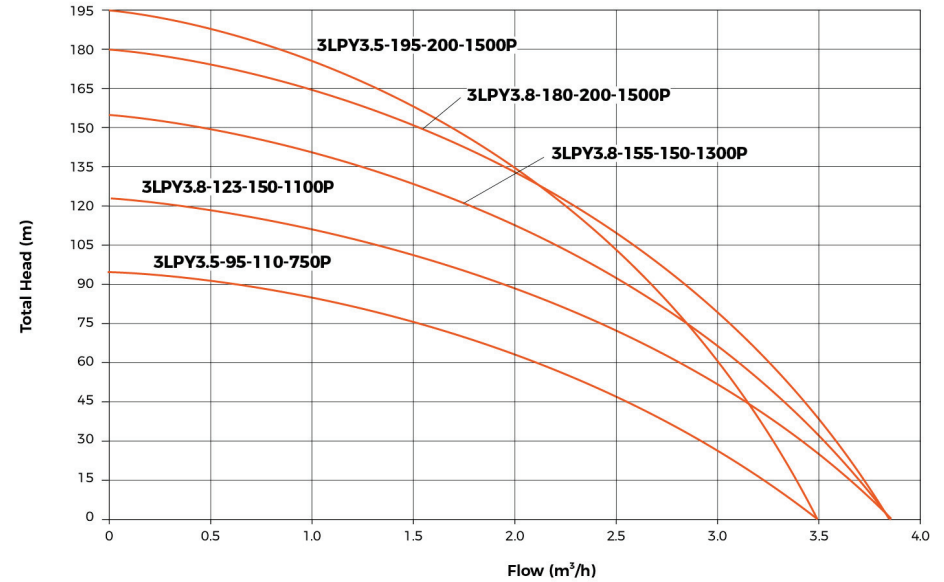
3 LPY 3.5 - 95 - 110 - 750 P



Wiring Diagram



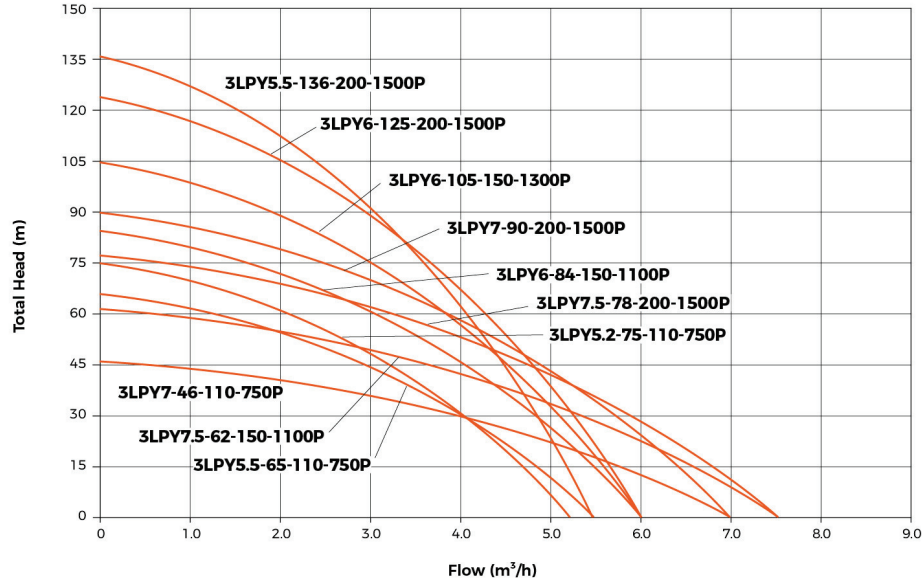
3LPY



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
3LPY3.5-95-110-750P	750	80-280	90-200	3.5	95	1½"	2	<430	≥1.3*Pump Power
3LPY3.8-123-150-1100P	1100	80-280	90-300	3.8	123	1½"	2	<430	≥1.3*Pump Power
3LPY3.8-155-150-1300P	1300	80-280	90-300	3.8	155	1½"	2	<430	≥1.3*Pump Power
3LPY3.8-180-200-1500P	1500	80-280	90-380	3.8	180	1½"	2	<430	≥1.3*Pump Power
3LPY3.5-195-200-1500P	1500	80-280	90-380	3.5	195	1½"	2	<430	≥1.3*Pump Power

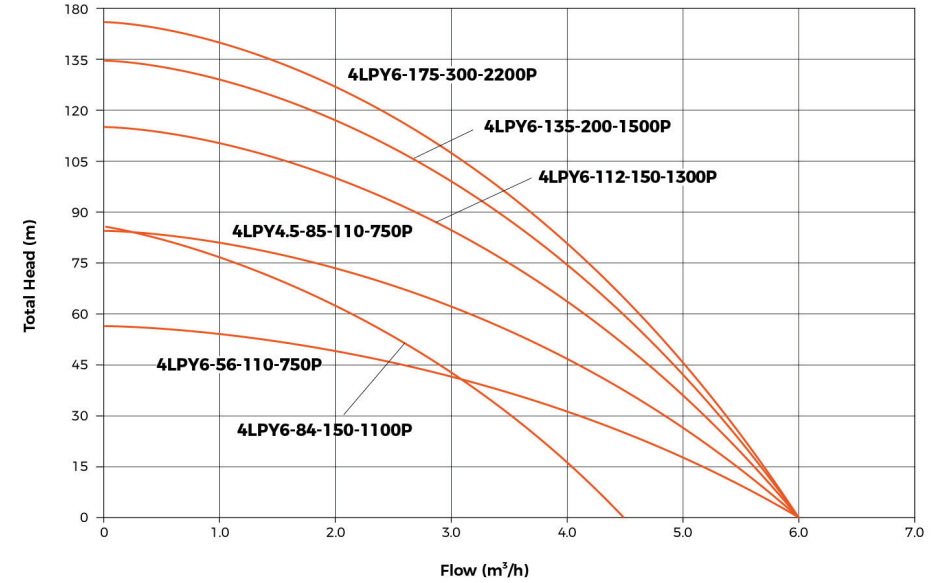
3LPY



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	90-380	6	125	1½"	2	<430	≥1.3*Pump Power
3LPY5.5-136-200-1500P	1500	80-280	90-380	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	90-380	7.5	78	1½"	2	<430	≥1.3*Pump Power
3LPY7-90-200-1500P	1500	80-280	90-380	7	90	1½"	2	<430	≥1.3*Pump Power

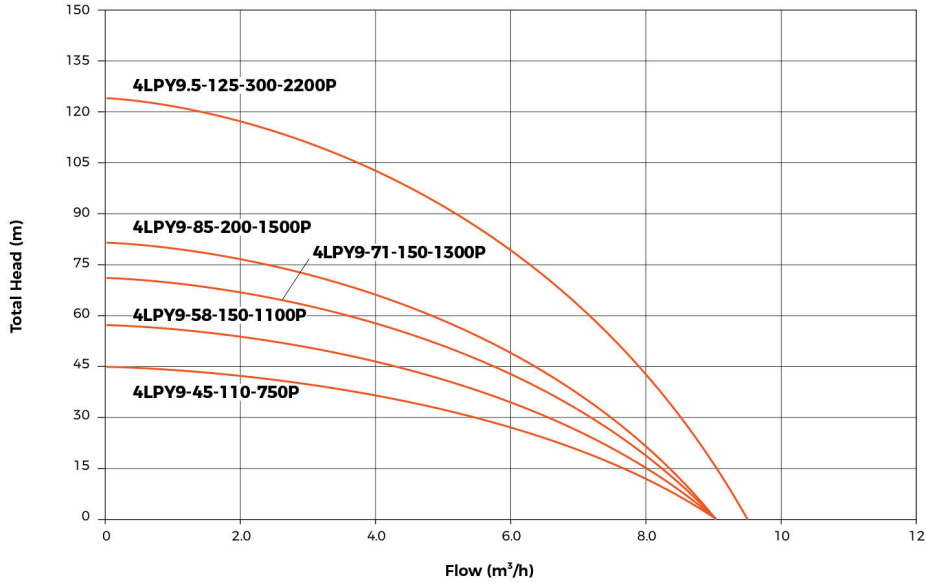
4LPY



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	90-380	6	135	1¼"	2	<430	≥1.3*Pump Power
4LPY6-175-300-2200P	2200	80-280	120-430	6	175	1¼"	2	<430	≥1.3*Pump Power

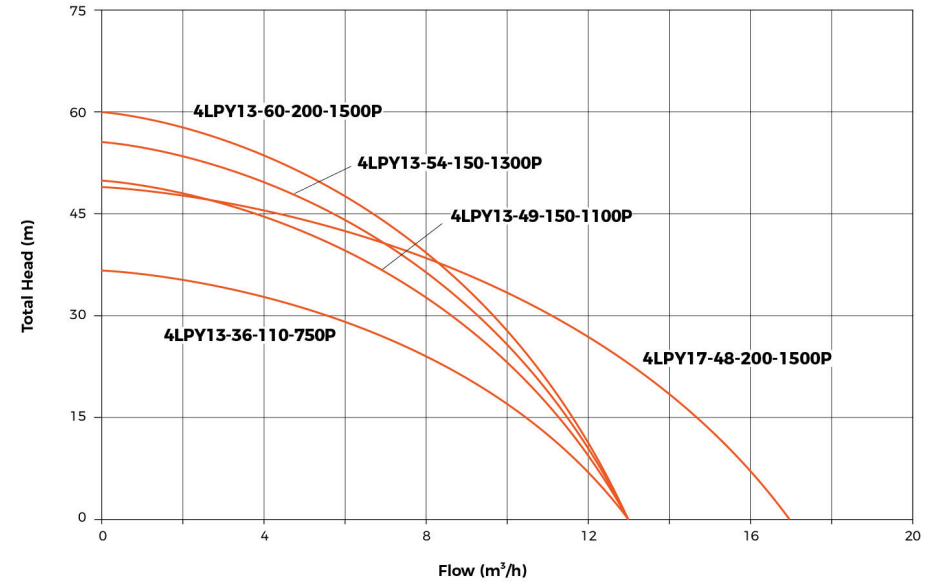
4LPY



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m ³ /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	90-380	9	85	2"	2	<430	≥1.3*Pump Power
4LPY9.5-125-300-2200P	2200	80-280	120-430	9.5	125	2"	2	<430	≥1.3*Pump Power

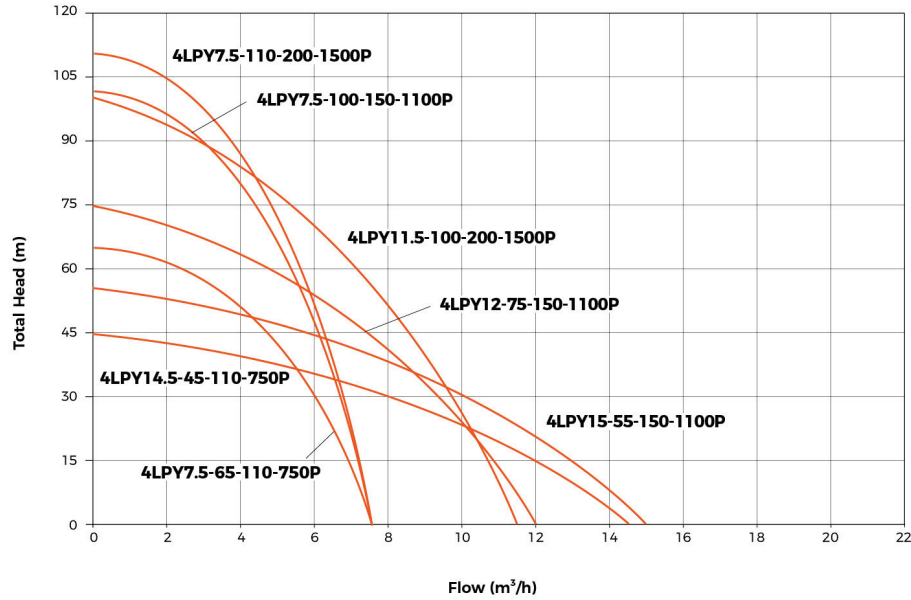
4LPY



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m ³ /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	90-380	13	60	2"	2	<430	≥1.3*Pump Power
4LPY17-48-200-1500P	1500	80-280	90-380	17	48	2"	2	<430	≥1.3*Pump Power

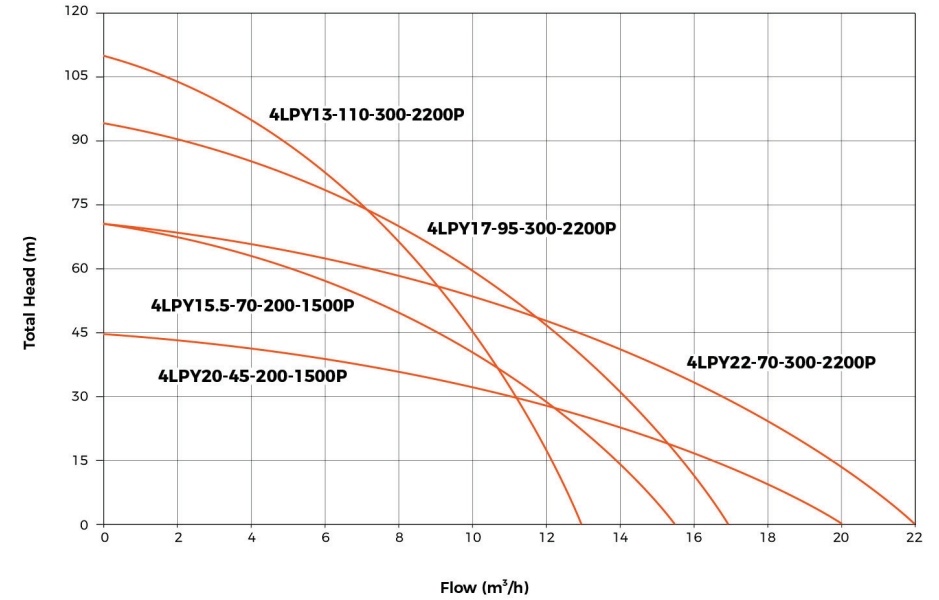
4LPY



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	90-380	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	90-380	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

4LPY



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	120-430	13	110	2"	2	<430	≥1.3*Pump Power
4LPY15.5-70-200-1500P	1500	80-280	90-380	15.5	70	2"	2	<430	≥1.3*Pump Power
4LPY17-95-300-2200P	2200	80-280	120-430	17	95	2"	2	<430	≥1.3*Pump Power
4LPY20-45-200-1500P	1500	80-280	90-380	20	45	2"	2	<430	≥1.3*Pump Power
4LPY22-70-300-2200P	2200	80-280	120-430	22	70	2"	2	<430	≥1.3*Pump Power

Applications

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

Pump Features

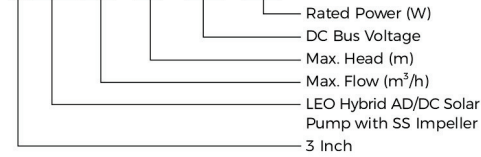
- With MPPT AC/DC Controller
- AISI304 impeller and diffuser
- AISI304 oil chamber
- High efficiency PMSM brushless motor (PMSM: Permanent-Magnet Synchronous Motor)

MPPT AC/DC Controller

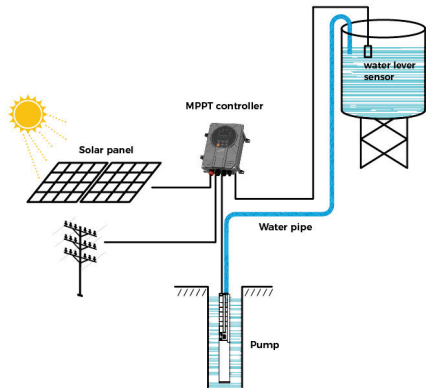
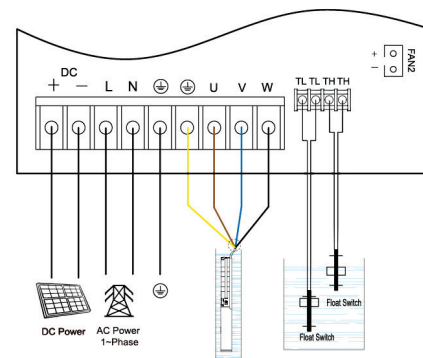
- Can be used for both AC and DC power supply
- Enclosures class: IP55
- Ambient temperature: -15 ~ 60°C
- LED Displays working conditions & Fault code
- Auto Start & Stop
- Soft start & VFD function

Identification Codes

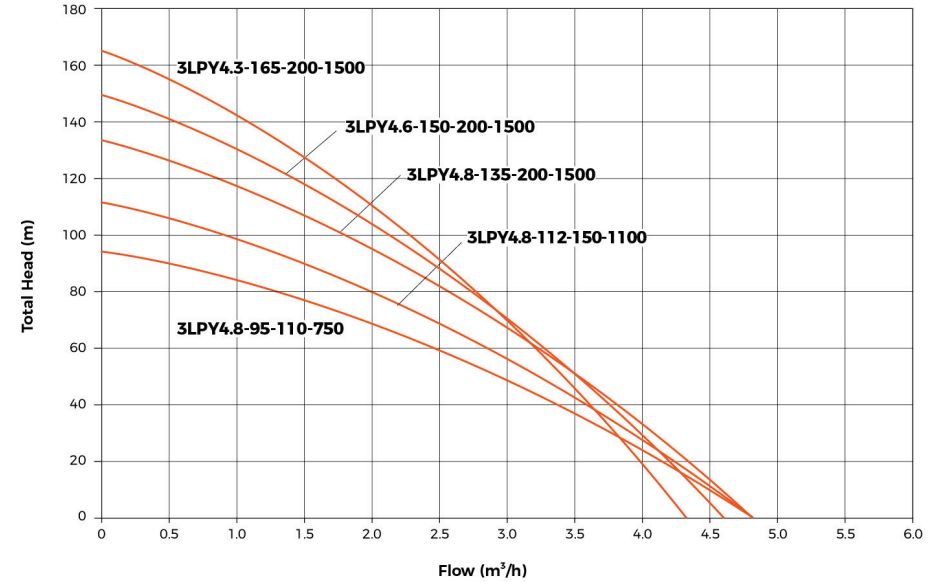
3 LPY 4.8 - 95 - 110 - 750



Wiring Diagram



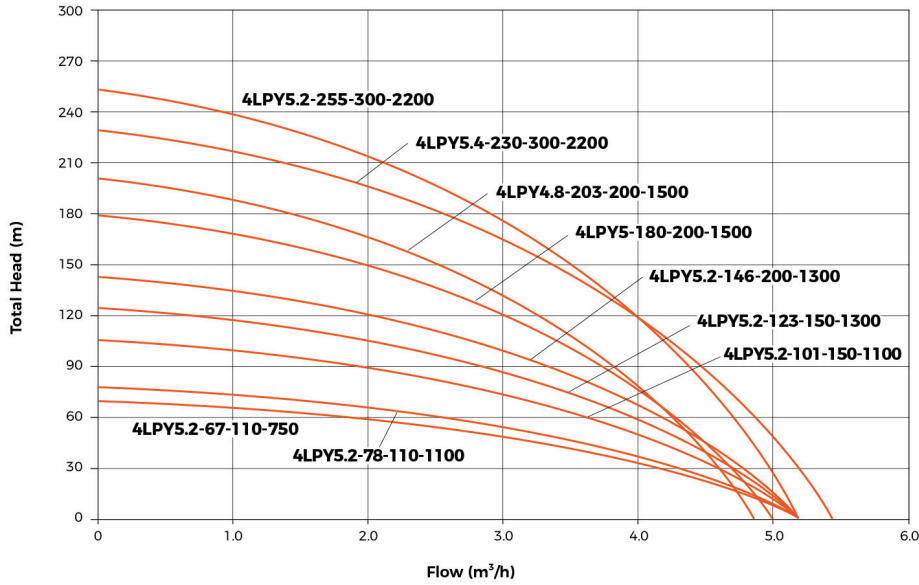
3LPY



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m ³ /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	1½"	2	<430	≥1.3*Pump Power
3LPY4.8-112-150-1100	1100	80-280	90-300	4.8	112	1½"	2	<430	≥1.3*Pump Power
3LPY4.8-135-200-1500	1500	80-280	90-380	4.8	135	1½"	2	<430	≥1.3*Pump Power
3LPY4.6-150-200-1500	1500	80-280	90-380	4.6	150	1½"	2	<430	≥1.3*Pump Power
3LPY4.3-165-200-1500	1500	80-280	90-380	4.3	165	1½"	2	<430	≥1.3*Pump Power

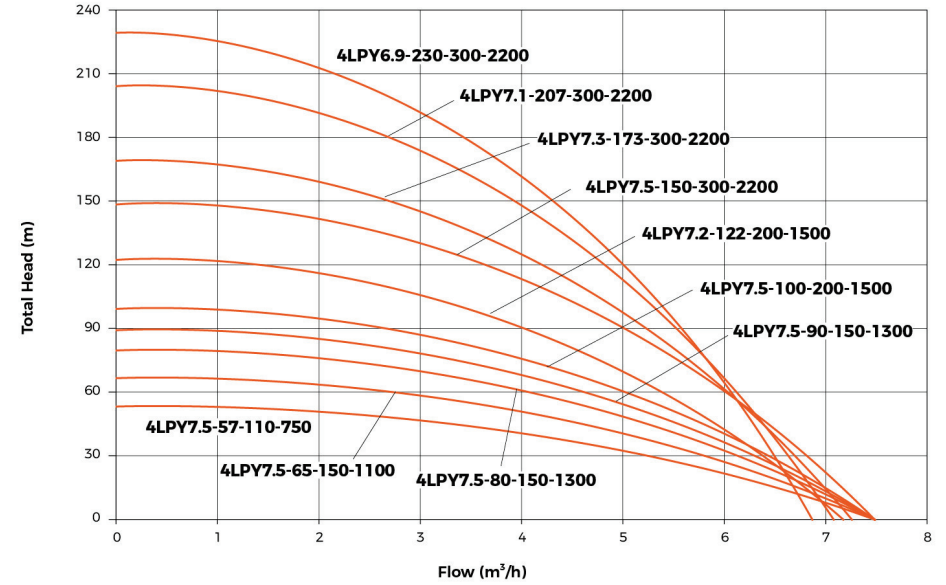
4LPY



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	90-380	5.2	146	1¼"	2	<430	≥1.3*Pump Power
4LPY5-180-200-1500	1500	80-280	90-380	5	180	1¼"	2	<430	≥1.3*Pump Power
4LPY4.8-203-200-1500	1500	80-280	90-380	4.8	203	1¼"	2	<430	≥1.3*Pump Power
4LPY5.4-230-300-2200	2200	80-280	120-430	5.4	230	1¼"	2	<430	≥1.3*Pump Power
4LPY5.2-255-300-2200	2200	80-280	120-430	5.2	255	1¼"	2	<430	≥1.3*Pump Power

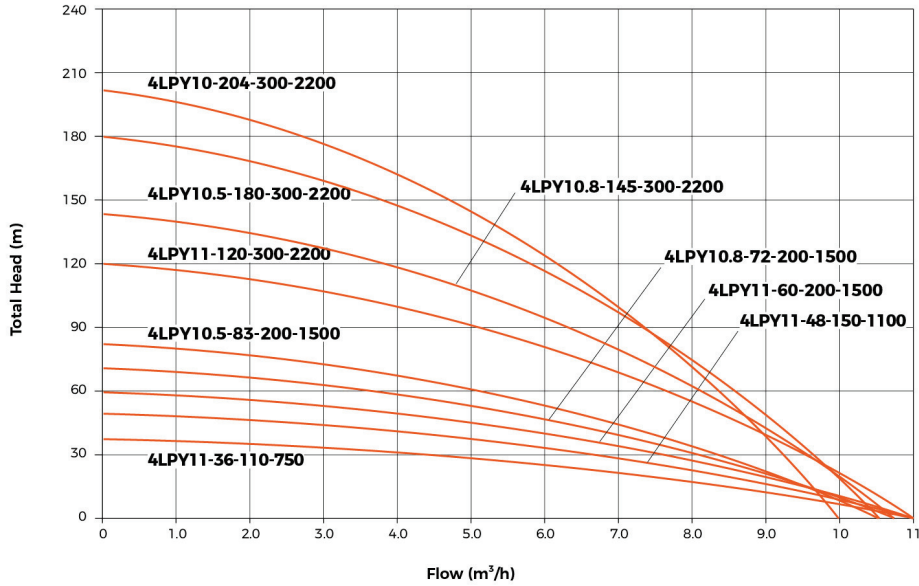
4LPY



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	90-380	7.5	100	1¼"	2	<430	≥1.3*Pump Power
4LPY7.2-122-200-1500	1500	80-280	90-380	7.2	122	1¼"	2	<430	≥1.3*Pump Power
4LPY7.5-150-300-2200	2200	80-280	120-430	7.5	150	1¼"	2	<430	≥1.3*Pump Power
4LPY7.3-173-300-2200	2200	80-280	120-430	7.3	173	1¼"	2	<430	≥1.3*Pump Power
4LPY7.1-207-300-2200	2200	80-280	120-430	7.1	207	1¼"	2	<430	≥1.3*Pump Power
4LPY6.9-230-300-2200	2200	80-280	120-430	6.9	230	1¼"	2	<430	≥1.3*Pump Power

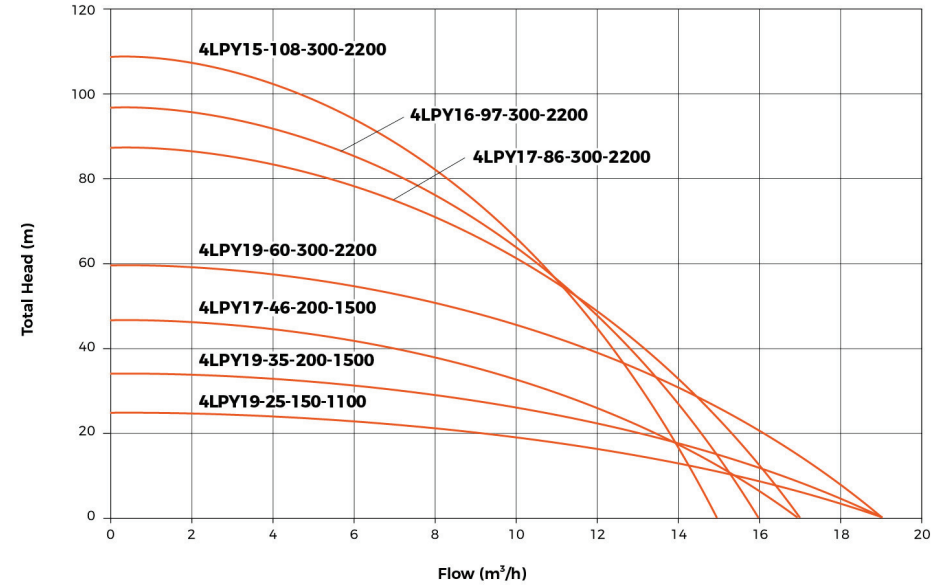
4LPY



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m ³ /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	90-380	11	60	2"	2	<430	≥1.3*Pump Power
4LPY10.8-72-200-1500	1500	80-280	90-380	10.8	72	2"	2	<430	≥1.3*Pump Power
4LPY10.5-83-200-1500	1500	80-280	90-380	10.5	83	2"	2	<430	≥1.3*Pump Power
4LPY11-120-300-2200	2200	80-280	120-430	11	120	2"	2	<430	≥1.3*Pump Power
4LPY10.8-145-300-2200	2200	80-280	120-430	10.8	145	2"	2	<430	≥1.3*Pump Power
4LPY10.5-180-300-2200	2200	80-280	120-430	10.5	180	2"	2	<430	≥1.3*Pump Power
4LPY10-204-300-2200	2200	80-280	120-430	10	204	2"	2	<430	≥1.3*Pump Power

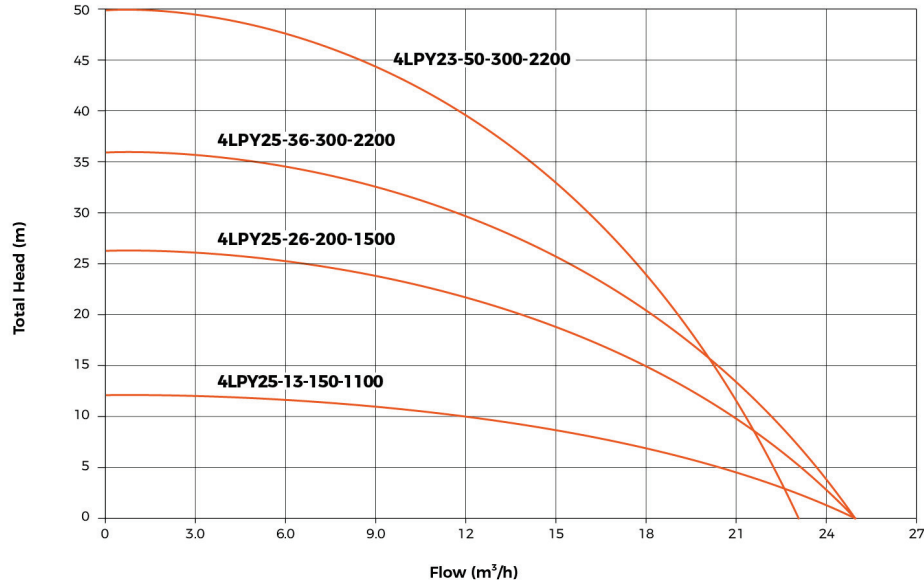
4LPY



Technical Data

Model	Power (W)	AC Voltage (V)	DC Voltage (V)	Max. Flow (m ³ /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	90-380	19	35	2"	2	<430	≥1.3*Pump Power
4LPY17-46-200-1500	1500	80-280	90-380	17	46	2"	2	<430	≥1.3*Pump Power
4LPY19-60-300-2200	2200	80-280	120-430	19	60	2"	2	<430	≥1.3*Pump Power
4LPY17-86-300-2200	2200	80-280	120-430	17	86	2"	2	<430	≥1.3*Pump Power
4LPY16-97-300-2200	2200	80-280	120-430	16	97	2"	2	<430	≥1.3*Pump Power
4LPY15-108-300-2200	2200	80-280	120-430	15	108	2"	2	<430	≥1.3*Pump Power

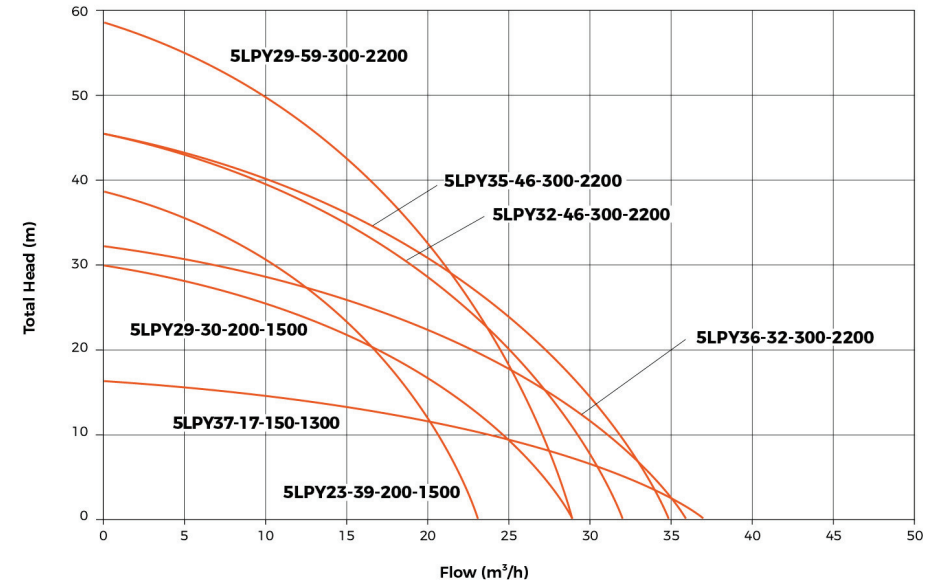
4LPY



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	90-380	25	26	2"	2	<430	≥1.3*Pump Power
4LPY25-36-300-2200	2200	80-280	120-430	25	36	2"	2	<430	≥1.3*Pump Power
4LPY23-50-300-2200	2200	80-280	120-430	23	50	2"	2	<430	≥1.3*Pump Power

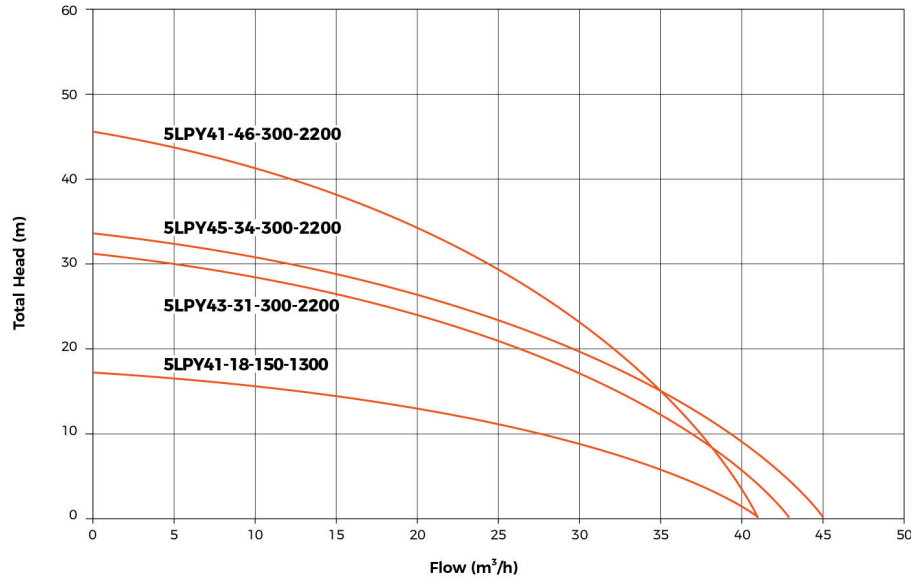
5LPY



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	90-380	23	39	2½"	2	<430	≥1.3*Pump Power
5LPY29-59-300-2200	2200	80-280	120-430	29	59	2½"	2	<430	≥1.3*Pump Power
5LPY29-30-200-1500	1500	80-280	90-380	29	30	2½"	2	<430	≥1.3*Pump Power
5LPY32-46-300-2200	2200	80-280	120-430	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	120-430	36	32	2½"	2	<430	≥1.3*Pump Power
5LPY35-46-300-2200	2200	80-280	120-430	35	46	2½"	2	<430	≥1.3*Pump Power

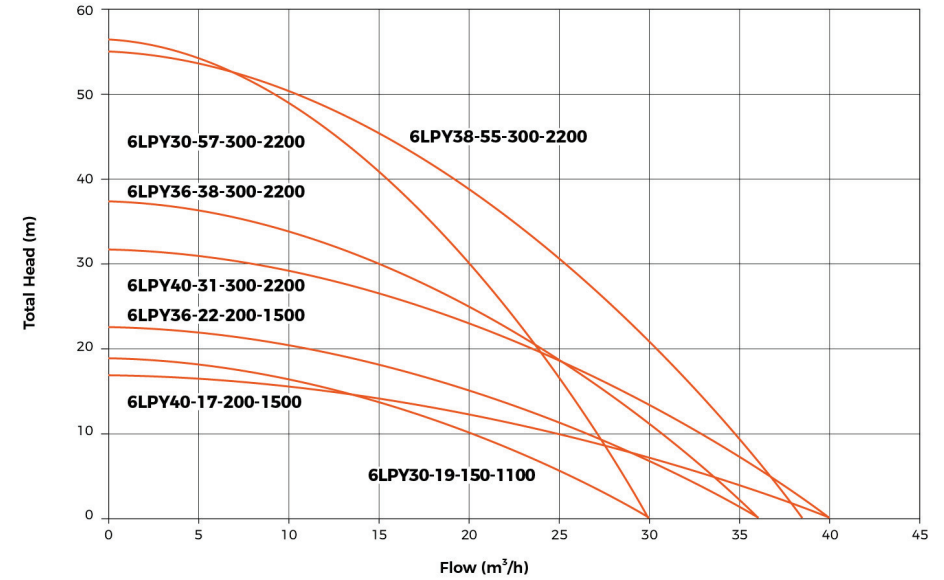
5LPY



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	120-430	43	31	2½"	2	<430	≥1.3*Pump Power
5LPY41-46-300-2200	2200	80-280	120-430	41	46	2½"	2	<430	≥1.3*Pump Power
5LPY45-34-300-2200	2200	80-280	120-430	45	34	2½"	2	<430	≥1.3*Pump Power

6LPY



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	90-380	36	22	3"	2	<430	≥1.3*Pump Power
6LPY36-38-300-2200	2200	80-280	120-430	36	38	3"	2	<430	≥1.3*Pump Power
6LPY30-57-300-2200	2200	80-280	120-430	30	57	3"	2	<430	≥1.3*Pump Power
6LPY40-17-200-1500	2200	80-280	90-380	40	17	3"	2	<430	≥1.3*Pump Power
6LPY40-31-300-2200	2200	80-280	120-430	40	31	3"	2	<430	≥1.3*Pump Power
6LPY38-55-300-2200	2200	80-280	120-430	38	55	3"	2	<430	≥1.3*Pump Power