



4LPS Hybrid AC/DC Solar Submersible Pump Systems



4LPS

Applications

- 4LPS Hybrid AC/DC Solar Submersible Pumps are fitted with a permanent magnet, brushless motor, Which enables the efficient use of energy from a wide range of supply options. The pump system offers the perfect water supply solution in remote areas where water is scarce and the power supply is non-existent or unreliable. The structure of motor with double shields poses no pollution risk to drinking water. The integrated control system is built inside the motor to make it more compatible and reliable, while offering the MPPT function-Maximum Power Point Tracking, maximizing the utilization of power generated from the photovoltaic generator.

Characteristic

- Water-cooled motor, safe and poses no pollution risk to drinking water.
- Advanced brushless dc motor, saving energy and offering maximum efficiency
- Motor-Built-in, integrated controller, with MPPT and DSP Technology, offering the easiest and simplest installation.
- Intelligent frequency conversion algorithm, maximizing efficiency and saving energy
- A high degree of flexibility with regards to power supply and power range, offering a wide range of power sources to choose from,
- Can be powered from the mains and/ or power generators, guaranteeing operation day or night.
- Patented technology.
- Two years warranty

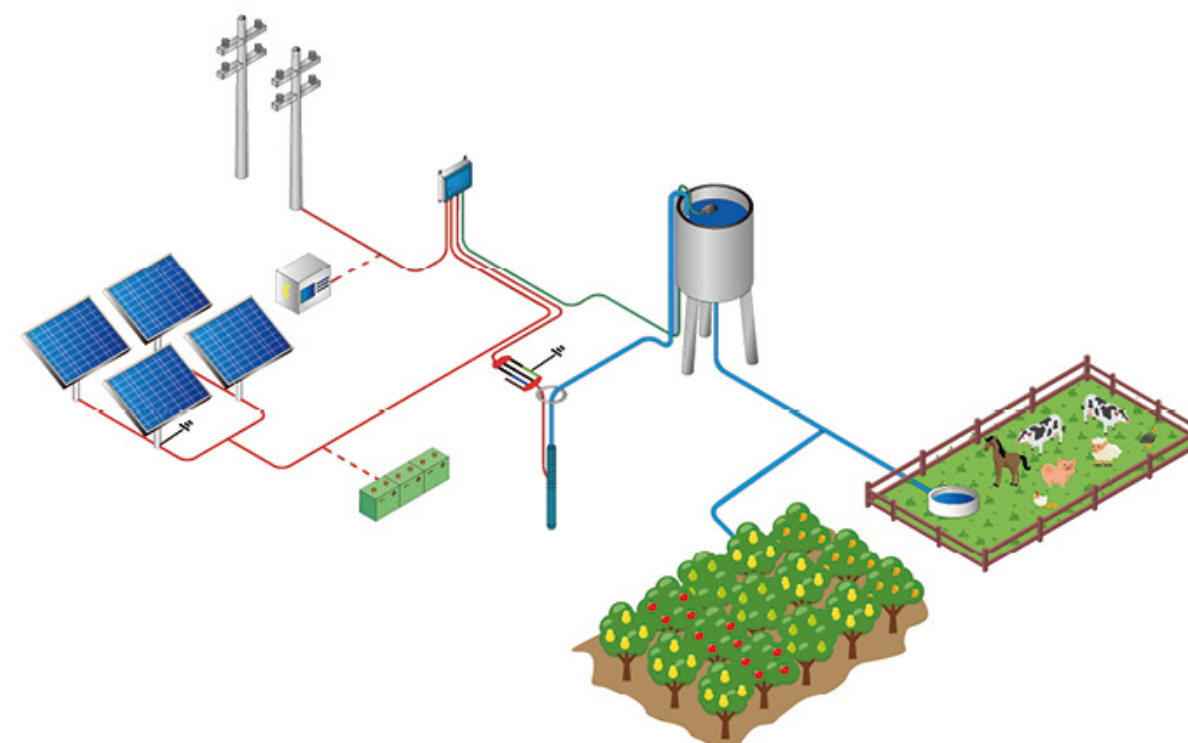
Suitable for a wide range of power supply

- Solar PV generators
- Wind driven generators
- Electrical Mains supply
- Storage batteries
- Diesel Generators (Genset)

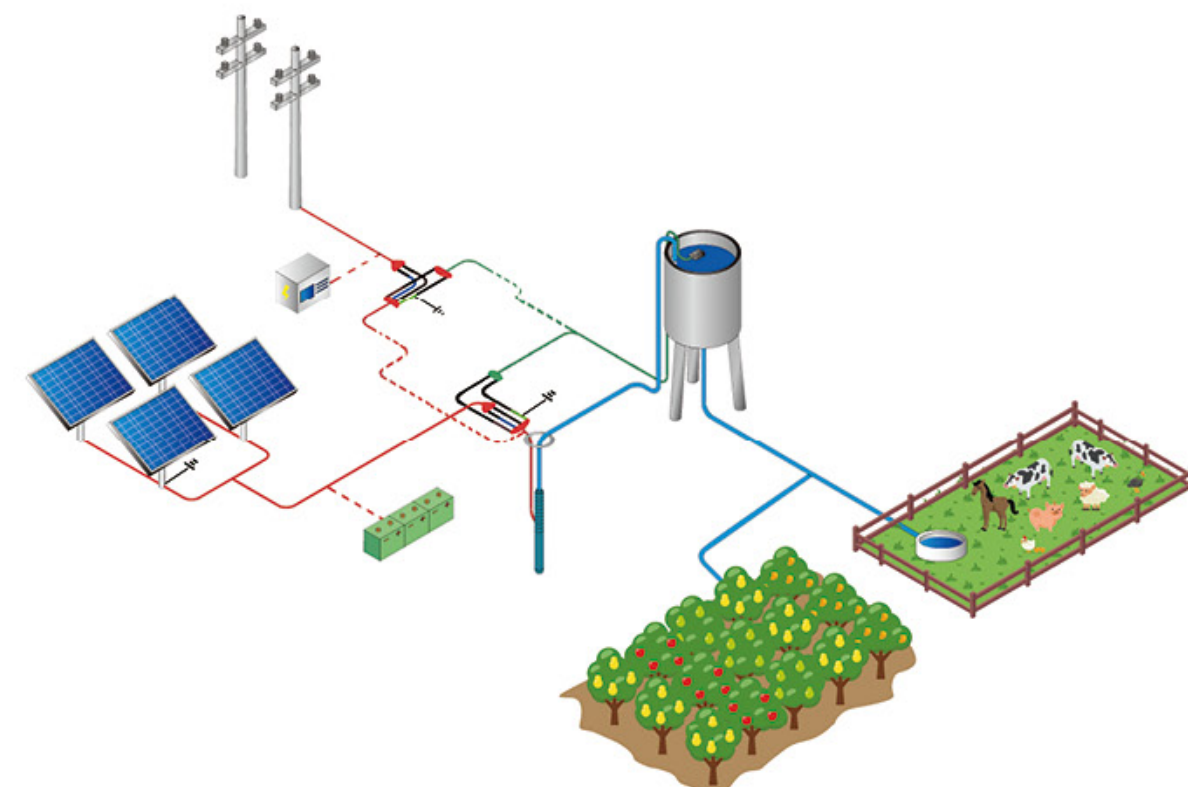
Supply voltage

Flexibility with regards to power supply and power range. the motor can be supplied with either DC or AC voltage:

- AC voltage range: 1 x 60 - 300 VAC, 50-60Hz
- DC voltage range: 60 - 400VDC
- Open circuit voltage: 60-440VOC
- Output power range: 0.37 - 3.0Kw for DC
- Output power range: 0.37 - 2.2Kw for AC

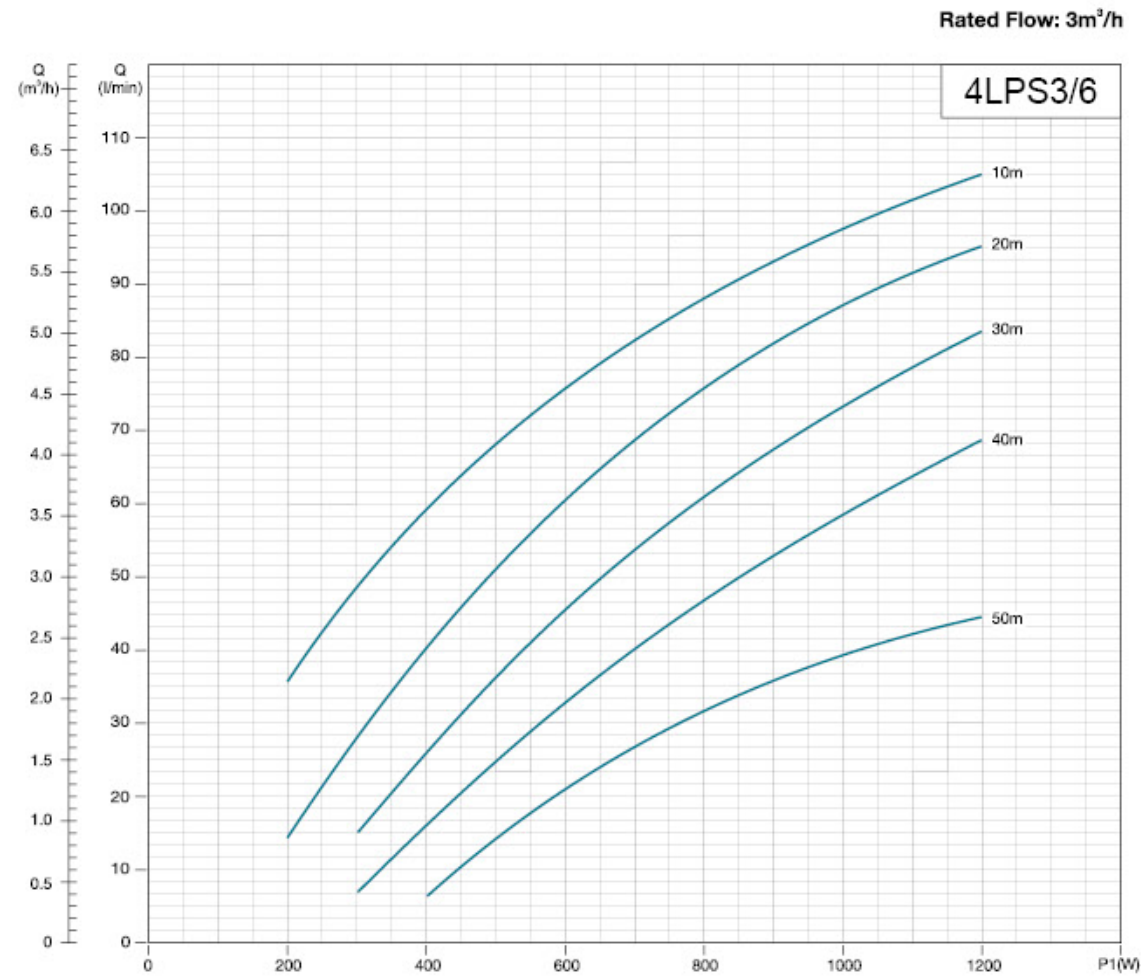


Hybrid Power Source



AC or DC Power Source

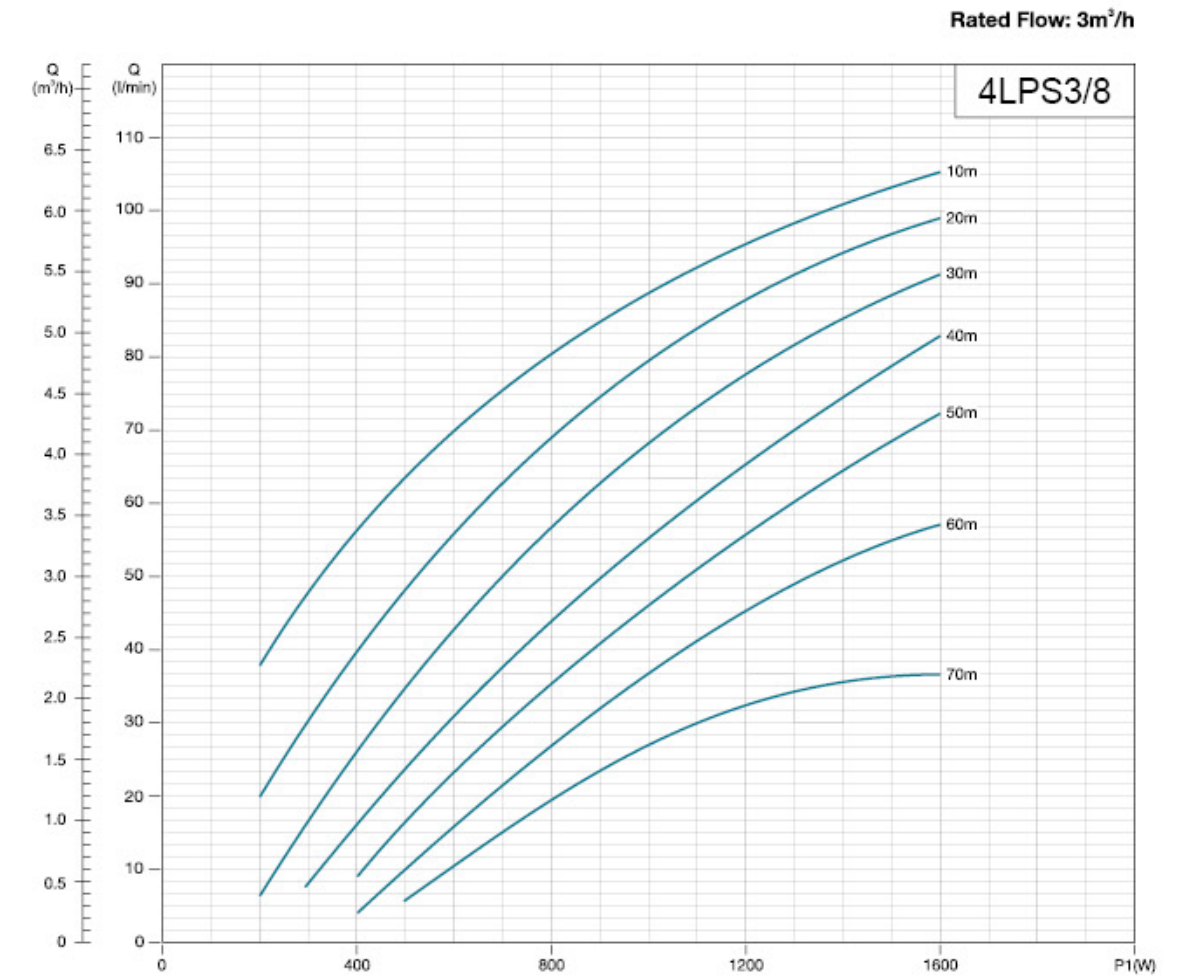
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Technical Data

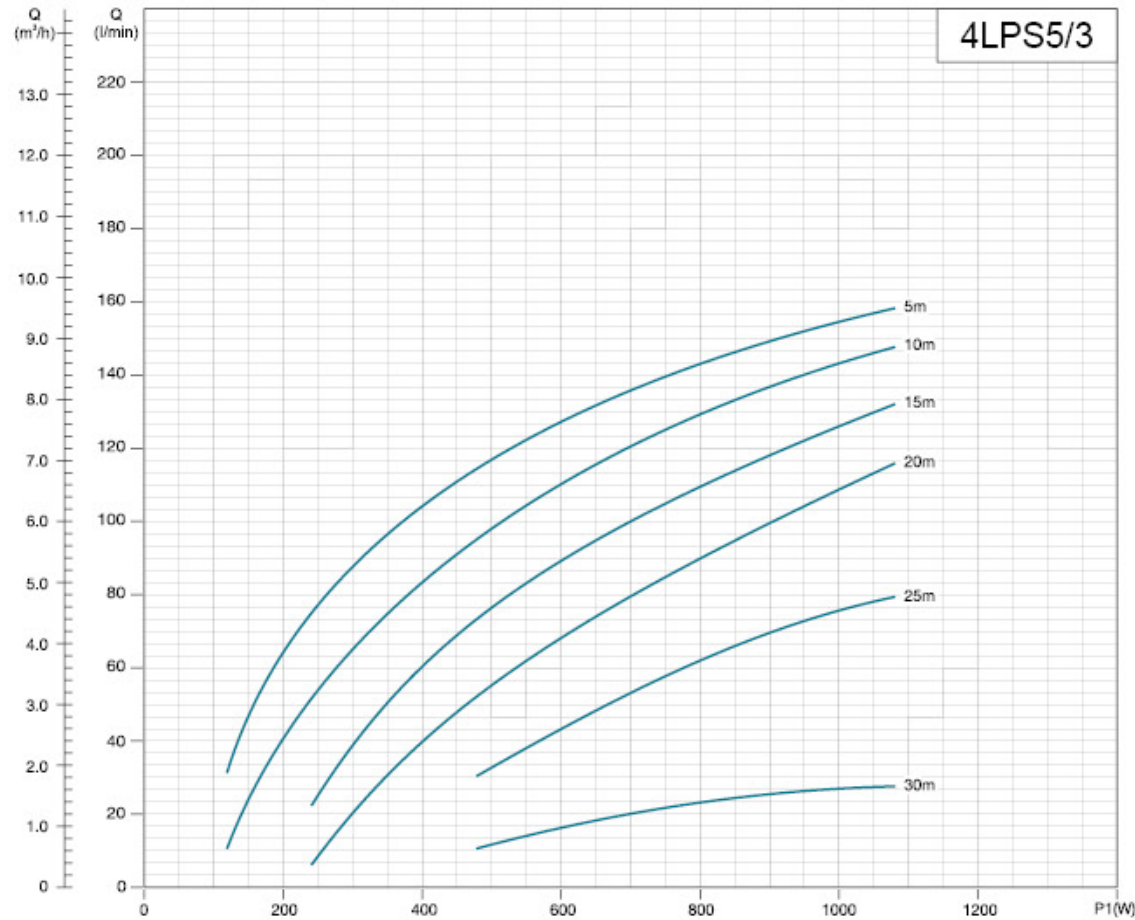
Model		Input Power (W)													
4LPS3/6		200	300	400	500	600	700	800	900	1000	1200				
		Q(m³/h)													
H(m)	10	2.16	2.94	3.6	4.08	4.5	4.86	5.22	5.58	5.82	6.18				
	20	0.9	1.8	2.34	3.06	3.6	4.02	4.38	4.8	5.04	5.64				
	30	/	0.9	1.5	2.1	2.58	3	3.48	3.9	4.26	4.92				
	40	/	0.42	0.84	1.5	1.92	2.28	2.64	3.06	3.42	4.08				
	50	/	/	0.42	0.84	1.2	1.56	1.86	2.28	2.28	2.64				
Rated Power		1.0 HP		Outlet		1.25"		MOTOR 1~60Hz Automatic adjustment							
Max Input Power		1.2 KW		Pump size		4"									
DC Voltage range		60-400 V		Max head		62 m									
AC Voltage range		1×60-300V , 50/60Hz		Max flow		6.6 m³/h									

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Rated Flow: 5m³/h



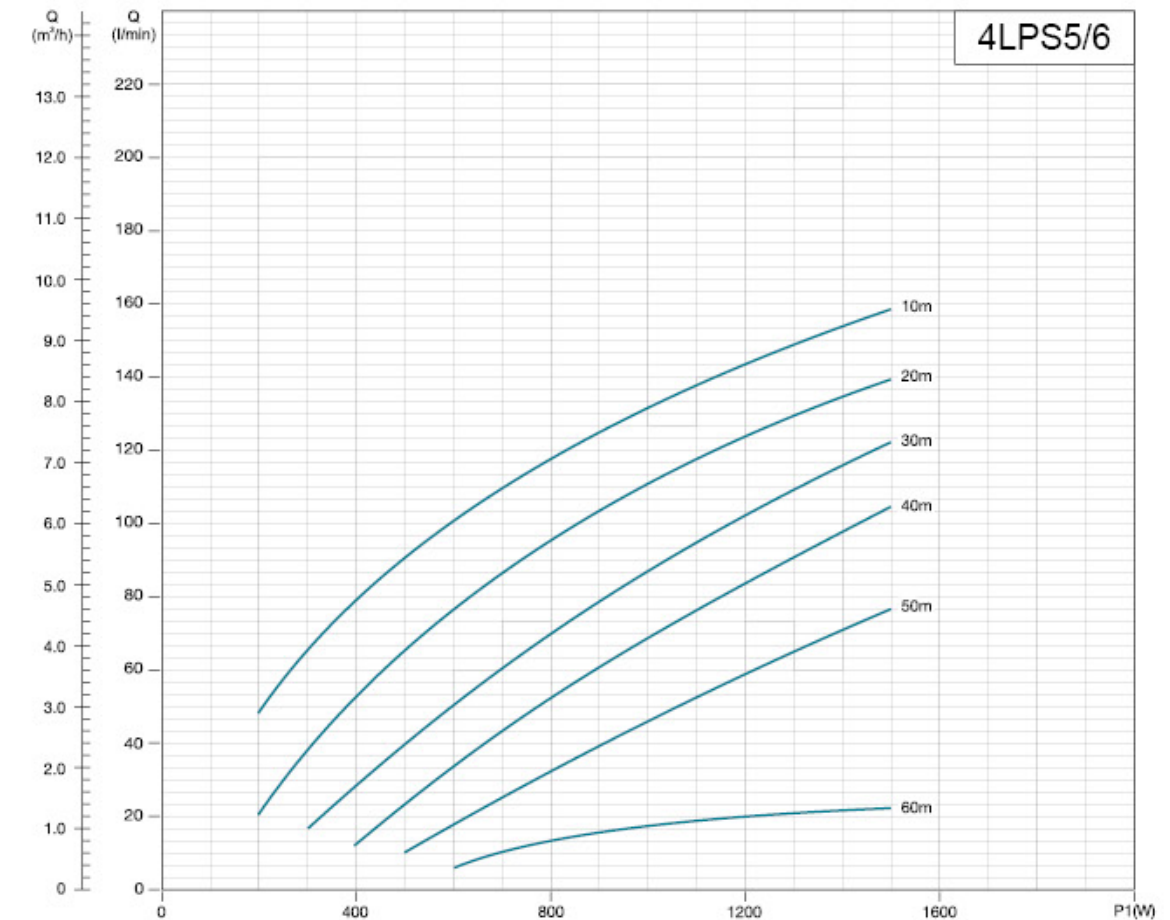
Technical Data

Model		Input Power (W)								
4LPS5/3		100	200	300	400	500	600	700	800	900
		Q(m³/h)								
H(m)	5	1.86	4.44	5.94	6.9	7.68	8.16	8.7	9.06	9.48
	10	0.66	2.82	4.62	5.64	6.48	7.14	7.68	8.46	8.88
	15	/	1.32	3	4.08	4.98	5.82	6.36	7.5	7.92
	20	/	0.36	1.38	2.94	3.9	4.32	5.22	6.36	6.96
	25	/	/	/	1.8	2.34	3.06	3.84	4.5	4.74
	30	/	/	/	0.6	1.08	1.14	1.38	1.62	1.62

Rated Power	0.5 HP	Outlet	1.25"	MOTOR 1~60Hz Automatic adjustment
Max Input Power	0.9 KW	Pump size	4"	
DC Voltage range	60-400 V	Max head	35 m	
AC Voltage range	1×60-300V , 50/60Hz	Max flow	10.1 m³/h	

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Rated Flow: 5m³/h



Technical Data

Model		Input Power (W)			
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