IPower-Plus Series

Pure sine wave inverter

Overview

IPower-Plus is a high-frequency pure sine wave inverter that can convert 12/24/48VDC to 220/230V AC (or 110V/120V AC) and power the AC loads. It is designed according to the international standard with higher quality, reliability, and safety. Ranging from 500W to 5000W, Ipower-Plus is compatible with lithium-ion battery perfectly and suits any situation of DC to AC, such as RVs, boats, residentials, and places where require high quality of electrical power.

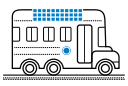
Features

- Pure sine wave output
- Input to output electrical isolation
- Digital dual closed-loop control of voltage and current
- Input surge current suppression for lithium battery systems
- Output power factor up to 1
- Simple system wiring & 180 degrees rotating LCD
- Input Protection: Reverse polarity, Low-voltage, Over-voltage
- Output Protection: Overload, Short circuit, Overheating
- Phone and PC remote control through RS485 port
- Extra external switch port
- Safety (EN/IEC62109) & EMC approved by international standards









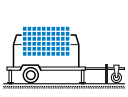
Solar Car



Solar Home



Solar Boat



Solar Power Generator

Technical Specifications

Parameters	IP500-12-Plus	IP500-22-Plus	IP1000-12-Plus	IP1000-22-Plus	IP1500-12-Plus	IP1500-22-Plus	IP1500-42-Plus
Continuous output power	500W	500W	1000W	1000W	1500W	1500W	1500W
Surge power	1000W@5S	1000W@5S	2000W@5S	2000W@5S	3000W@5S	3000W@5S	3000W@5S
Surge current when power on	< 50A	< 50A	< 100A	< 100A	< 100A	< 100A	< 50A
Output voltage	220VAC(±3%); 230VAC(-7%~+3%)						
Output frequency	50/60Hz±0.2%						
Output wave	Pure sine wave						
Output distortion THD	THD≤3%(Resistive load)						
Load power factor	0.2-1(Load VA ≤ Continuous output power)						
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	10.8~16.0VDC	21.6~32VDC	10.8~16.0VDC	21.6~32.0VDC	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC
Rated output efficiency	> 89.5%	> 91.5%	> 89%	> 90%	> 89%	> 90%	> 92.5%
Max. output efficiency	> 90% (40% loads)	> 92% (40% loads)	> 93% (40% loads)	> 93% (30% loads)	> 93%(30% loads)	> 93.5%(30% loads)	> 94%(30% loads)
No-load current	< 0.9A	< 0.6A	< 1.1A	< 0.9A	< 1.2A	< 0.9A	< 0.5A
USB output	5VDC/Max.1A	5VDC/Max.1A	5VDC/Max.1A	5VDC/Max.1A	5VDC/Max.1A	5VDC/Max.1A	/
RS485 com. port	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA	5VDC/200mA
Dimension(LxWxH)	286×163.5×78mm	286×163.5×78mm	371×231.5×123mm	371×231.5×123mm	387×231.5×123mm	387×231.5×123mm	387×231.5×123mm
Mounting dimension	Φ5mm	Φ5mm	Φ6mm	Φ6mm	Φ6mm	Φ6mm	Φ6mm
Net Weight	2.2kg	2.2kg	5.8kg	5kg	6kg	6kg	6kg
Operating temperature range	`-20℃~+60℃(Refer to the derating curve)						
Relative humidity	< 95%(N.C.)						
Enclosure	IP20						

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Technical Specifications

Parameters	IP2000-12 -Plus	IP2000-22 -Plus	IP2000-42 -Plus	IP3000-12 -Plus	IP3000-22 -Plus	IP3000-42 -Plus	IP4000-42 -Plus	IP5000-42- Plus
Continuous output power	2000W	2000W	2000W	3000W	3000W	3000W	4000W	5000W
Surge power	4000W@5S	4000W@5S	4000W@5S	6000W@5S	6000W@5S	6000W@5S	8000W@5S	8000W@5S
Surge current when power on	< 100A	< 100A	< 50A	< 100A	< 100A	< 65A	< 65A	< 65A
Output voltage	220VAC(±3%); 230VAC(-7%~+3%)							
Output frequency	50/60Hz±0.2%							
Output wave	Pure sine wave							
Output distortion THD	THD≤3%(Resistive load)							
Load power factor	0.2-1(Load VA ≤ Continuous output power)							
Rated input voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC	48VDC	48VDC
Input voltage range	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC	10.8~16.0VDC	21.6 ~ 32.0VDC	43.2~64.0VDC	43.2~64VDC	43.2~64.0VDC
Rated output efficiency	> 88%	> 91%	> 92.5%	> 87%	> 90%	> 92.5%	> 91%	> 91%
Max. output efficiency	> 94% (30% loads)	> 93% (30% loads)	> 94.5% (30% loads)	> 94% (30% loads)	> 94% (30% loads)	> 94.5% (30% loads)	> 94% (30% loads)	> 94% (30% loads)
No-load current	< 1.2A	< 1.0A	< 0.5A	< 1.6A	< 1A	< 0.5A	< 0.6A	< 0.8A
USB output	5VDC/Max.1A	5VDC/ Max.1A	/	5VDC/Max.1A	5VDC/Max.1A	/	/	/
RS485 com. port	5VDC/ 200mA	5VDC/ 200mA	5VDC/ 200mA	5VDC/ 200mA	5VDC/ 200mA	5VDC/ 200mA	5VDC/ 200mA	5VDC/ 200mA
Dimension(LxWxH)	420×231.5×123 mm	421×231.5×123 mm	421×231.5×123 mm	557×231.5×123 mm	521×274×148 mm	491×231.5×123 mm	516×231.5×123 mm	531×231.5×123 mm
Mounting dimension	395×145mm	395×145mm	395×145mm	532×145mm	495×145mm	465×145mm	490×145mm	505×145mm
Net Weight	8kg	6.5kg	6.5kg	10.5kg	8kg	7kg	8kg	9kg
Operating temperature range	`-20℃~+60℃(Refer to the derating curve)							
Relative humidity	< 95%(N.C.)							
Enclosure	IP20							

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