



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

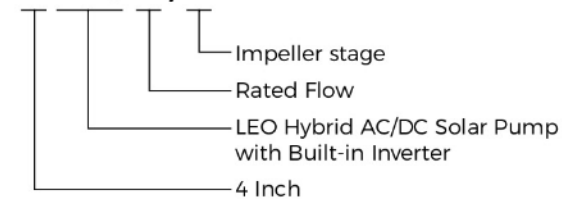
- AC Voltage Range: 1-Phase, 60~300V AC, 50~60Hz
- DC Voltage Range: 60 ~ 400V
- Solar Panel Open Circuit Voltage (VOC): 60 ~ 410V (Without CN400)
- Solar Panel Open Circuit Voltage (VOC): 95 ~ 410V (With CN400)

Input Power Range

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

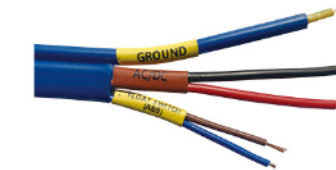
Identification Codes

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

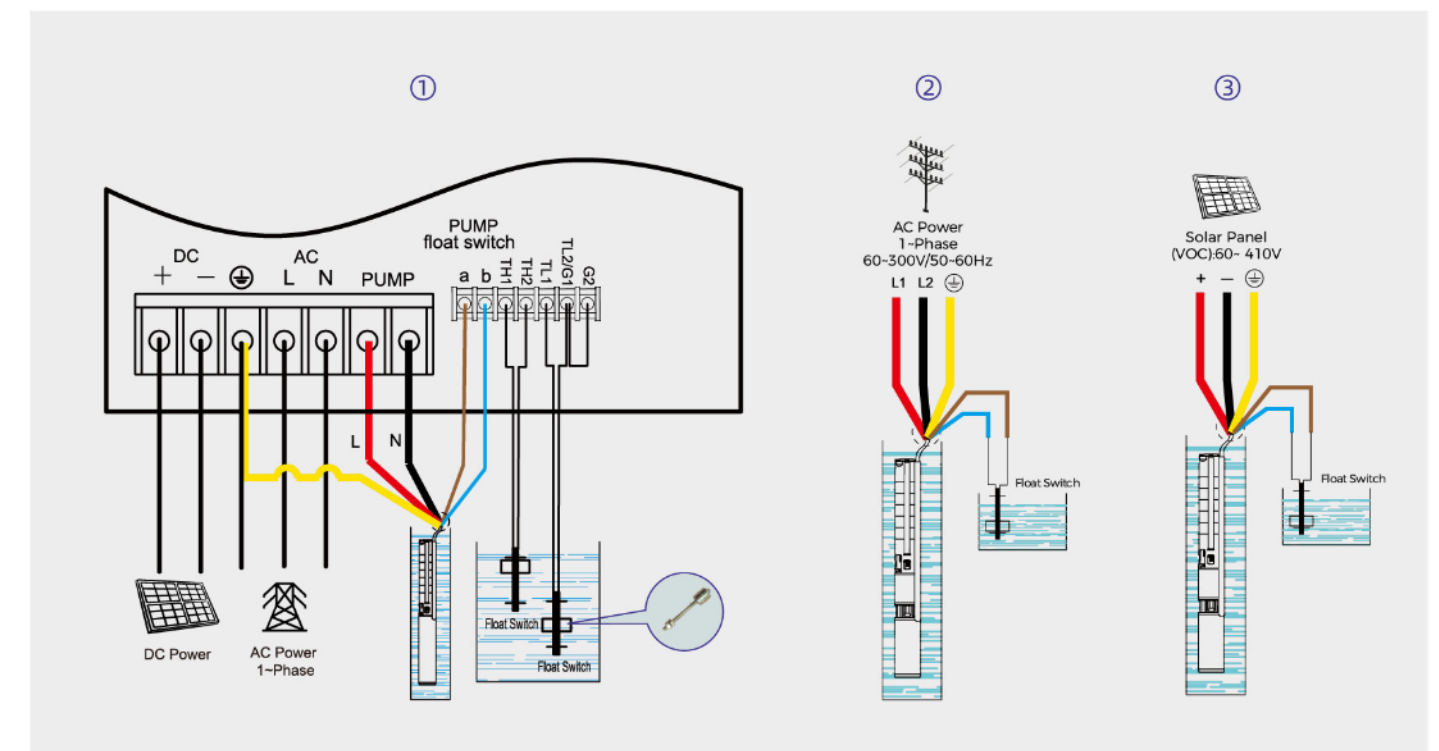
- Auto Switch between AC and DC power supply. (Without CN400 must switch power supply between AC and DC manually)
- Mode setting ① Only DC Mode ② Only AC Mode ③ Auto Mode
On Auto Mode:
→ With enough strong DC power, pump only use DC power
→ With not enough strong DC power, pump only use AC power
- LED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

Features

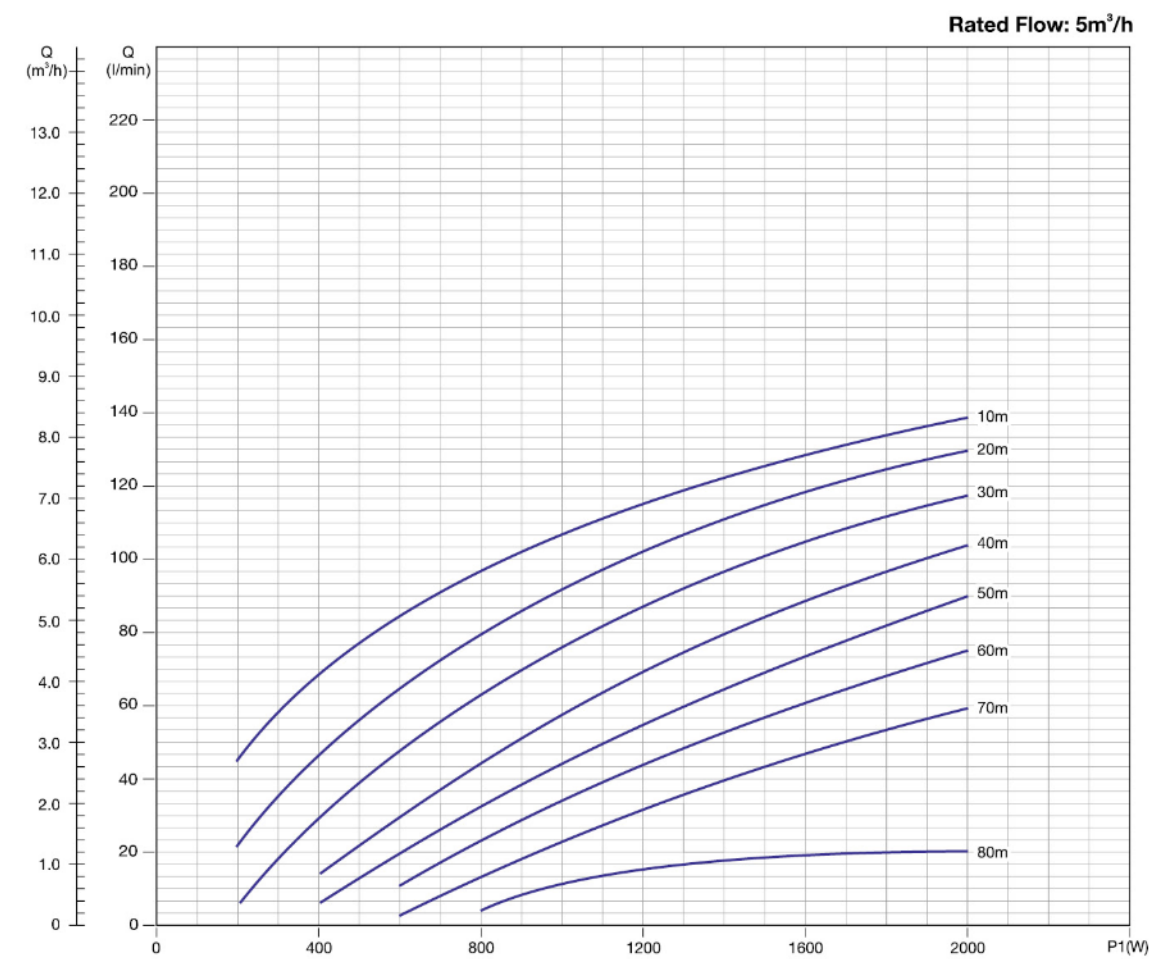
- IP55 Protection class
- 2 Float switch available
- Thickened cast aluminum case
- GPRS remote control function available on request
- Large inner wiring space very easy installation

Wiring Diagram

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



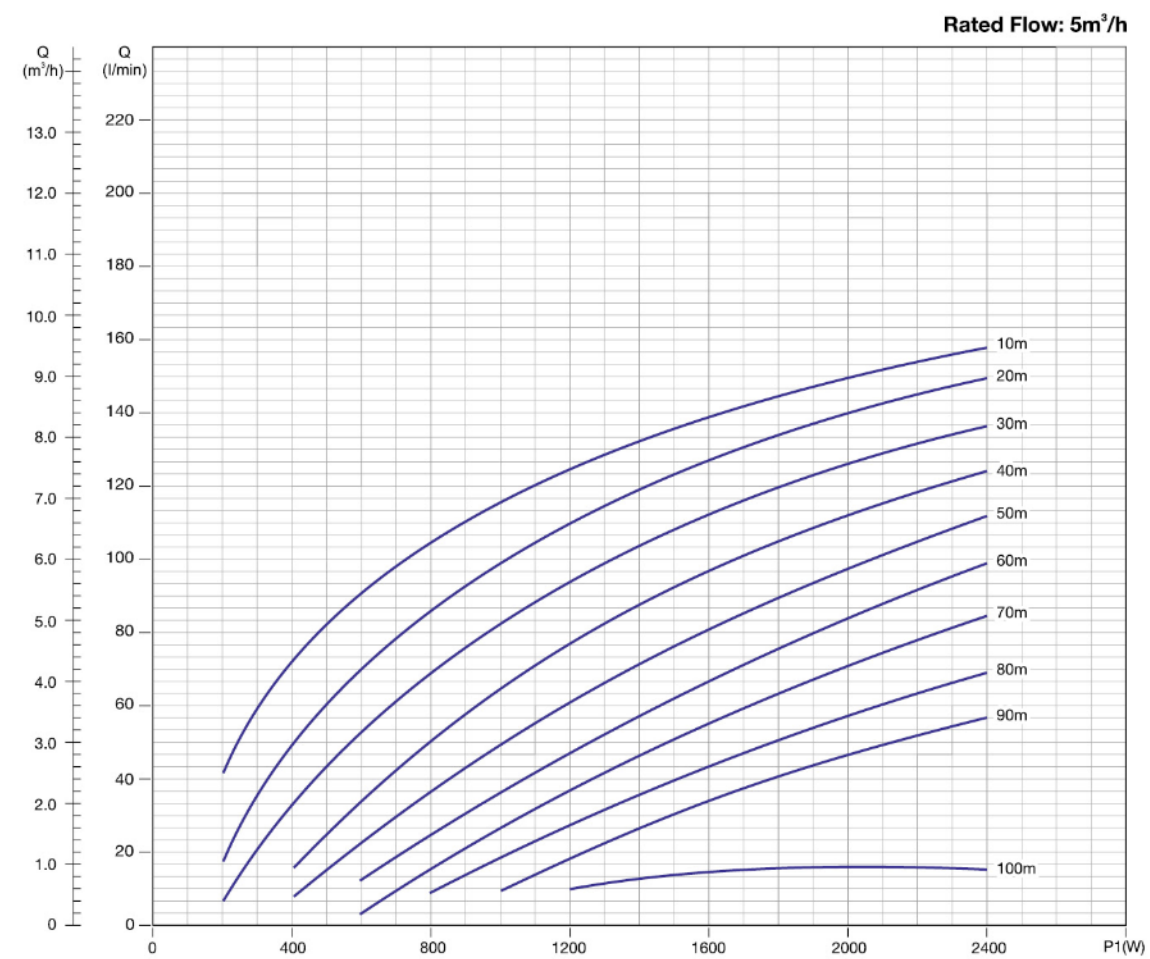
4LPS5/8



Technical Data

Model		Input Power (W)									
4LPS5/8		200	400	600	800	1000	1200	1400	1600	1800	2000
		Q(m³/h)									
H(m)	10	3.06	4.56	5.7	6.6	7.32	7.68	8.22	8.64	9	9.36
	20	1.44	2.94	4.38	5.52	6.18	6.9	7.32	7.8	8.34	8.76
	30	0.36	1.86	3	4.2	4.98	5.82	6.42	6.9	7.5	7.92
	40	/	0.96	1.86	3.06	3.78	4.62	5.28	5.94	6.54	7.02
	50	/	0.42	1.26	2.1	2.7	3.36	4.2	4.86	5.52	6.06
	60	/	/	0.72	1.5	2.1	2.7	3.24	3.78	4.56	5.1
	70	/	/	0.18	0.9	1.44	2.1	2.58	3.12	3.66	3.96
	80	/	/	/	0.24	0.9	1.26	1.26	1.26	1.32	1.38
Rated Power		1.5 HP			Outlet			1.5"			MOTOR 1-60Hz Automatic adjustment
Max. Input Power		2.6 KW			Pump size			4"			
DC Voltage range		60-400 V			Max. head			90 m			
AC Voltage range		1×60-300V , 50/60Hz			Max. flow			10.2 m³/h			

4LPS5/10



Technical Data

Model		Input Power (W)										
4LPS5/10		200	400	600	800	1000	1200	1600	1800	2000	2200	2400
		Q(m³/h)										
H(m)	10	2.46	4.26	5.46	6.24	6.84	7.32	8.28	8.52	8.82	9.18	9.42
	20	1.08	2.88	4.26	5.16	5.94	6.66	7.44	7.92	8.28	8.58	8.94
	30	0.42	1.86	2.88	3.96	4.98	5.64	6.66	7.14	7.62	7.86	8.22
	40	/	0.96	2.1	2.88	3.84	4.56	5.76	6.3	6.72	7.08	7.5
	50	/	0.48	1.32	2.04	2.7	3.6	4.8	5.4	5.94	6.3	6.72
	60	/	/	0.78	1.5	2.16	2.7	3.9	4.5	4.92	5.4	5.94
	70	/	/	0.24	0.96	1.56	2.16	3.18	3.54	4.02	4.56	5.1
	80	/	/	/	0.54	1.08	1.68	2.58	3	3.42	3.72	4.2
	90	/	/	/	/	0.6	1.08	2.04	2.4	2.76	3.06	3.42
	100	/	/	/	/	/	0.6	0.84	0.84	0.9	0.9	0.9
Rated Power		2.0 HP			Outlet			1.5"			MOTOR 1-60Hz Automatic adjustment	
Max. Input Power		3.0 KW			Pump size			4"				
DC Voltage range		60-400 V			Max. head			112 m				
AC Voltage range		1×60-300V , 50/60Hz			Max. flow			10.2 m³/h				