



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

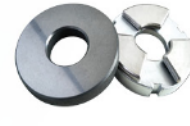
- AISI304 Impeller & Diffuser & Pump shaft
- High precision / strength graphite bearing
- 100% Pure copper winding



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

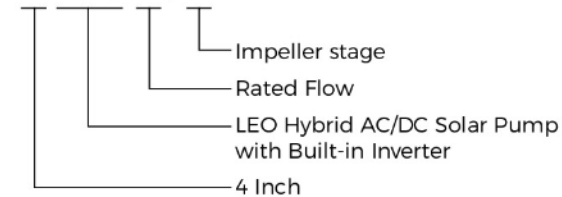
- AC Voltage Range: 1-Phase, 60~300V AC, 50~60Hz
- DC Voltage Range: 60 ~ 400V
- Solar Panel Open Circuit Voltage (VOC): 60 ~ 410V (Without CN400)
- Solar Panel Open Circuit Voltage (VOC): 95 ~ 410V (With CN400)

Input Power Range

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

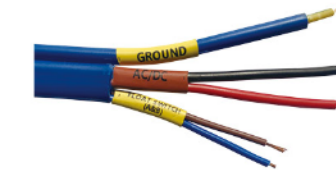
Identification Codes

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

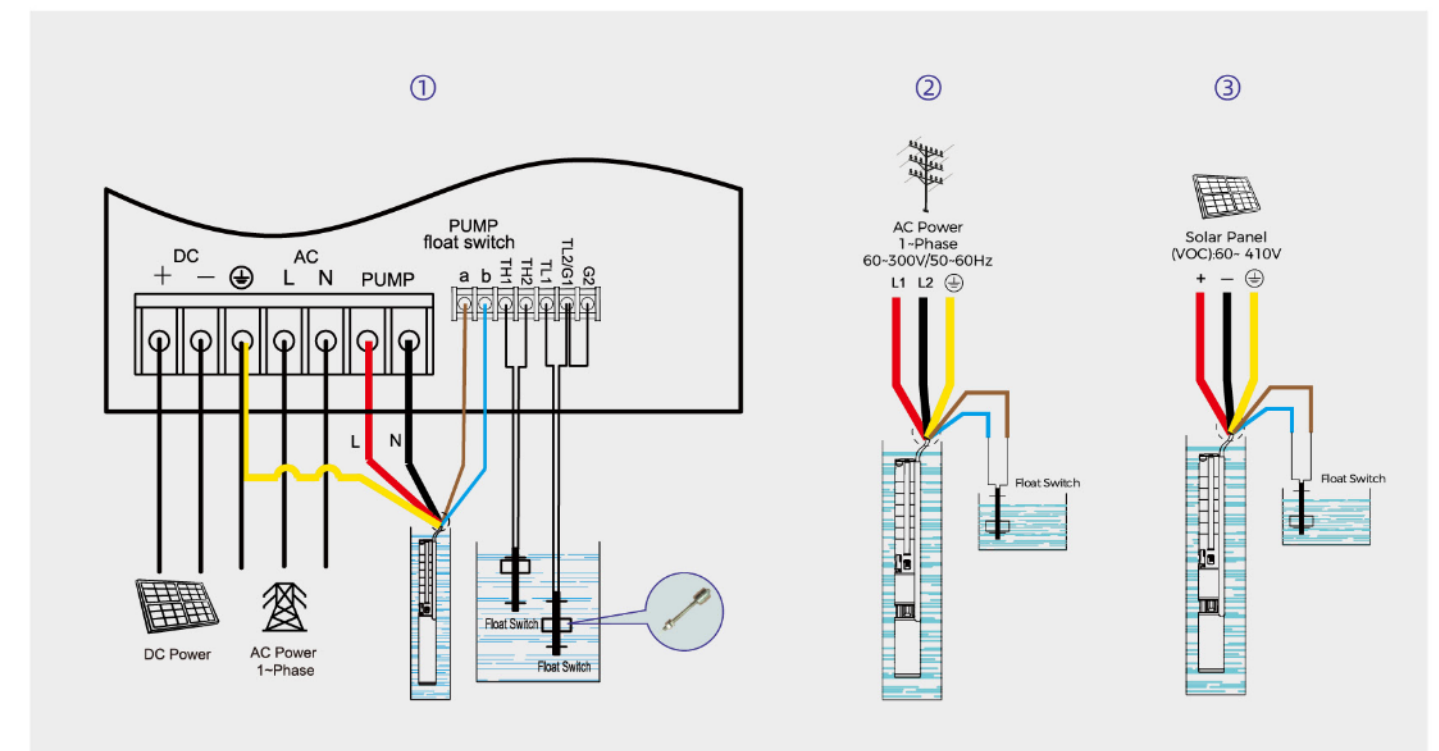
- Auto Switch between AC and DC power supply. (Without CN400 must switch power supply between AC and DC manually)
- Mode setting ① Only DC Mode ② Only AC Mode ③ Auto Mode
On Auto Mode:
→ With enough strong DC power, pump only use DC power
→ With not enough strong DC power, pump only use AC power
- LED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

Features

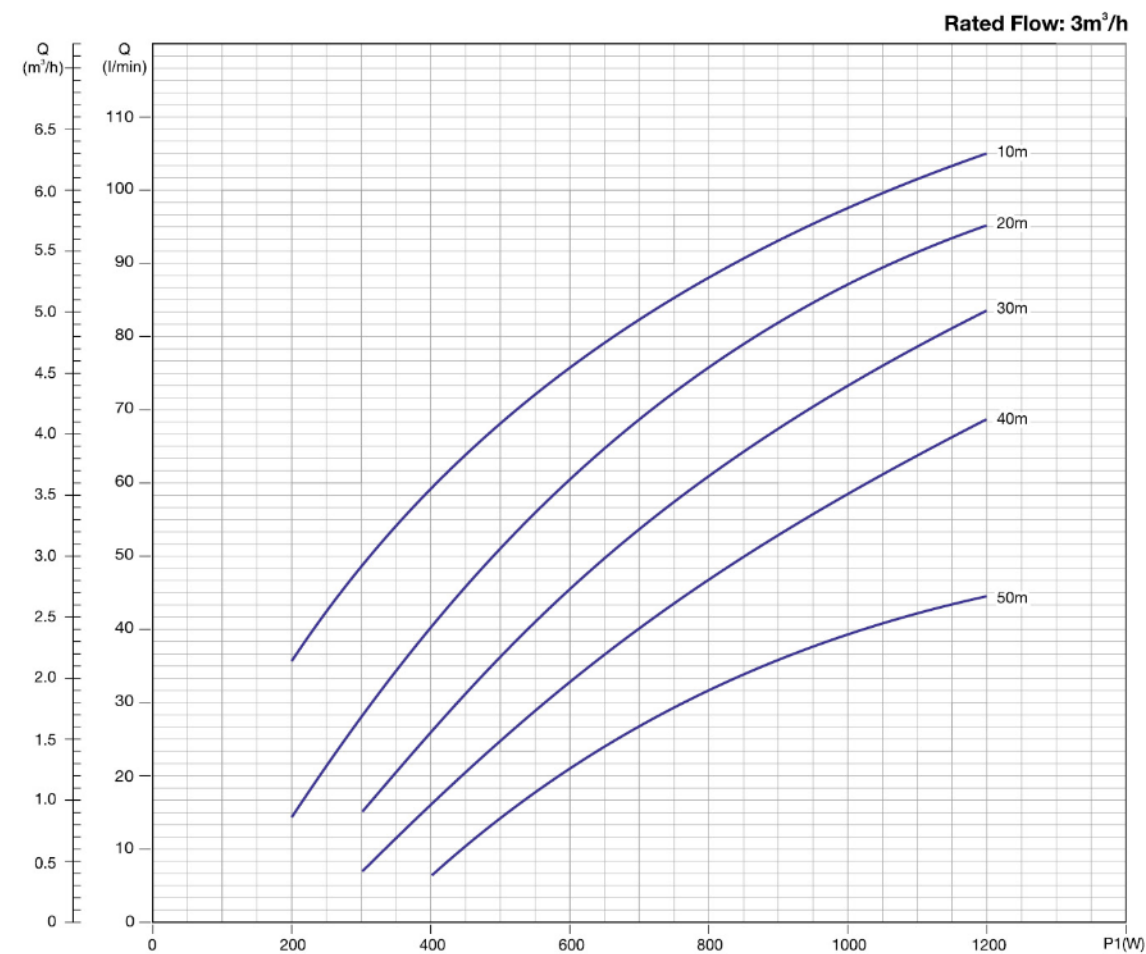
- IP55 Protection class
- 2 Float switch available
- Thickened cast aluminum case
- GPRS remote control function available on request
- Large inner wiring space very easy installation

Wiring Diagram

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



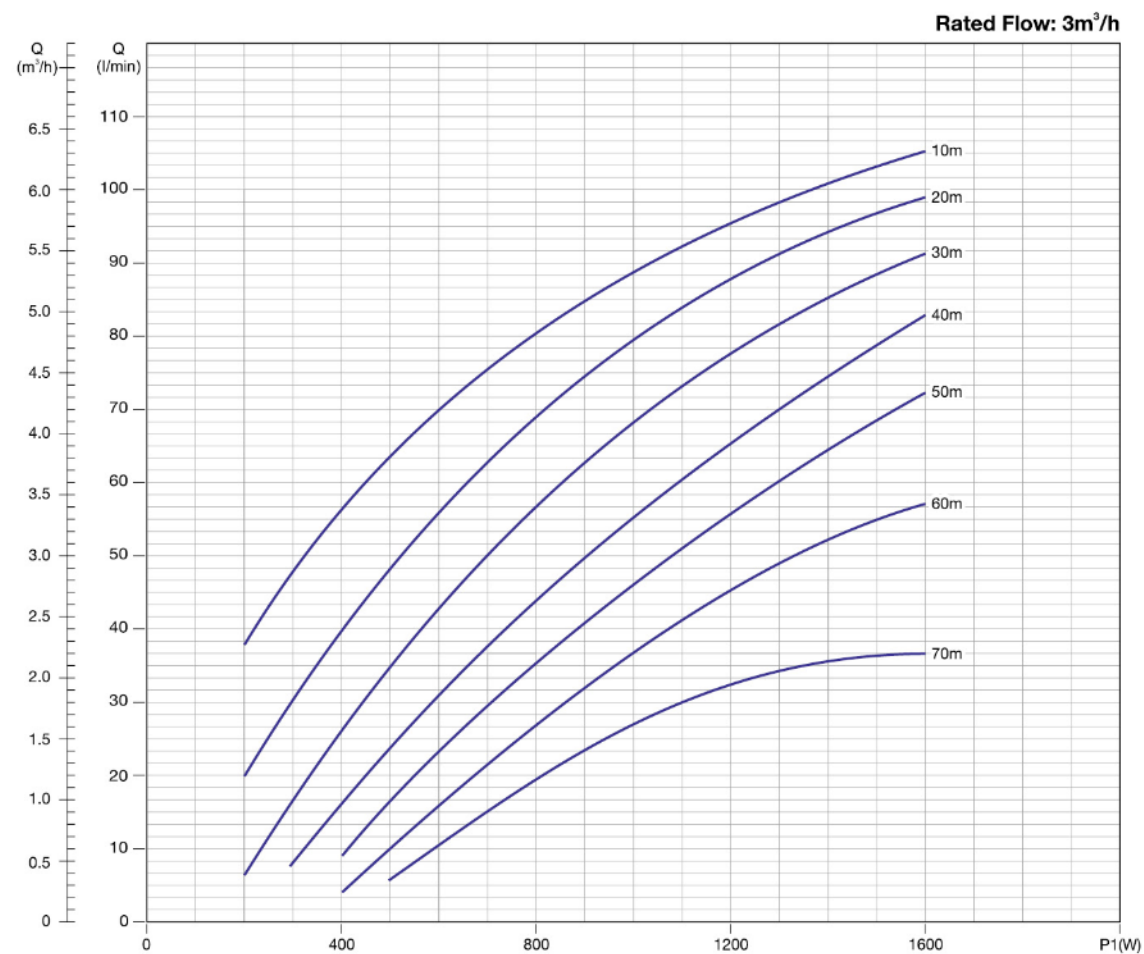
4LPS3/6



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				

4LPS3/8



Technical Data

Model		Input Power (W)											
4LPS3/8		200	300	400	500	600	700	800	900	1000	1200	1400	1600
		Q(m³/h)											
H(m)	10	2.28	2.82	3.36	3.96	4.2	4.8	5.04	5.28	5.58	5.76	6.06	6.3
	20	1.2	1.74	2.46	3.18	3.42	4.14	4.44	4.68	4.98	5.22	5.64	5.94
	30	0.42	1.14	1.62	2.28	2.52	3.36	3.72	4.02	4.38	4.62	5.04	5.46
	40	/	0.48	1.14	1.68	1.92	2.64	2.94	3.36	3.72	3.96	4.44	4.98
	50	/	/	0.6	1.08	1.32	2.1	2.4	2.7	3	3.3	3.78	4.38
	60	/	/	0.24	0.78	0.96	1.5	1.8	2.04	2.34	2.76	3.12	3.42
	70	/	/	/	0.36	0.54	1.14	1.44	1.68	1.8	1.98	2.16	2.22
Rated Power		1.5 HP			Outlet			1.25"			MOTOR 1~60Hz Automatic adjustment		
Max. Input Power		1.6 KW			Pump size			4"					
DC Voltage range		60-400 V			Max. head			82 m					
AC Voltage range		1×60-300V , 50/60Hz			Max. flow			6.6 m³/h					