



Shenzhen Hybridon Power Co.,Ltd.

## IP series Power Frequency Pure Sine Wave Inverter



- Soft start capability for starting heavy loads
- New power factor corrected (PFC) charging
- Available in 1000 and 3000 watt models Utility grade, sine wave power
- Durable construction for long life under extreme environmental conditions
- 70 amp automatic three-stage battery charger (bulk, absorption, and float)
- battery equalization with remote temperature sensor for increased performance
- Low idle current (less than 1 watt) conserves energy when no loads are present
- Built-in starting control circuits for two- and three-wire generator starting systems
- New digital display shows kilowatts (kW) when inverting and amps (A) when charging
- Better thermal performance allows full output power to 50°C (122°F) without de-rating
- High surge capacity starts more difficult loads and handles overload conditions reliably
- Simplified controls with a snap-on cover that protects settings from being accidentally changed

### Specification

MODEL	IP1K	IP1.5K	IP2K	IP3K	IP4K	IP5K	IP6K
Rated Output Power (W)	1000	1500	2000	3000	4000	5000	6000
<b>LINE MODE SPECIFICATIONS</b>							
Input Voltage	230Vac(120VAC selectable)						
Input Frequency	50Hz/60Hz (Auto detection)						
Output Voltage Waveform	Pure sine wave						
Over-Load Protection(SMPSload)	Circuit breaker						
Output Short Circuit Protection	Circuit breaker						
Efficiency (Line Mode)	>95%						
Auto Transfer Relay	30A				40A		
Transfer Time	10ms (typical)						
Pass through without Battery	Yes						
Max Bypass Overload Current	30A						
<b>INVERT MODE SPECIFICATIONS</b>							
Output Voltage Waveform	Pure sine wave						
Power Factor	1						
Output Voltage (V)	230Vac/120 ±10%					230Vac±10%	
Output Frequency (Hz)	50/60Hz ± 0.3Hz						
Auto Tracking Main Frequency (Hz)	50Hz @ 48-54Hz; 60Hz @ 58-64Hz						
Output Voltage Regulation	± 10% rms						
Efficiency	> 80%						

Over-Load Protection(SMPSload)	(110%<load (125%<load Load>150% ±10%; Fault (shutdown output) after 20s</load</load						
Surge Rating	3000VA	4500VA	6000VA	9000VA	12000VA	15000VA	18000 VA
Capable Of Starting Electric Motor	1 HP			2 HP		3 HP	
Inverter Breaker Size	10A	30A		40A			
DC Input Voltage	12V/24V	12V/24V	12V/24V	12V/24V/48V	24V/48V	24V/48V	24V/48V
Min DC Start Voltage	11V/22V/43V						
Low Battery Alarm	10.5Vdc ± 0.3Vdc for 12V battery;						
	21.0Vdc ± 0.6Vdc for 24V battery;						
	42.0Vdc ± 0.6Vdc for 48V battery						
Low DC input Shut-down	10.0Vdc ± 0.3Vdc for 12V battery;						
	20.0vdc± 0.6Vdc for 24V battery;						
	40.0Vdc± 0.6Vdc for 48V battery						
High DC input Alarm & Fault	16Vdc ± 0.3Vdc for 12V battery;						
	32Vdc ± 0.6Vdc for 24V battery;						
	64Vdc ± 0.6Vdc for 48V battery						
High DC input Recovery	15.5Vdc ± 0.3Vdc for 12V battery;						
	31.0Vdc ± 0.6Vdc for 24V battery;						
	62.0Vdc ± 0.6Vdc for 48V battery						
Power saver	Load ≤25W						
<b>CHARGE MODE SPECIFICATIONS</b>							
Input Voltage	230Vac / 1200Vac						
Input Voltage Range	155-265Vac / 96-127Vac						
Output Voltage	Same as input voltage						
Multi Stage Smart Charger (Amp)	35A/20A	65A	65A/40A	65A/45A/25A	65A/35A	65A/40A	65A/50A
Charge Current Adjustable Gear	25%, 50%, 75%, 100%						
Charger Short Circuit Protection	Circuit breaker						
Over Charge Protection	Bat. V ≥ 15.7Vdc/31.4Vdc/62.8Vdc, beeps 0.5s every 1s & fault after 60s						
<b>GENERAL SPECIFICATIONS</b>							
Safety Certification	CE, Soncap, ISO9001						
Operating Temperature Range	0°C to 40°C						
Storage temperature	15°C below zero to 60°C						
Operation humidity	5% to 95%						
Audible Noise	60dB max						
Cooling	Forced air, variable speed fan						
Net Weight (KG)	16		21	24	35	44	45
Gross Weight (KG)	19		24	28	39.2	48	49
Inverter Size	1000W/1500W/2000W/3000W: 423X185X160MM						
	4000W/5000W/6000W: 600X185X155MM						

Carton Box Size	1000W/1500W/2000W/3000W: 570*315*300MM
	4000W/5000W/6000W: 755*319*288MM
Wooden Case Size	1000W/1500W/2000W/3000W: 614X362X359MM
	4000W/5000W/6000W: 799X362X359MM