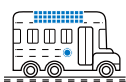


Overview

IPower-Plus is a high-frequency pure sine wave inverter that can convert 12/24/48VDC to 220/230/240VAC (or 100/110/120VAC) and power the AC loads. It is designed according to the international standard with higher quality, reliability, and safety. Ranging from 350W 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

Parameters	IP350-11-Plus	IP350-21-Plus	IP500-11-Plus	IP500-21-Plus	IP1000-11-Plus	IP1000-21-Plus	IP1000-41-Plus
Continuous output power	350W@35°C@ Rated input voltage		500W@35°C@35°C@ Rated input voltage		1000W@35°C@ Rated input voltage		
Surge power	700W@5S		1000W@5S		2000W@5S		
Surge current when power on	< 30A		< 50A		< 100A		< 35A
Output voltage	100VAC/110VAC (±3%); 120VAC (-7%~+3%)				100VAC/110VAC (±3%); 120VAC (-7%~+3%)		100VAC/110VAC/120VAC(±3%)
Output frequency	50/60Hz ± 0.2%				50/60Hz ± 0.2%		
Output wave	Pure Sine Wave						
Output distortion THD	THD ≤ 4% (Resistive load)	THD ≤ 3% (Resistive load)	THD ≤ 4% (Resistive load)		THD ≤ 4% (Resistive load)	THD ≤ 3% (Resistive load)	THD ≤ 3% (Resistive load)
Load power factor	0.2 ~ 1 (Load power ≤ Continuous output power)				0.2~1(Load power ≤ 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 ~ 32VDC	10.8~16.0VDC	21.6~32.0VDC	43.2 ~ 64.0VDC
Rated output efficiency ^①	> 87.0%	> 90.0%	> 87.5%	> 90.0%	> 87.0%	> 90.0%	> 91.0%
Max. output efficiency ^②	> 89.0% (70% loads)	> 90.5% (70% loads)	> 90.0% (40% loads)	> 91.0% (40% loads)	> 92.0% (40% loads)	> 92.5% (30% loads)	> 92.5% (40% loads)
Idle current	< 0.15A	< 0.10A	< 0.15A	< 0.10A	< 0.2A	< 0.15A	< 0.1A
No-load current	< 0.8A	< 0.4A	< 0.8A	< 0.5A	< 0.8A	< 0.6A	< 0.5A
USB output	5VDC/Max.1A				5VDC/Max.1A		--
RS485 com. port	5VDC/200mA				5VDC/200mA		
Mechanical parameters							
Input terminal	M6		M6		M6	M6	M6
Dimension (L x W x H)	229 × 163.5 × 75mm (with decorative cover) 229 × 160 × 73mm (without decorative cover)		286 × 163.5 × 78mm (with decorative cover) 286 × 160 × 78mm (without decorative cover)		371 × 231.5 × 123mm	371 × 231.5 × 123mm	332 × 231.5 × 123mm
Mounting size (L x W)	205 × 75mm		262 × 75mm		345 × 145mm	345 × 145mm	306 × 145mm
Mounting hole size	Φ5mm				Φ6mm		
Net Weight	1.47kg		2.00kg		5.15kg	4.86kg	4.36kg

① It is measured in the condition of continuous output power and rated input voltage.

② It means the max. output efficiency when the inverter is connected with different loads under the rated input voltage.

Parameters	IP1500-11-Plus	IP1500-21-Plus	IP1500-41-Plus	IP2000-11-Plus	IP2000-21-Plus	IP2000-41-Plus
Continuous output power	1500W@35°C@ Rated input voltage			2000W@35°C@ Rated input voltage		
Surge power	3000W@5S			4000W@5S		
Surge current when power on	< 100A		< 50A	< 100A	< 100A	< 50A
Output voltage	100VAC/110VAC (±3%); 120VAC (-7%~+3%)			100VAC/110VAC (±3%); 120VAC (-7%~+3%)		
Output frequency	50/60Hz ± 0.2%			50/60Hz ± 0.2%		
Output wave	Pure Sine Wave			Pure Sine Wave		
Output distortion THD	THD ≤ 4% (Resistive load)			THD ≤ 5% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)
Load power factor	0.2~1(Load power ≤ Continuous output power)			0.2 ~ 1 (Load power ≤ Continuous output power)		
Rated input voltage	12VDC	24VDC	48VDC	12VDC	24VDC	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
Rated output efficiency ^①	> 88.0%	> 88.0%	> 90.0%	> 85.0%	> 88.0%	> 88.0%
Max. output efficiency ^②	> 93.0% (30% loads)	> 92.5% (30% loads)	> 92.0% (30% loads)	> 92.0% (30% loads)	> 92.0% (30% loads)	> 93.0% (30% loads)
Idle current	< 0.2A	< 0.15A	< 0.1A	< 0.2A	< 0.15A	< 0.1A
No-load current	< 1.0A	< 0.9A	< 0.5A	< 1.2A	< 0.9A	< 0.5A
USB output	5VDC/Max.1A		---	5VDC/Max.1A	5VDC/ Max.1A	---
RS485 com. port	5VDC/200mA			5VDC/ 200mA		
Mechanical parameters				Mechanical parameters		
Input terminal	M6			M10	M6	M6
Dimension (L x W x H)	387 × 231.5 × 123mm			420 × 231.5 × 123mm	421 × 231.5 × 123mm	421 × 231.5 × 123mm
Mounting size (L x W)	361 × 145mm			395 × 145mm	395 × 145mm	395 × 145mm
Mounting hole size	Φ6mm			Φ6mm	Φ6mm	Φ6mm
Net Weight	5.90kg	5.70kg	5.53kg	7.45kg	6.28kg	6.20kg

① It is measured in the condition of continuous output power and rated input voltage.

② It means the max. output efficiency when the inverter is connected with different loads under the rated input voltage.

Parameters	IP3000-11-Plus	IP3000-21-Plus	IP3000-41-Plus	IP4000-41-Plus
Continuous output power	3000W@35°C@Rated input voltage			4000W@35°C@Rated input voltage
Surge power	4800W@5S	6000W@5S	6000W@5S	8000W@5S
Surge current when power on	< 100A	< 100A	< 65A	< 65A
Output voltage	100VAC/110VAC (±3%); 120VAC (-7%~+3%)			
Output frequency	50/60Hz ± 0.2%			
Output wave	Pure Sine Wave			
Output distortion THD	THD ≤ 4% (Resistive load)	THD ≤ 5% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)
Load power factor	0.2 ~ 1 (Load power ≤ Continuous output power)			
Rated input voltage	12VDC	24VDC	48VDC	48VDC
Input voltage range	10.8 ~ 16.0VDC	21.6 ~ 32.0VDC	43.2 ~ 64.0VDC	43.2 ~ 64VDC
Rated output efficiency ^①	> 85.0%	> 87.0%	> 89.5%	> 88.0%
Max. output efficiency ^②	> 93.0% (30% loads)	> 91.5% (30% loads)	> 93.5% (30% loads)	> 93.0% (30% loads)
Idle current	< 0.2A	< 0.15A	< 0.1A	< 0.1A
No-load current	< 1.6A	< 1A	< 0.4A	< 0.6A
USB output	5VDC/Max.1A	5VDC/Max.1A	---	---
RS485 com. port	5VDC/ 200mA			
Mechanical parameters				
Input terminal	M10	M6	M6	M6
Dimension (L x W x H)	550 × 274 × 148mm	521 × 274 × 148mm	516 x 231.5 x 123mm	521 × 274 × 148mm
Mounting size (L x W)	525 × 145mm	495 × 145mm	490 x 145mm	495 × 145mm
Mounting hole size	Φ6mm	Φ6mm	Φ6mm	Φ6mm
Net Weight	11.60kg	9.00kg	7.35kg	10.65kg

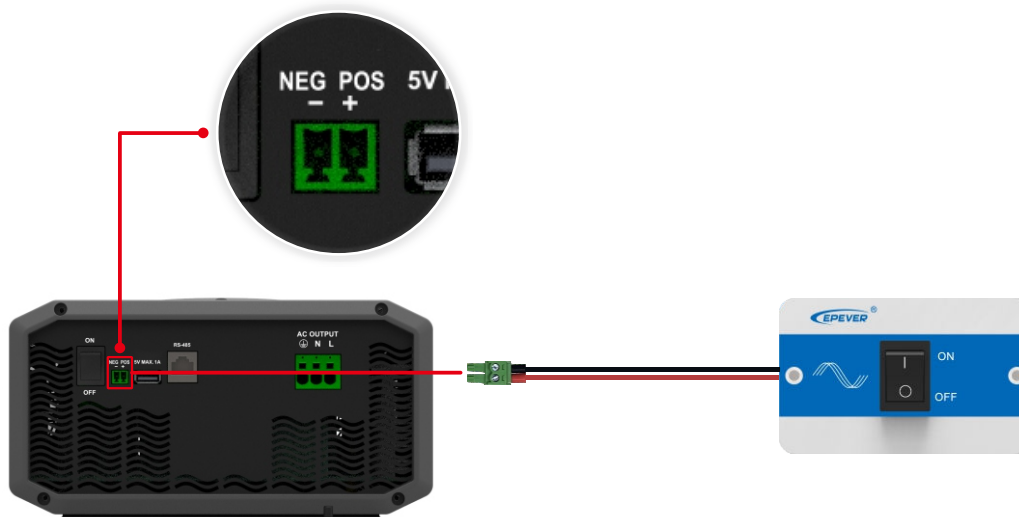
Environment parameters		Certification	
Work temperature	-20°C ~ +60°C (Refer to the Derating Curve)	Safety	EN/IEC62109-1, UL1741, UL458, CSA C22.2#107.1
Storage temperature	-35°C ~ +70°C	EMC(Electromagnetic compatibility)	EN61000-6-1/EN61000-6-3
Relative humidity	≤ 95% (N.C.)		FCC 47 CFR Part 15, Subpart B
Enclosure	IP20	RoHS	IEC62321-3-1
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① It is measured in the condition of continuous output power and rated input voltage.

② It means the max. output efficiency when the inverter is connected with different loads under the rated input voltage.

Remote switch (optional accessory)

This remote switch enables you to remotely power the inverter on/off. It comes with a standard 6-meter switch cable and is compatible with IPower-Plus series products.



Connect the 3.81-2P green socket on the remote switch cable to the 3.81-2P green base on the product's side. Turn off the local toggle switch, and the remote switch will control the inverter's on/off.