



LPS: With Built-in Inverter

Applications

- Remote areas where grid power supply is non-existent or instable
- Agriculture irrigation, Livestock feeding, Domestic water lifting
- Clear water supply from wells or reservoirs
- Off grid solar pumping system

Material Features

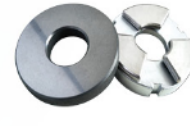
- AISI304 Impeller & Diffuser & Pump shaft
- High precision / strength graphite bearing
- 100% Pure copper winding



Impeller and Diffuser



Top chock



High-strength thrust bearing

Motor Features

- Permanent magnet brushless synchronous motor - High Efficiency
- Double shield structure with water filled - No pollution risk to drinking water
- Intelligent inverter built inside (Have MPPT and VFD function)
- Built-in Inverter easy to replace



Inverter



Motor



Pump

Intelligent Inverter

- **MPPT** - Maximum Power Point Tracking function - Save solar panel (Maximizing utilization of power generated by solar panels)
- **VFD** - Variable Frequency Drive function provides Max. Speed 6000rpm
- Can be powered by both AC and DC power supply
- Suitable for Solar panel, Battery, Grid power supply, Generators
- Multi-protection function
- Dry-run protection, Over Current Protection, Phase loss protection, Soft start

Input Voltage

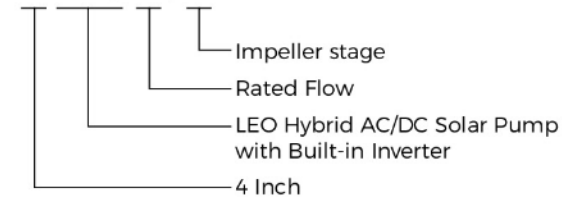
- AC Voltage Range: 1-Phase, 60~300V AC, 50~60Hz
- DC Voltage Range: 60 ~ 400V
- Solar Panel Open Circuit Voltage (VOC): 60 ~ 410V (Without CN400)
- Solar Panel Open Circuit Voltage (VOC): 95 ~ 410V (With CN400)

Input Power Range

- DC Supply: 0.37 ~ 3kW
- AC Supply: 0.37 ~ 2.2kW

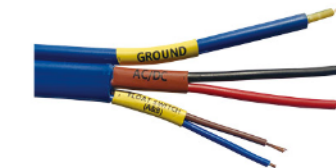
Identification Codes

4 LPS 2 / 7



Intelligent inverter

CN400: LPS Series Intelligent Controller



LPS Pump Cable

Applications

- Designed for LPS series Hybrid AC/DC Solar Pump

Function

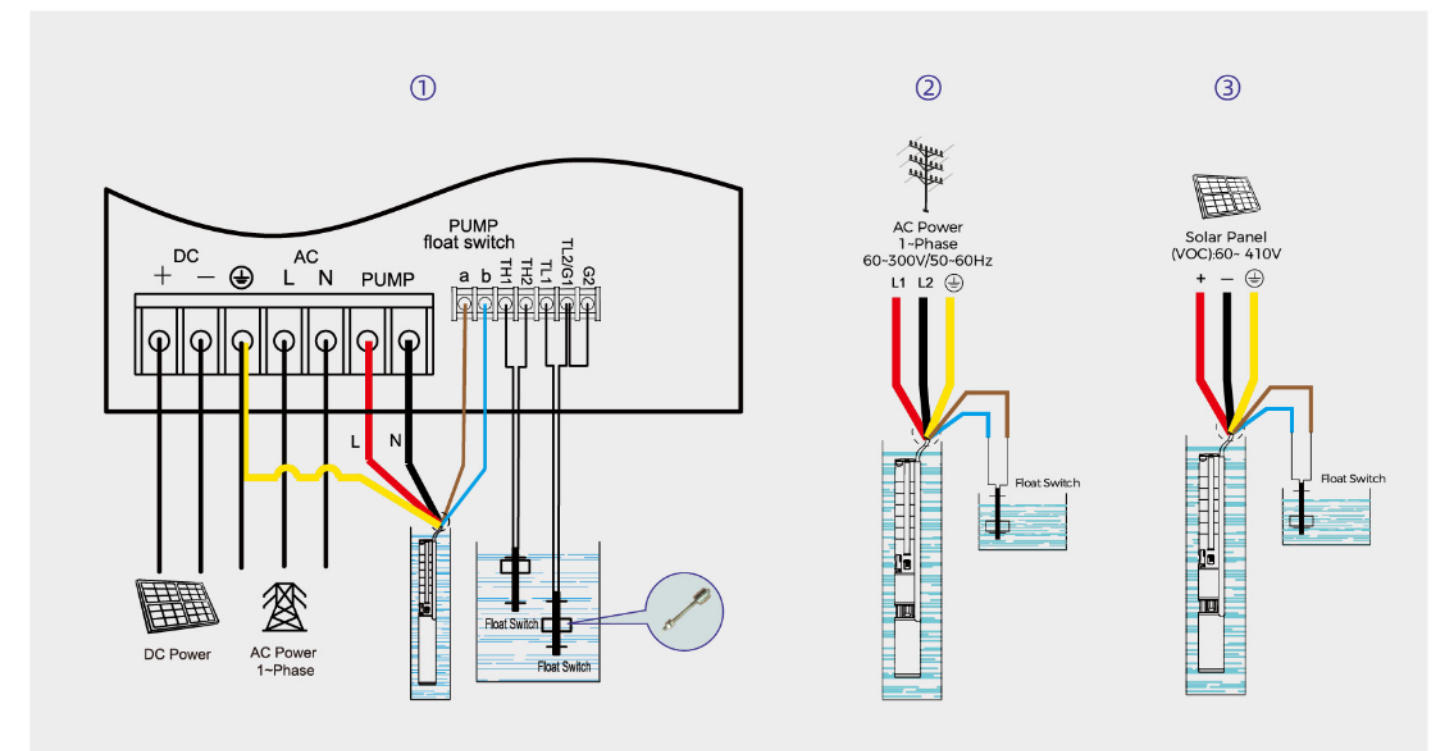
- Auto Switch between AC and DC power supply. (Without CN400 must switch power supply between AC and DC manually)
- Mode setting ① Only DC Mode ② Only AC Mode ③ Auto Mode
On Auto Mode:
→ With enough strong DC power, pump only use DC power
→ With not enough strong DC power, pump only use AC power
- LED screen can show following running status:
On/Off, Input Power & Voltage & Current, Pump Speed(rpm)
- Remarks: CN400 only provided on request.

Features

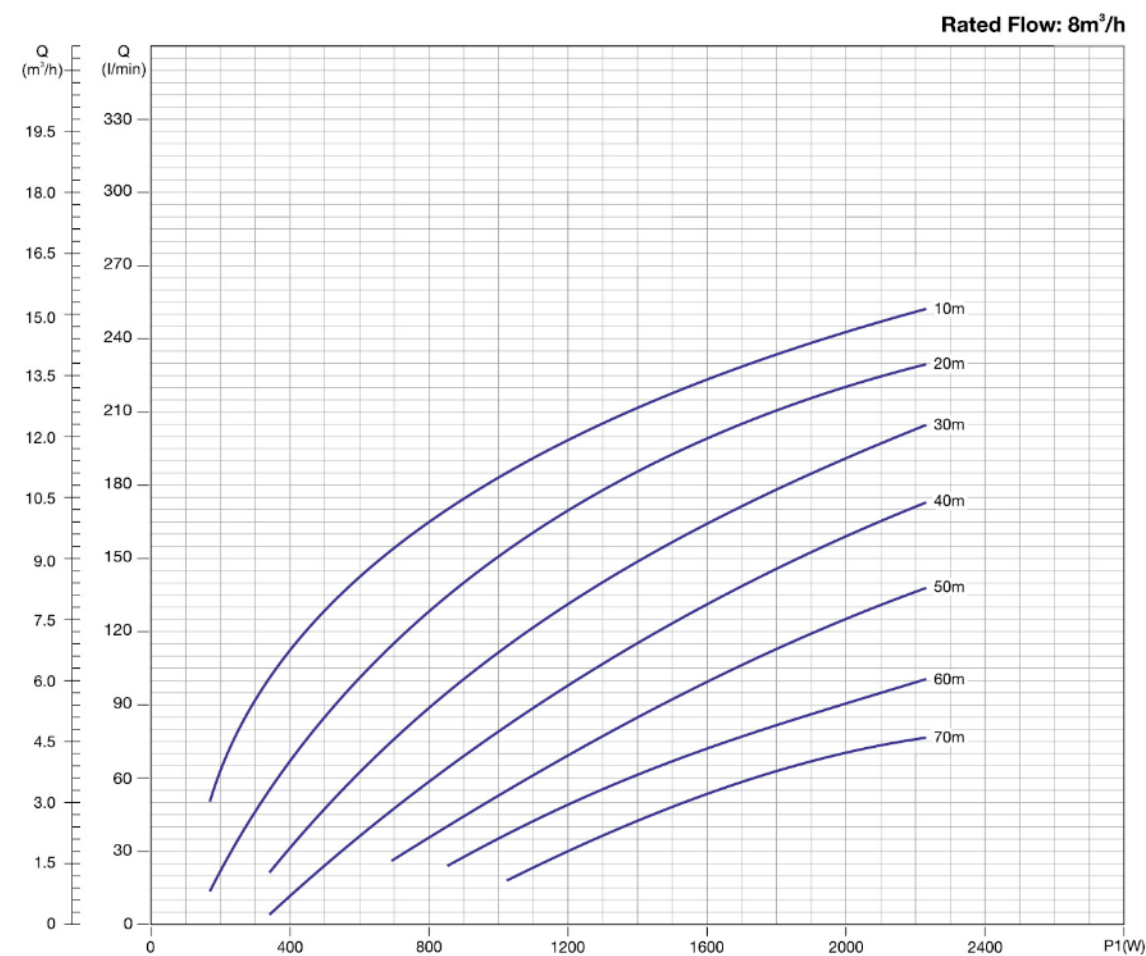
- IP55 Protection class
- 2 Float switch available
- Thickened cast aluminum case
- GPRS remote control function available on request
- Large inner wiring space very easy installation

Wiring Diagram

- ① With CN400 Controller ② Only AC power supply ③ Only DC Power supply



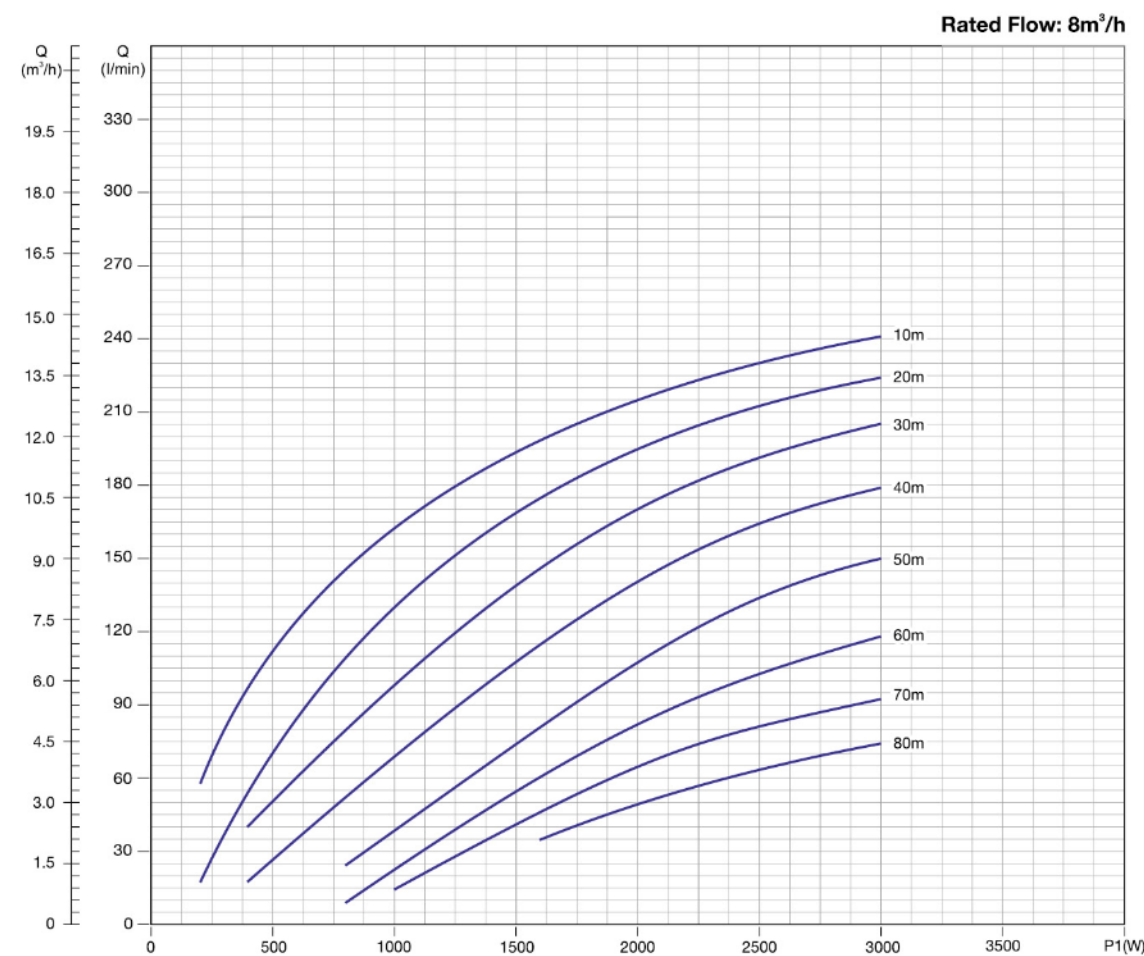
4LPS8/7



Technical Data

Model		Input Power (W)										
4LPS8/7		200	400	800	1000	1200	1600	1800	2000	2200	2400	2600
		Q(m³/h)										
H(m)	10	3.06	6.12	9.12	10.5	11.04	12.66	13.26	13.74	14.16	14.64	15.12
	20	0.84	2.88	6.72	8.1	8.94	10.98	11.34	12.18	12.72	13.14	13.74
	30	/	1.26	4.08	5.58	6.9	8.58	9.42	10.26	10.98	11.64	12.24
	40	/	0.24	2.46	3.54	4.44	6.24	7.44	8.22	9.12	9.66	10.32
	50	/	/	1.56	2.4	3.06	4.56	5.22	6.24	6.6	7.32	8.22
	60	/	/	/	1.44	2.22	3.48	3.96	4.32	5.04	5.46	5.94
	70	/	/	/	/	1.08	2.4	2.94	3.48	3.96	4.38	4.56
Rated Power		2.5 HP			Outlet		2"		MOTOR 1~60Hz Automatic adjustment			
Max. Input Power		2.8 KW			Pump size		4"					
DC Voltage range		60-400 V			Max. head		80 m					
AC Voltage range		1×60-300V , 50/60Hz			Max. flow		16.5 m³/h					

4LPS8/8



Technical Data

Model		Input Power (W)										
4LPS8/8		200	400	800	1000	1600	2000	2200	2400	2600	2800	3000
		Q(m³/h)										
H(m)	10	3.42	5.94	8.82	9.72	11.88	12.6	13.14	13.44	13.8	14.1	14.46
	20	1.02	3.06	6.6	7.8	10.62	11.34	11.88	12.24	12.78	13.02	13.44
	30	/	2.46	3.72	5.22	8.76	9.72	10.38	11.1	11.52	11.82	12.3
	40	/	1.02	2.4	3.36	6.78	7.74	8.4	8.94	9.66	10.2	10.74
	50	/	/	1.5	2.28	4.68	5.82	6.6	7.32	8.04	8.58	9
	60	/	/	0.54	1.5	3.6	4.62	5.22	5.7	6.18	6.54	7.02
	70	/	/	/	0.84	2.7	3.72	4.26	4.62	4.92	5.22	5.52
	80	/	/	/	/	2.04	2.82	3.24	3.6	3.9	4.14	4.38

Rated Power	3.0 HP	Outlet	2"	MOTOR 1-60Hz Automatic adjustment
Max. Input Power	3.0 KW	Pump size	4"	
DC Voltage range	60-400 V	Max. head	90 m	
AC Voltage range	1×60-300V , 50/60Hz	Max. flow	15.3 m³/h	