

SP INVERTER SERIES

Solar Pump Inverter



Asynchronous Motors only

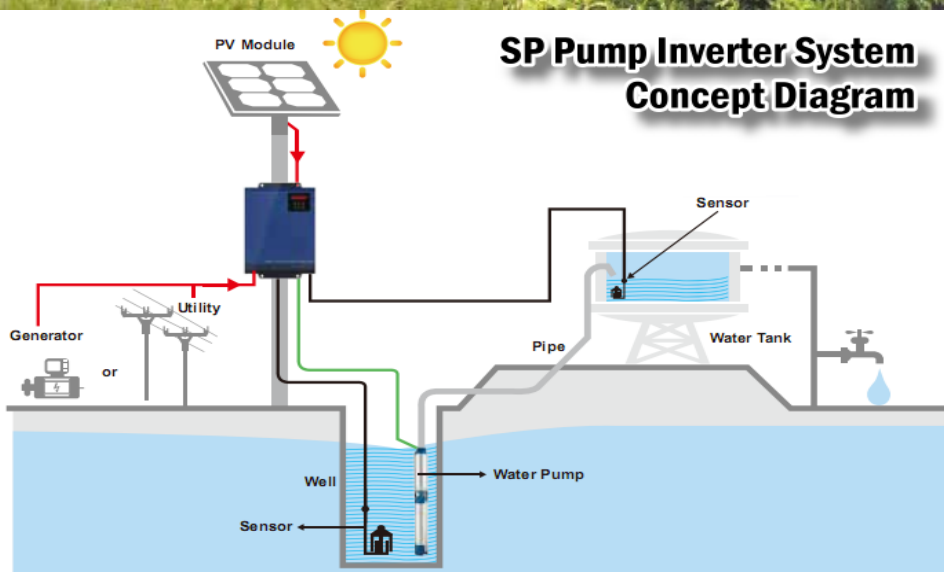
MAIN FEATURES

- Single or 3-phase Solar Pump Inverter
- Batteryless design
- Built in MPPT design
- High PV Input up to Voc 800V
- 2.2KW, 7.5KW, 11KW or 15KW available
- Compatible with IEC standard 1P (2.2K LS only) or 3P asynchronous motors only*
- Peak 97% efficiency
- 50Hz or 60Hz supported (programmable)
- AC Input for backup during low or no sun**
- Auto-restart feature after PV reconnect or AC return
- Automatic derating at high temperature
- Soft start feature available
- Phase lost, dry pumping, motor locked, weak sunlight, over-voltage, under-voltage, over-current, surge, over-temp and short circuit protection
- RS232 / RS485 monitoring feature
- Large LCD / LED display

NOTE:

*Due to different software controls, synchronous type motors are NOT supported.

**AC input backup feature is standard on 2.2K LS model only; for 3-phase models (2.2K, 7.5K, 11K, 15K), AC input must NOT be used at the same time as PV or else damage may result.



SP Pump Inverter System Concept Diagram

SP Series	SP-2.2K LS	SP-2.2K	SP-7.5K	SP-11K	SP-15K
INPUT POWER					
Max PV Array	3500W(3P) / 7000W(1P)	3.5KW	12KW	17.6KW	24KW
Max PV Input Voc	450VDC		800VDC		
MPPT Range	120~420VDC		250 - 780VDC		
Startup Voltage	120VDC		250VDC		
Recommend PV Input Voltage	>330V	>560v@380v, >585v@400v, >606v@415v, >642v@440v			
AC Input Backup	Standard		Optional		
AC Input Power	4KW	4KW	11KW	16.5KW	21KW
AC Input Voltage	220,230,240VAC (Single Phase)		380, 400, 415, 440VAC (3-phase)		
AC Input Max Current	18.18A	5.8A	20.5A	27A	32A
OUTPUT POWER					
Power Phase	Single or 3 Phase		3 Phase only		
Output Voltage	220,230,240VAC (1P or 3P)		380, 400, 415, 440VAC (3 phase)		
Max Output Power	2.2KW	2.2KW	7.5KW	11KW	15KW
Supported Pump Size	0.75~3 HP	0.75~3 HP	3~10 HP	10~15 HP	15~20 HP
Peak Efficiency	97%				
Max Output Current	14A (1-Phase), 10A (3-Phase)	5A	15A	22A	29A
Motor Type	Single Phase or 3-Phase		3-Phase asynchronous motor only		
Output Frequency	50Hz / 60Hz, adjustable				
ENVIRONMENTAL / MECHANICAL SPECIFICATIONS					
Protections	Over/Under-Voltage, Over Current, Over Temp, Short Circuit, Surge				
Communication	RS-232, RS-485				
Operating Temp.	-20°C~ 45°C (100% load, power derate >45°C)				
Operating Humidity	0~95%RH Non-Condensing				
Dimension	110*230*340mm			105*220*320mm	
Weight/Packing	5.0kg	5.5kg	6Kg	6.5Kg	6.0Kg

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