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Version:202203

Inverter/charger

Product catalog 2022



www.epever.com



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About EPEVER



We provide tools to explore the off-grid world without concerns of running out of electrical power.

A team of talented creators came together, bringing their knowledge, experience, passion and curiosity to transform complex advanced technology into devices for harvesting energy from sun.

Headquartered in China's capital Beijing, EPEVER benefits from diverse sources of talent. We started from a small company at 2007 and now we are playing a global role in off-grid solar equipment, with more than 120 partners all over the world.



Our mission is to ensure, everyone has access to electrical energy everywhere by helping people to perform better with higher efficiency where there is no grid power.



EPEVER passed ISO9001:2015, ISO14001:2015 and ISO45001:2018 and our products comply with international standards CGC-SOLAR, CE, ROHS, FCC, and ETL certificates. We established a high-tech manufacturing facility as our Huizhou subsidiary to increase the production capacity in 2019.



EPEVER is now a leading manufacturer of solar charge controllers, off-grid inverters, inverter chargers, solar power system and other solar power units.

**We believe in green energy
and it's our passion.**

Solar Station System



Solar Home System



Solar RVs System



Solar Vessels System



Pure Sine Wave Inverter



We can provide many series, many models of pure sine wave inverters

EPEVER pure sine wave inverter, based on a fully digital intelligent design, adopts SPWM, voltage-current dual closed-loop control, and complete isolated inverter technology. Featured with high-quality electrical parameters and strong resistance to load, they can directly convert the DC power into standard AC power anytime.

EPEVER pure sine wave inverter includes low-frequency and high-frequency pure sine wave inverter. These different power and size products can meet various power needs and provide more stable, safer, and more convenient electricity.

EPEVER pure sine wave inverters Benefits

Li

lithium-ion battery

PF=1

Output power factor up to 1

IEC

International standards



More Energy



Safe and Reliable



Smart Energy Management



Easy Installation



Continuous Operation



High Efficiency



Ipower-Plus Pure Sine Wave Inverter

350-5000W, 12/24/48VDC



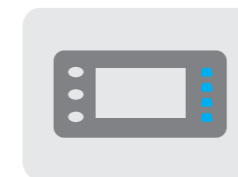
Overview:

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, residences, 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

Accessories (optional)



MT-75
Remote Meter



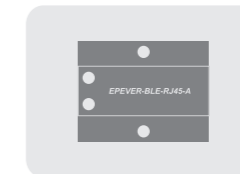
MT-91
Remote Meter



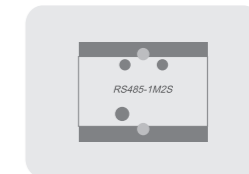
CC-USB-RS485-150U
PC Communication Cable



EPEVER WIFI 2.4G RJ45 A
WIFI Serial Server

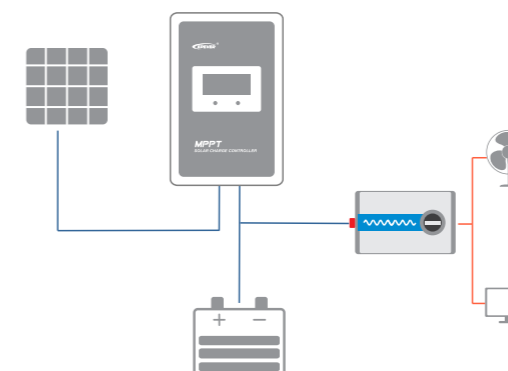


EPEVER BLE RJ45 A
Bluetooth Module



RS485-1M2S
Extension Module

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information



Recommended products

XTRA, Tracer-AN, iTracer,
IPower, Ipower-Plus, NPower

Output:220VAC/230VAC/240VAC



Parameters	IP350-12-Plus	IP350-22-Plus	IP500-12-Plus	IP500-22-Plus	IP1000-12-Plus	IP1000-22-Plus	IP1500-12-Plus	IP1500-22-Plus	IP1500-42-Plus
Continuous output power	350W		500W		1000W		1500W		
Surge power	700W@5S		1000W@5S		2000W@5S		3000W@5S		
Surge current when power on	< 30A		< 50A		< 100A		< 100A		< 50A
Output voltage	220VAC (±3%); 230VAC (-6%~+3%); 240VAC (-9%~+3%)				220VAC (±3%); 230VAC (-6%~+3%)				
Output frequency	50/60Hz ± 0.2%				50/60Hz ± 0.2%				
Output wave	Pure Sine Wave				Pure Sine Wave				
Output distortion THD	THD ≤ 3% (Resistive load)				THD ≤ 3% (Resistive load)				
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)				0.2 ~ 1 (Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC
Rated output efficiency	> 89.0%	> 90.0%	> 89.5%	> 91.5%	> 89.0%	> 90.0%	> 89.0%	> 90.0%	> 92.5%
Max. output efficiency	> 90.0% (70% loads)	> 91.5% (70% loads)	> 91.0% (40% loads)	> 92.0% (40% loads)	> 93.0% (40% loads)	> 93.0% (30% loads)	> 93.0% (30% loads)	> 93.5% (30% loads)	> 94.0% (30% loads)
No-load current	< 0.9A	< 0.4A	< 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		---		
RS485 com. port	5VDC/200mA				5VDC/200mA				
Dimension	229 × 163.5 × 75mm		286 × 163.5 × 78mm		371 × 231.5 × 123mm		387 × 231.5 × 123mm		
Net Weight	1.5kg		2.3kg		5.0kg		6.0kg		
Environment temperature	-20°C ~ +60°C (Refer to the Derating Curve)								
Relative humidity	< 95% (N.C.)								
Enclosure	IP20								
Safety	EN/IEC62109-1, UL1741, UL458, CSA C22.2#107.1								
EMC (Electromagnetic compatibility)	EN61000-6-1/EN61000-6-3 FCC 47 CFR Part 15, Subpart B								
RoHS	IEC62321-3-1								

Output:220VAC/230VAC

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			3000W			4000W	5000W	
Surge power	4000W@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 (-6%~+3%)			220VAC (±3%); 230VAC (-6%~+3%)					
Output frequency	50/60Hz ± 0.2%			50/60Hz ± 0.2%					
Output wave	Pure Sine Wave			Pure Sine Wave					
Output distortion THD	THD ≤ 3% (Resistive load)			THD ≤ 3% (Resistive load)					
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)			0.2 ~ 1 (Load VA ≤ Continuous output power)					
Rated input voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC	48VDC	48VDC	
Input voltage range	10.8 ~ 16.0 VDC	21.6 ~ 32.0V DC	43.2 ~ 64.0 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC	43.2 ~ 64 VDC	43.2 ~ 64.0 VDC	
Rated output efficiency	> 88.0%	> 90.0%	> 92.5%	> 87.0%	> 90.0%	> 92.5%	> 91.0%	> 91.0%	
Max. output efficiency	> 94.0% (30% loads)	> 93.0% (30% loads)	> 94.5% (30% loads)	> 94.0% (30% loads)	> 94.0% (30% loads)	> 94.5% (30% loads)	> 94.0% (30% loads)	> 94.0% (30% loads)	
No-load current	< 1.2A	< 1.0A	< 0.5A	< 1.6A	< 1.0A	< 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					
Dimension	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	
Net Weight	8.0kg	6.5kg	6.5kg	10.5kg	8.0kg	7.0kg	8.0kg	9.0kg	
Environment temperature	-20°C ~ +60°C (Refer to the Derating Curve)								
Relative humidity	< 95% (N.C.)								
Enclosure	IP20								
Safety	EN/IEC62109-1, UL1741, UL458, CSA C22.2#107.1								
EMC (Electromagnetic compatibility)	EN61000-6-1/EN61000-6-3 FCC 47 CFR Part 15, Subpart B								
RoHS	IEC62321-3-1								

Output:110VAC/120VAC



Parameters	IP350-11-Plus	IP350-21-Plus	IP500-11-Plus	IP500-21-Plus	IP1000-11-Plus	IP1000-21-Plus	IP1500-11-Plus	IP1500-21-Plus	IP1500-41-Plus
Continuous output power	350W		500W		1000W		1500W		
Surge power	700W@5S		1000W@5S		2000W@5S		3000W@5S		
Surge current when power on	< 30A		< 50A		< 100A		< 100A		< 50A
Output voltage	110VAC (±3%); 120VAC (-7%~+3%)				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 ≤ 3% (Resistive load)	THD ≤ 4% (Resistive load)		THD ≤ 4% (Resistive load)	THD ≤ 3% (Resistive load)	THD ≤ 4% (Resistive load)		
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)				0.2~1(Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8~16.0 VDC	21.6~32.0 VDC	10.8~16.0 VDC	21.6~32.0 VDC	43.2~64.0 VDC
Rated output efficiency	> 87.0%	> 90.0%	> 87.5%	> 90.0%	> 87.0%	> 90.0%	> 88.0%	> 88.0%	> 90.0%
Max. output efficiency	> 89.0% (70% loads)	> 90.5% (70% loads)	> 90.0% (40% loads)	> 91.0% (40% loads)	> 92.0% (40% loads)	> 92.5% (30% loads)	> 93.0% (30% loads)	> 92.5% (30% loads)	> 92.0% (30% loads)
No-load current	< 0.8A	< 0.4A	< 0.8A	< 0.5A	< 0.8A	< 0.6A	< 1.0A	< 0.9A	< 0.5A
USB output	5VDC/Max.1A				5VDC/Max.1A		5VDC/Max.1A		---
RS485 com. port	5VDC/200mA				5VDC/200mA				
Dimension	229 × 163.5 × 75mm		286 × 163.5 × 78mm		371 × 231.5 × 123mm		387 × 231.5 × 123mm		
Net Weight	1.5kg		2.3kg		5.0kg		6.0kg		
Environment temperature	-20°C ~ +60°C (Refer to the Derating Curve)								
Relative humidity	< 95% (N.C.)								
Enclosure	IP20								
Safety	EN/IEC62109-1, UL1741, UL458, CSA C22.2#107.1								
EMC (Electromagnetic compatibility)	EN61000-6-1/EN61000-6-3 FCC 47 CFR Part 15, Subpart B								
RoHS	IEC62321-3-1								

Output:110VAC/120VAC

Parameters	IP2000-11-Plus	IP2000-21-Plus	IP2000-41-Plus	IP3000-11-Plus	IP3000-21-Plus	IP3000-41-Plus	IP4000-41-Plus
Continuous output power	2000W			3000W			4000W
Surge power	4000W@5S			4800W@5S	6000W@5S	6000W@5S	8000W@5S
Surge current when power on	< 100A	< 100A	< 50A	< 100A	< 100A	< 65A	< 65A
Output voltage	110VAC (±3%); 120VAC (-7%~+3%)			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 ≤ 5% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 5% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)			0.2 ~ 1 (Load VA ≤ Continuous output power)			
Rated input voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC	48VDC
Input voltage range	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC	43.2 ~ 64 VDC
Rated output efficiency	> 85.0%	> 88.0%	> 88.0%	> 85.0%	> 87.0%	> 89.5%	> 88.0%
Max. output efficiency	> 92.0% (30% loads)	> 92.0% (30% loads)	> 93.0% (30% loads)	> 93.0% (30% loads)	> 91.5% (30% loads)	> 93.5% (30% loads)	> 93.0% (30% loads)
No-load current	< 1.2A	< 0.9A	< 0.5A	< 1.6A	< 1A	< 0.4A	< 0.6A
USB output	5VDC/Max.1A	5VDC/ Max.1A	---	5VDC/Max.1A	5VDC/Max.1A	---	---
RS485 com. port	5VDC/ 200mA			5VDC/ 200mA			
Dimension	420×231.5×12 mm	421×231.5×12 mm	421×231.5×123 mm	550×274×148 mm	521×274×148 mm	516 x231.5x123 mm	521×274×148 mm
Net Weight	8.0kg	6.5kg	6.5kg	13.0kg	8.0kg	8.0kg	12.0kg
Environment temperature	-20°C ~ +60°C (Refer to the Derating Curve)						
Relative humidity	< 95% (N.C.)						
Enclosure	IP20						
Safety	EN/IEC62109-1, UL1741, UL458, CSA C22.2#107.1						
EMC (Electromagnetic compatibility)	EN61000-6-1/EN61000-6-3 FCC 47 CFR Part 15, Subpart B						
RoHS	IEC62321-3-1						



IPT Pure Sine Wave Inverter

350-5000W, 12/24/48VDC

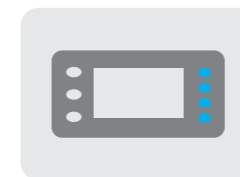
Overview:

The IPT series, a high-frequency sine wave inverter, adopts a fully digital intelligent design and voltage-current dual closed-loop control algorithm. Featured with fast response, high conversion efficiency, low Total Harmonic Distortion (THD), and high reliability running, this series can be widely used in the DC-AC off-grid systems (such as vehicle systems, security monitoring systems, emergency lighting systems, household power systems, field power systems, and other systems requiring higher power quality).

Features:

- *Pure sine wave output
- *Input to output electrical isolation
- *Output power factor up to 1
- *Input Protection: Low-voltage, Over-voltage
- *Output Protection: Overload, Short circuit, Overheating
- *RS485 com. port to realize remote monitoring
- *External switch design, matched with EPEVER products, to expand inverter control function and reduce power consumption
- *Diversified AC output sockets
- *EN/IEC62109-1/2, EN61000-6-2/4, and FCC approved

Accessories (optional)



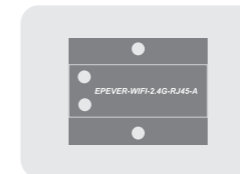
MT-75
Remote Meter



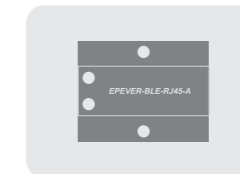
MT-91
Remote Meter



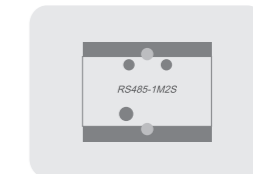
CC-USB-RS485-150U
PC Communication Cable



EPEVER WIFI 2.4G RJ45 A
WIFI Serial Server

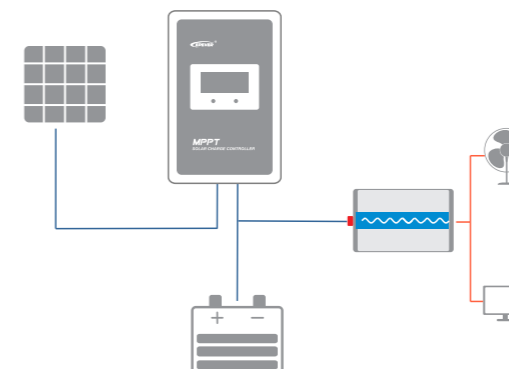


EPEVER BLE RJ45 A
Bluetooth Module



RS485-1M2S
Extension Module

EPEVER can provide many accessories to meet different applications. Please contact sales for more accessories information



Recommended products

XTRA, Tracer-AN, iTracer,
IPower, IPower-Plus, NPower

Output:220VAC/230VAC



Parameter	IPT350-12	IPT350-22	IPT500-12	IPT500-22	IPT1000-12	IPT1000-22	IPT1500-12	IPT1500-22	IPT1500-42
Continuous output power	350W		500W		1000W		1500W@35°C		
Surge power	700W@5S		1000W@5S		2000W@5S		3000W@5S		
Output voltage	220VAC (±3%); 230VAC (-7%~+3%)				220VAC (±3%); 230VAC (-7%~+3%)				
Output frequency	50/60Hz ± 0.2%				50/60Hz ± 0.2%				
Output wave	Pure Sine Wave				Pure Sine Wave				
Output distortion THD	THD ≤ 3% (Resistive load)				THD ≤ 3% (Resistive load)				
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)				0.2 ~ 1 (Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC
Rated output efficiency	> 89.0%	> 90.0%	> 89.5%	> 91.5%	> 89.0%	> 90.0%	> 89.0%	> 90.0%	> 92.5%
Max. output efficiency	> 90.0% (70% loads)	> 91.5% (70% loads)	> 91.0% (40% loads)	> 92.0% (40% loads)	> 93.0% (40% loads)	> 93.0% (30% loads)	> 93.0% (30% loads)	> 93.5% (30% loads)	> 94.0% (30% loads)
Idle current	< 0.15A	< 0.10A	< 0.15A	< 0.10A	< 0.2A	< 0.15A	< 0.2A	< 0.15A	< 0.1A
No-load current	< 0.9A	< 0.4A	< 0.9A	< 0.6A	< 1.1A	< 0.9A	< 1.2A	< 0.9A	< 0.5A
RS485 com. port	5VDC/200mA				5VDC/200mA				
Mechanical parameters									
Input terminal	M6		M6		M6		M6		
Dimension (L x W x H)	229 x 160 x 73mm		286 x 160 x 73mm		371 x 228 x 118mm		387 x 228 x 118mm		
Mounting size	205 x 75mm		262 x 75mm		345 x 145mm		361 x 145mm		
Mounting hole size	Φ5mm		Φ5mm		Φ6mm		Φ6mm		
Net Weight	1.5kg		2.3kg		4.8kg		5.8kg		
Environment parameters									
Working temperature	-20°C ~ +60°C (Refer to the Derating Curve)								
Storage temperature	-35 °C ~ +70 °C								
Relative humidity	≤ 95% (N.C.)								
Enclosure	IP20								
Altitude	< 5000m (If the altitude exceeds 1000 meters, the rated power will be reduced according to IEC62040.)								

Output:220VAC/230VAC

Parameter	IPT2000-12	IPT2000-22	IPT2000-42	IPT3000-12	IPT3000-22	IPT3000-42	IPT4000-42	IPT5000-42
Continuous output power	2000W			3000W			4000W	5000W
Surge power	4000W@5S			6000W@5S			8000W@5S	
Output voltage	220VAC (±3%); 230VAC (-7%~+3%)			220VAC (±3%); 230VAC (-7%~+3%)				
Output frequency	50/60Hz ± 0.2%			50/60Hz ± 0.2%				
Output wave	Pure Sine Wave			Pure Sine Wave				
Output distortion THD	THD ≤ 3% (Resistive load)			THD ≤ 3% (Resistive load)				
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)			0.2 ~ 1 (Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC	48VDC	
Input voltage range	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC	43.2 ~ 64.0 VDC	
Rated output efficiency	> 88.0%	> 90.0%	> 92.5%	> 87.0%	> 90.0%	> 92.5%	> 91.0%	
Max. output efficiency	> 94.0% (30% loads)	> 93.0% (30% loads)	> 94.5% (30% loads)	> 94.0% (30% loads)	> 94.0% (30% loads)	> 94.5% (30% loads)	> 94.0% (30% loads)	
Idle current	< 0.2A	< 0.15A	< 0.1A	< 0.2A	< 0.15A	< 0.1A	< 0.1A	< 0.1A
No-load current	< 1.2A	< 1.0A	< 0.5A	< 1.6A	< 1.0A	< 0.5A	< 0.6A	< 0.8A
RS485 com. port	5VDC/200mA			5VDC/200mA				
Mechanical parameters								
Input terminal	M10	M6	M6	M10	M6	M6	M6	M6
Dimension (L x W x H)	420×228×118 mm	421×228×118 mm	421×228×118 mm	557× 28×118 mm	521×270×143 mm	491×228×118 mm	516×228×118 mm	531×228×118 mm
Mounting size	395 x 145mm	395 x 145mm	395 x 145mm	532 x 145mm	495 x 145mm	465 x 145mm	490 x 145mm	505 x 145mm
Mounting hole size	Φ6mm	Φ6mm	Φ6mm	Φ6mm	Φ6mm	Φ6mm	Φ6mm	Φ6mm
Net Weight	7.8kg	6.5kg	6.5kg	10.0kg	8.5kg	7.0kg	8.0kg	9.0kg
Environment parameters								
Working temperature	-20°C ~ +60°C (Refer to the Derating Curve)							
Storage temperature	-35 °C ~ +70 °C							
Relative humidity	≤ 95% (N.C.)							
Enclosure	IP20							
Altitude	< 5000m (If the altitude exceeds 1000 meters, the rated power will be reduced according to IEC62040.)							

Output:110VAC/120VAC



Parameter	IPT350-11	IPT350-21	IPT500-11	IPT500-21	IPT1000-11	IPT1000-21	IPT1500-11	IPT1500-21	IPT1500-41
Continuous output power	350W		500W		1000W		1500W		
Surge power	700W@5S		1000W@5S		2000W@5S		3000W@5S		
Output voltage	110VAC (±3%); 120VAC (-7%~+3%)				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 ≤ 3% (Resistive load)	THD ≤ 4% (Resistive load)		THD ≤ 4% (Resistive load)	THD ≤ 3% (Resistive load)	THD ≤ 4% (Resistive load)		
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)				0.2 ~ 1 (Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	10.8 ~ 16.0 VDC	21.6 ~ 32.0 VDC	43.2 ~ 64.0 VDC
Rated output efficiency	> 87.0%	> 90.0%	> 87.5%	> 90.0%	> 87.0%	> 90.0%	> 88.0%	> 88.0%	> 90.0%
Max. output efficiency	> 89.0% (70% loads)	> 90.5% (70% loads)	> 90.0% (40% loads)	> 91.0% (40% loads)	> 92.0% (40% loads)	> 92.5% (30% loads)	> 93.0% (30% loads)	> 92.5% (30% loads)	> 92.0% (30% loads)
Idle current	< 0.2A		< 0.15A	< 0.10A	< 0.2A	< 0.15A	< 0.2A	< 0.15A	< 0.1A
No-load current	< 0.8A	< 0.4A	< 0.8A	< 0.5A	< 0.8A	< 0.6A	< 1.0A	< 0.9A	< 0.5A
RS485 com. port	5VDC/200mA				5VDC/200mA				
Mechanical parameters									
Input terminal	M6		M6		M6		M6		
Dimension (L x W x H)	229 x 160 x 73mm		286 x 160 x 73mm		371 x 228 x 118mm		387 x 228 x 118mm		
Mounting size	205 x 75mm		262 x 75mm		345 x 145mm		361 x 145mm		
Mounting hole size	Φ5mm		Φ5mm		Φ6mm		Φ6mm		
Net Weight	1.5kg		2.3kg		4.8kg		5.8kg		
Environment parameters									
Working temperature	-20°C ~ +60°C (Refer to the Derating Curve)								
Storage temperature	-35 °C ~ +70 °C								
Relative humidity	≤ 95% (N.C.)								
Enclosure	IP20								
Altitude	< 5000m (If the altitude exceeds 1000 meters, the rated power will be reduced according to IEC62040.)								

Output:110VAC/120VAC

Parameter	IPT2000-11	IPT2000-21	IPT2000-41	IPT3000-11	IPT3000-21	IPT3000-41	IPT4000-41
Continuous output power	2000W			3000W			4000W
Surge power	4000W@5S			4800W@5S	6000W@5S	6000W@5S	8000W@5S
Output voltage	110VAC (±3%); 120VAC (-7%~+3%)			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 ≤ 5% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 5% (Resistive load)	THD ≤ 4% (Resistive load)	THD ≤ 4% (Resistive load)
Load power factor	0.2 ~ 1 (Load VA ≤ Continuous output power)			0.2 ~ 1 (Load VA ≤ Continuous output power)			
Rated input voltage	12VDC	24VDC	48VDC	12VDC	24VDC	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 ~ 64.0VDC
Rated output efficiency	> 85.0%	> 88.0%	> 88.0%	> 85.0%	> 87.0%	> 89.5%	> 88.0%
Max. output efficiency	> 92.0% (30% loads)	> 92.0% (30% loads)	> 93.0% (30% loads)	> 93.0% (30% loads)	> 91.5% (30% loads)	> 93.5% (30% loads)	> 93.0% (30% loads)
Idle current	< 0.2A	< 0.15A	< 0.1A	< 0.2A	< 0.15A	< 0.1A	< 0.1A
No-load current	< 1.2A	< 0.9A	< 0.5A	< 1.6A	< 1A	< 0.4A	< 0.6A
RS485 com. port	5VDC/200mA			5VDC/200mA			
Mechanical parameters							
Input terminal	M10	M6	M6	M10	M6	M6	M6
Dimension (L x W x H)	420 x 228 x 118 mm	421 x 228 x 118 mm		550 x 270 x 143 mm	521 x 270 x 143 mm	516 x 228 x 118 mm	521 x 270 x 143 mm
Mounting size	395 x 145mm	395 x 145mm		525 x 145mm	495 x 145mm	490 x 145mm	495 x 145mm
Mounting hole size	Φ6mm	Φ6mm		Φ6mm	Φ6mm	Φ6mm	Φ6mm
Net Weight	7.5kg	6.5kg		13.0kg	9.0kg	7.5kg	12.0kg
Environment parameters							
Working temperature	-20°C ~ +60°C (Refer to the Derating Curve)						
Storage temperature	-35 °C ~ +70 °C						
Relative humidity	≤ 95% (N.C.)						
Enclosure	IP20						
Altitude	< 5000m (If the altitude exceeds 1000 meters, the rated power will be reduced according to IEC62040.)						

Ipower Pure Sine Wave Inverter

350-2000W,12/24/48VDC



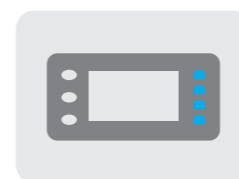
Overview:

Ipower series is a pure sine wave inverter which can convert 12/24/48VDC to 220/230VAC(or 110/120VAC). The power is from 350VA to 2000VA. The inverter can be applied in many fields. Its wide input voltage range is ideal for solar system applications.

Features:

- *Safe design with input and output electrical isolation
- *Adoption of advanced SPWM technology, pure sine wave output
- *Optional output voltage 220/230VAC (or 110/120VAC), set by DIP switch
- *Output frequency 50/60Hz, set by DIP switch
- *LED indicators for working and fault status
- *Lower No-load consumption
- *Max. efficiency up to 95%
- *Input protection: Over voltage protection, low voltage protection
- *Output protection: Overload protection, short circuit protection
- *Over temperature protection: Temperature-controlled Fan Ventilation; Inverter turns off automatically when over temperature.

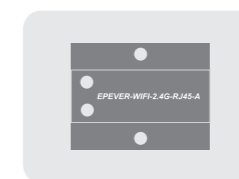
Accessories (optional)



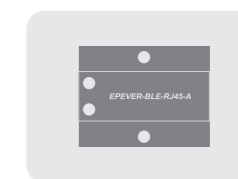
MT-75
Remote Meter



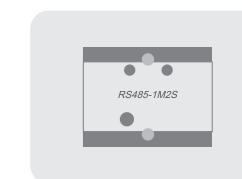
CC-USB-RS485-150U
PC Communication Cable



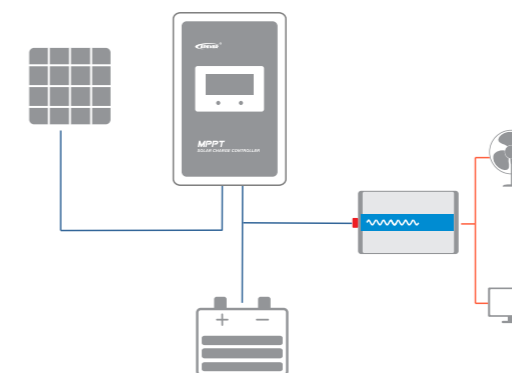
EPEVER WIFI 2.4G RJ45 A
WIFI Serial Server



EPEVER BLE RJ45 A
Bluetooth Module



RS485-1M2S
Extension Module



Recommended products

XTRA, Tracer-AN, Tracer-BN, iTracer,
IPower, IPower-Plus, NPower

Output:220VAC/230VAC



Item	IP350-12	IP350-22	IP500-12	IP500-22	IP1000-12	IP1000-22	IP1500-12	IP1500-22	IP2000-22	IP2000-42
Continuous output power	280W	280W	400W	400W	800W	800W	1200W	1200W	1600W	1600W
Output power 15 min	350W	350W	500W	500W	1000W	1000W	1500W	1500W	2000W	2000W
Surge power	750W	750W	1000W	1000W	1600W	1600W	2400W	2400W	3200W	3200W
Output voltage	220VAC(±5%) 230VAC(-7%~+5%)		220VAC(±5%) 230VAC(-10%~+5%)		220VAC/ 230VAC (±5%)	220VAC/ 230VAC (±5%)	220VAC(±5%) 230VAC(-7%~+5%)		220VAC(±5%) 230VAC(-10%~+5%)	
Output frequency	50/60±0.1Hz					50/60±0.1Hz				
Output wave	Pure sine wave					Pure sine wave				
Output distortion THD	THD≤3%					THD≤3%				
Load power factor	0.2-1(Load VA ≤ Continuous output power)					0.2-1(Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC
Input voltage range	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	21.6~32VDC	43.2~60VDC
Input surge voltage	<32VDC	<44VDC	<32VDC	<44VDC	<20VDC	<40VDC	<20VDC	<40VDC	<40VDC	<80VDC
Max. output efficiency	91%	92%	92%	92%	94.50%	94.50%	93%	94%	95%	95%
No-load current	<0.7A	<0.5A	<0.9A	<0.5A	<0.8A	<0.5A	<1.0A	<0.6A	<0.6A	<0.4A
USB output	5VDC/Max.1A					5VDC/Max.1A				
RS485 com. port	/	/	/	/	5VDC/200mA	5VDC/200mA				
Dimension(LxWxH)mm	214×105.5 ×57.7	214×105.5 ×57.7	232.2×132 ×74.5	232.2×132 ×74.5	298.3×231.5 ×98.5	284.7×231.5 ×98.5	326.12×231.5 ×98.5	284.7×231.5 ×98.5	326.1×231.5 ×98.5	326.1×231.5 ×98.5
Mounting dimension (mm)	185.5×76.7	185.5×76.7	205×102	205×102	183×220	163×219.5	208×220	163×219.5	208×219.5	208×219.5
Net weight	1.0kg	1.0kg	1.7kg	1.7kg	3.9kg	3.6kg	4.6kg	3.9kg	4.6kg	4.6kg
Operating temperature range	-20°C~ +45°C					-20°C~ +45°C				
Relative humidity	< 95%(N.C.)					< 95%(N.C.)				
Enclosure	IP20					IP20				

Output:110VAC/120VAC

Item	IP350-11	IP350-21	IP500-11	IP500-21	IP1000-11	IP1000-21	IP1500-11	IP1500-21	IP2000-21	IP2000-41
Continuous output power	280W	280W	400W	400W	800W	800W	1200W	1200W	1600W	1600W
Output power 15 min.	350W	350W	500W	500W	1000W	1000W	1500W	1500W	2000W	2000W
Surge power	750W	750W	1000W	1000W	1600W	1600W	2400W	2400W	3200W	3200W
Output voltage	110VAC(±5%)120VAC(-10%~+5%)				110VAC 120VAC (±3%)	110VAC 120VAC (±3%)	110VAC(±3%) 120VAC(-7%~+3%)		110VAC(±5%) 120VAC(-10%~+5%)	
Output frequency	50/60±0.1Hz					50/60±0.1Hz				
Output wave	Pure sine wave					Pure sine wave				
Output distortion THD	THD≤5%					THD≤5%				
Load power factor	0.2-1(Load VA ≤ Continuous output power)					0.2-1(Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	24VDC	48VDC
Input voltage range	10.8~16 VDC	21.6~32 VDC	10.8~16 VDC	21.6~32 VDC	10.8~16 VDC	21.6~32 VDC	10.8~16 VDC	21.6~32 VDC	21.6~32 VDC	43.2~60 VDC
Input surge voltage	<32VDC	<44VDC	<32VDC	<44VDC	<20VDC	<44VDC	<20VDC	<40VDC	<40VDC	<80VDC
Max. output efficiency	90%	91%	91%	91%	92.50%	92.50%	93%	94%	94%	94%
No-load current	<0.7A	<0.5A	<0.9A	<0.5A	<0.8A	<0.5A	<1.0A	<0.6A	<0.6A	<0.4A
USB output	5VDC/Max.1A					5VDC/Max.1A				
RS485 com. port	/				5VDC/200mA	5VDC/200mA				
Dimension(LxWxH)mm	214× 105.5×57.7	214× 105.5×57.7	232.2× 132×74.5	232.2× 132×74.5	298.3× 231.5×98.5	284.7× 231.5×98.5	326.1× 231.5×98.5	284.7× 231.5×98.5	326.1× 231.5×98.5	326.1× 231.5×98.5
Mounting dimension (mm)	185.5×76.7	185.5×76.7	205×102	205×102	183×220	163×219.5	208×220	163×219.5	208×219.5	208×219.5
Net weight	1.0kg	1.0kg	1.7kg	1.7kg	3.9kg	3.6kg	4.6kg	3.9kg	4.6kg	4.6kg
Operating temperature range	-20°C~ +45°C					-20°C~ +45°C				
Relative humidity	< 95%(N.C.)					< 95%(N.C.)				
Enclosure	IP20					IP20				

NPower Pure Sine Wave Inverter

260-5000W,12/24/48VDC



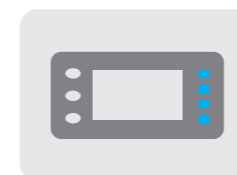
Overview:

NPower series is a low-frequency pure sine wave inverter which can convert 12/24/48VDC to 220/230V AC (or 110V/120V AC) and power the AC loads. It has stronger ability to work with impact load. Ranging from 260W to 5000W, Npower is compatible with lithium-ion battery perfectly, and suits for the system which requires high reliability.

Features:

- Adoption of advanced SPWM technology, pure sine wave output
- Adopt voltage and current double closed-loop control to enhance the load capacity
- The input and output adopt completely isolated inverter technology with high reliability
- The input adopts anti-surge design to meet the special requirements of surge limitation of the lithium battery
- Low output harmonic distortion (THD ≤ 3%)
- The AC output adopts excellent EMC design to prevent interference of connected equipment
- Output voltage 220/230VAC and frequency 50/60Hz optional
- Extensive protections: input reverse polarity, input overvoltage, input low voltage, output overload and short circuit, overheating
- OperRS485 port can connect the communication module, realize remote start/stop inverter and monitor the running status via the APP or PC software
- The case is designed with the galvanized board, with high strength and strong corrosion resistance
- Australia/New Zealand, European, Universal, Terminal selectable

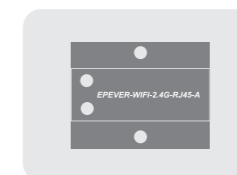
Accessories (optional)



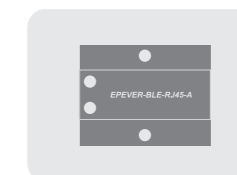
MT-75
Remote Meter



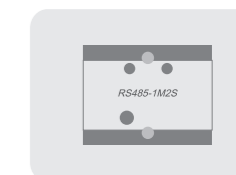
CC-USB-RS485-150U
PC Communication Cable



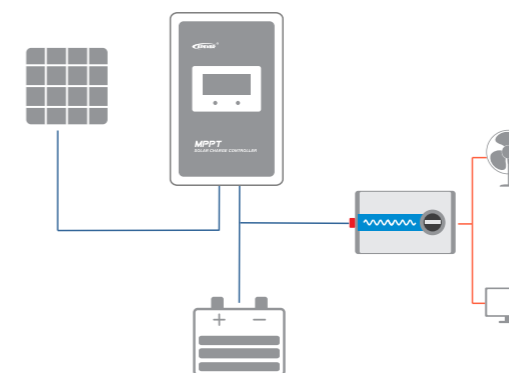
EPEVER WIFI 2.4G RJ45 A
WIFI Serial Server



EPEVER BLE RJ45 A
Bluetooth Module



RS485-1M2S
Extension Module



Recommended products

XTRA, Tracer-AN, Tracer-BN, iTracer, IPower, IPower-Plus, NPower

Output:220VAC/230VAC



Item	NP260-12	NP260-22	NP400-12	NP400-22	NP600-12	NP600-22	NP800-12	NP1000-22
Continuous output power	260W@25°C 260W@45°C	260W@25°C 260W@45°C	400W@25°C 350W@45°C	400W@25°C 350W@45°C	600W@25°C 500W@45°C	600W@25°C 500W@45°C	800W@25°C 800W@45°C	1000W@25°C 800W@45°C
Surge power	400W	400W	700W	700W	1000W	1000W	1600W	2000W
Output voltage	220/230VAC (-8%~+3%)	220/230VAC (±3%)	220/230VAC (-8%~+3%)	220/230VAC (±3%)	220/230VAC (-8%~+3%)	220/230VAC (±3%)	220/230VAC (-8%~+3%)	220/230VAC(±3%)
Output frequency	50/60Hz±0.2%				50/60Hz±0.2%			
Output wave	Pure sine wave				Pure sine wave			
Output distortion THD	THD≤3%(Resistive load)				THD≤3%(Resistive load)			
Load power factor	0.2-1(Load VA ≤ Continuous output power)				0.2-1(Load VA ≤ Continuous output power)			
Rated input voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC
Input voltage range	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC
Output efficiency of 80% rated power	0.81	0.84	0.81	0.85	0.81	0.85	0.83	0.85
Max. rated efficiency	0.79	0.82	0.79	0.84	0.8	0.83	0.81	0.82
Max. output efficiency	89%(80W)	90%(100W)	90%(100W)	91%(100W)	89%(200W)	92%(160W)	92%(100W)	92%(200W)
No-load current	<0.4A	<0.3A	<0.5A	<0.3A	<0.6A	<0.4A	<0.6A	<0.4A
Static Loss	<0.3W@12V	<0.4W@24V	<0.3W@12V	<0.4W@24V	<0.3W@12V	<0.4W@24V	<0.3W@12V	<0.4W@24V
RS485 com. port	5VDC/300mA(Non-isolated)				5VDC/300mA(Non-isolated)			
Dimension(LxWxH)	365×212×97mm	365×212×97mm	386×215×99mm	386×215×99mm	428×243×121mm	428×243×121mm	475×268×139mm	475×268×139mm
Mounting dimension	220×193mm	220×193mm	230×196mm	230×196mm	260×220mm	260×220mm	270×245mm	270×245mm
Net Weight	6.4kg	6.3kg	8.1kg	7.9kg	10.4kg	10.1kg	13.3kg	12.7kg
Operating temperature range	-20°C~+45°C(Fullload)				-20°C~+45°C(Fullload)			
Relative humidity	<95%(N.C.)				<95%(N.C.)			
Enclosure	IP20				IP20			

Output:220VAC/230VAC

Item	NP1000-42	NP1200-12	NP1200-22	NP1500-12	NP1500-22	NP2000-12	NP2000-22	NP2000-42
Continuous output power	1000W@25°C 1000W@45°C	1200W@25°C 1000W@45°C	1200W@25°C 1000W@45°C	1500W@25°C 1300W@45°C	1500W@25°C 1500W@45°C	2000W@25°C 2000W@45°C	2000W@25°C 2000W@45°C	2000W@25°C 2000W@45°C
Surge power	2000W	2000W	2000W	3000W	3000W	4000W	4000W	4000W
Output voltage	220/230VAC(±3%)	220/230VAC (-8%~+3%)	220/230VAC(±3%)	220/230VAC (-5%~+3%)	220/230VAC(±3%)	220/230VAC (-5%~+3%)	220/230VAC(±3%)	220/230VAC(±3%)
Output frequency	50/60Hz±0.2%				50/60Hz±0.2%			
Output wave	Pure sine wave				Pure sine wave			
Output distortion THD	THD≤3%(Resistive load)			THD≤5% (Resistive load)	THD≤3% (Resistive load)	THD≤5% (Resistive load)	THD≤3% (Resistive load)	THD≤3% (Resistive load)
Load power factor	0.2-1(Load VA ≤ Continuous output power)				0.2-1(Load VA ≤ Continuous output power)			
Rated input voltage	48VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	48VDC
Input voltage range	43.2~64.0VDC	10.8~16VDC	21.6~32VDC	10.8~16VDC	21.6~32VDC	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC
Output efficiency of 80% rated power	0.908	0.81	0.85	0.84	0.885	0.845	0.88	0.89
Max. rated efficiency	0.894	0.78	0.84	0.82	0.87	0.82	0.86	0.87
Max. output efficiency	94.5%(300W)	92%(200W)	93%(300W)	90%(400W)	92%(500W)	90%(600W)	93%(500W)	93%(500W)
No-load current	<0.19A	<0.6A	<0.4A	<2.0A	<0.5A	<2.5A	<0.6A	<0.3A
Static Loss	<0.7W@48V	<0.3W@12V	<0.4W@24V	<0.6W@12V	<0.6W@24V	<0.6W@12V	<0.6W@24V	<1.8W@48V
RS485 com. port	5VDC/200mA (Isolation)	5VDC/300mA(Non-isolated)			5VDC/300mA(Non-isolated)			5VDC/200mA (Isolation)
Dimension(LxWxH)	452×268×139mm	511×268×139mm		566×313×145mm	566×313×145mm	554×393×175mm	554×393×175mm	486×313×145mm
Mounting dimension	270×245mm	300×245mm	300×245mm	350×292mm	350×292mm	350×372mm	350×372mm	350×292mm
Net Weight	13.91kg	15.7kg	15.3kg	20.3kg	20.2kg	29.8kg	27.6kg	20.7kg
Operating temperature range	-20°C~+45°C(Fullload)				-20°C~+45°C(Fullload)			
Relative humidity	<95%(N.C.)				<95%(N.C.)			
Enclosure	IP20				IP20			

Output:220VAC/230VAC



Item	NP2500-12	NP2500-22	NP2500-42	NP3000-22	NP3000-42	NP3500-42	NP4000-22	NP4000-42	NP5000-42
Continuous output power	2500W@25°C 2500W@45°C			3000W@25°C 3000W@45°C	3000W@25°C 3000W@45°C	3500W@25°C 3500W@45°C	4000W@25°C 4000W@45°C	4000W@25°C 4000W@45°C	5000W@25°C 5000W@45°C
Surge power	5000W			6000W	6000W	7000W	8000W	8000W	10000W
Output voltage	220/230VAC (-8%~+3%)	220/230VAC (-6%~+3%)	220/230VAC (±3%)	220/230VAC (-5%~+3%)	220/230VAC(±3%)				
Output frequency	50/60Hz±0.2%				50/60Hz±0.2%				
Output wave	Pure sine wave				Pure sine wave				
Output distortion THD	THD≤5% (Resistive load)	THD≤3%(Resistive load)			THD≤3%(Resistive load)				
Load power factor	0.2-1(Load VA ≤ Continuous output power)				0.2-1(Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	48VDC	24VDC	48VDC	48VDC	24VDC	48VDC	48VDC
Input voltage range	10.8~16VDC	21.6~32VDC	43.2~64VDC	21.6~32VDC	43.2~64VDC	43.2~64VDC	21.6~32VDC	43.2~64VDC	43.2~64VDC
Output efficiency of 80% rated power	0.87	0.89	0.915	0.88	0.9	0.9	0.89	0.915	0.915
Max. rated efficiency	0.85	0.87	0.9	0.86	0.89	0.89	0.86	0.9	0.9
Max. output efficiency	90%(700W)	93%(500W)	94%(800W)	94%(500W)	94%(900W)	93%(900W)	93%(1400W)	94%(1000W)	94%(1400W)
No-load current	< 3.0A	< 0.8A	< 0.5A	< 0.8A	< 0.5A	< 0.5A	< 2.5A	< 0.5A	< 0.5A
Static Loss	< 0.6W@12V	< 0.6W@24V	< 1.8W@48V	< 0.6W@24V	< 1.8W@48V	< 1.8W@48V	< 0.6W@24V	< 1.8W@48V	< 1.8W@48V
RS485 com. port	5VDC/300mA(Non-isolated)			5VDC/200mA(Isolation)		5VDC/300mA (Non-isolated)	5VDC/200mA(Isolation)		
Dimension(LxWxH)	584×393 ×175mm	604×393 ×175mm	549×328 ×175mm	639×393 ×175.5mm	584×328 ×170mm	564×353 ×175mm	660×435 ×210mm	604×393 ×175mm	640×435 ×210mm
Mounting dimension	350×372mm	350×372mm	350×307mm	350×372mm	350×307mm	350×332mm	625×300mm	350×340mm	605×300mm
Net Weight	32kg	32.2kg	25.5kg	34.0kg	28.4kg	32.2kg	43.2kg	37kg	50kg
Operating temperature range	-20°C~+45°C(Fullload)				-20°C~+45°C(Fullload)				
Relative humidity	<95%(N.C.)				<95%(N.C.)				
Enclosure	IP20				IP20				

Output:110VAC/120VAC

Item	NP600-11	NP1000-11	NP1000-21	NP2000-11	NP2000-21	NP2000-41	NP2500-11	NP2500-21	NP2500-41
Continuous output power	600W@25°C 500W@45°C	1000W@25°C 800W@45°C	1000W@25°C 1000W@45°C	2000W@25°C 2000W@45°C	2000W@25°C 2000W@45°C	2000W@25°C 2000W@45°C	2500W@25°C 2500W@45°C	2500W@25°C 2500W@45°C	2500W@25°C 2500W@45°C
Surge power	1200W	2000W	2000W	4000W	4000W	4000W	5000W	5000W	5000W
Output voltage	110/120VAC (±5%)	110/120VAC (±5%)	110/120VAC (±5%)	110/120VAC (±5%)	110/120VAC (±5%)	110/120VAC (±5%)	110/120VAC (±5%)	110/120VAC (±5%)	110/120VAC (±5%)
Output frequency	50/60Hz±0.2%				50/60Hz±0.2%				
Output wave	Pure sine wave				Pure sine wave				
Output distortion THD	THD≤5%(Resistive load)				THD≤5%(Resistive load)				
Load power factor	0.2-1(Load VA ≤ Continuous output power)				0.2-1(Load VA ≤ Continuous output power)				
Rated input voltage	12VDC	12VDC	24VDC	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
Input voltage range	10.8~16.0VDC	10.8~16.0VDC	21.6~32VDC	10.8~16.0VDC	21.6~32.0VDC	43.2~64.0VDC	10.8~16.0VDC	21.6~32.0VDC	43.2~64VDC
Output efficiency of 80% rated power	0.825	0.834	0.88	0.84	0.89	0.894	0.844	0.891	0.911
Max. rated efficiency	0.802	0.806	0.857	0.825	0.875	0.877	0.813	0.868	0.897
Max. output efficiency	90.7%(150W)	92.2%(200W)	93.4%(250W)	90.8%(500W)	93.9%(500W)	93.9%(500W)	90.9%(500W)	94%(500W)	94%(800W)
No-load current	< 0.67A	< 0.59A	< 0.33A	< 1.9A	< 0.5A	< 0.3A	< 2.1A	< 0.6A	< 0.5A
Static Loss	< 0.3W@12V	< 0.3W@12V	< 0.4W@24V	< 0.6W@12V	< 0.6W@24V	< 1.8W@48V	< 0.6W@12V	< 0.6W@24V	< 1.8W@48V
RS485 com. port	5VDC/300mA(Non-isolated)				5VDC/300mA (Non-isolated)	5VDC/200mA (Isolation)	5VDC/300mA (Non-isolated)	5VDC/300mA (Non-isolated)	5VDC/200mA (Isolation)
Dimension(LxWxH)	428×243×121mm	511×268×139mm	511×268×139mm	554×393×175mm	554×393×175mm	486×313×145mm	584×393×175mm	604×393×175mm	549×328×175mm
Mounting dimension	260×220mm	300×245mm	300×245mm	350×372mm	350×372mm	350×292mm	350×372mm	350×372mm	350×307mm
Net Weight	10.8kg	16.1kg	16.0kg	30.3kg	28.1kg	21.2kg	32.5kg	32.7kg	26.5kg
Operating temperature range	-20°C~+45°C(Fullload)				-20°C~+45°C(Fullload)				
Relative humidity	<95%(N.C.)				<95%(N.C.)				
Enclosure	IP20				IP20				

TPower Pure Sine Wave Inverter

10000-40000VA, 110/220VDC



Overview:

TPower series, based on a full intelligent digital design, is a pure sine wave power frequency inverter that converts DC 110V (220V) into 220 (230V) AC power. The inverter combines DC-AC module and AC-AC bypass module in parallel. It has excellent characteristics like high reliability, high efficiency, extensive electronic protection, convenient installation, and operation, which makes it the best choice.

Features:

- *Adoption of completely isolated inverter technology
- *Adoption of advanced SPWM technology, pure sine wave output
- *Low output harmonic distortion (THD≤3%)
- *Output voltage 220/230VAC and frequency 50/60HZ optional
- *Function of real-time power query and output power statistics
- *Friendly operation interface
- *Multiple automatic protection functions of short circuit / overheating overload
- *Overload operation under 1.1times continue for 10 minutes
- *Fan intelligent control, reduce loss and noise
- *Adopt high reliability and imported semiconductor module
- *Remote monitoring and hardware startup
- *360°Free movement and fixation (Optional casters)

Specifications

Item	TP10K-110/220-1	TP10KB-110/220-1	TP10K-220/220-1	TP10KB-220/220-1	TP20K-220/220-1	TP20KB-220/220-1	TP30K-220/220-1	TP30KB-220/220-1	TP40K-220/220-1	TP40KB-220/220-1
Rated input voltage	110VDC		220VDC		220VDC				220VDC	
Battery Input voltage range	93VDC ~ 146VDC		187VDC ~ 293VDC		185VDC ~ 295VDC		185VDC ~ 295VDC		203VDC ~ 280VDC	
Max. input current	122A		60A		150A		234A		263A	
Rated output power	10000VA				20000VA		30000VA		40000VA	
Output voltage	220/230VAC±3% (Battery power mode)				220/230VAC±3% (Battery power mode)				220/230VAC±3% (Battery power mode)	
Output frequency	50Hz/60Hz±3% (Battery power mode)				50Hz/60Hz±3% (Battery power mode)		50Hz/60Hz±3% (Battery power mode)		50Hz/60Hz±3% (Battery power mode)	
Output power factor	0.2 ~ 1				0.2 ~ 1				0.2 ~ 1	
Output way	Single-phase				Single-phase				Single-phase	
Output wave	Pure Sine Wave				Pure Sine Wave				Pure Sine Wave	
Output THD	≤ 3%(Resistive load)				≤ 3%(Resistive load)				≤ 3%(Resistive load)	
Max. inverter efficiency	> 90% (Resistive rated load)				> 90% (Resistive rated load)		> 90% (Resistive rated load)		> 92% (Resistive rated load)	
Bypass Input voltage range	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC	—	170VAC ~ 275VAC
Bypass transfer time	12mS				12mS				12mS	
No-load consumption	≤ 2%				≤ 2%		≤ 2%		≤ 2%	
Operating temperature	-25°C ~ 50°C									
Enclosure	IP20									
Relative humidity range	0 ~ 95%(N.C.)									
Altitude	5000m (Derating above1500m)									

UPower Inverter/Charger

1000-5000W,12/24/48VDC



Overview:

UPower series is an inverter/charger with power from 1KVA to 5KVA, which combines MPPT solar charge controller, pure sine wave inverter, and AC/DC charger in one unit. The inverter and AC/DC charger can work simultaneously, makes UPower perfectly suits residential applications, schools, cottages and the area where the electricity is not stable or the applications that need uninterruptible power.

Features:

- *A new type of all-digital intelligent energy storage and management Inverter/charger
- *MPPT technology, Max. tracking efficiency 99.5 %, Max. DC-DC conversion efficiency 98.5 %
- *Advanced all-digital control technology for AC-DC charging modules
- *SPWM technology, with high efficiency up to 95 %
- *With the function of Utility & Solar charging ratio selection, and total charging current setting
- *Four charging mode and two output mode
- *Rich set of options
- *RS485 isolated communication interface with standard Modbus protocol
- *Extensive electronic protections
- *Variety of accessories can be selected according to user's requirements

Specifications

Model	UP1000-M3212	UP1000-M3222	UP1500-M3222	UP2000-M3322	UP3000-M3322	UP3000-M6322
Nominal battery voltage	12VDC	24VDC				
Battery input voltage range	10.8~16VDC	21.6~32VDC				
Inverter output						
Continuous output power	800W	800W	1200W	1600W	2400W	2400W
Output power 15min.	1000W	1000W	1500W	2000W	3000W	3000W
Output voltage range	220V(-6%~+5%) 230V(-10%~+5%)	220V±5%;230V(-10%~+5%)				
Output frequency	50/60±0.1Hz					
Output mode	Single phase					
Output wave	Pure Sine Wave					
Distortion THD	≤3%(12V or 24V resistive load)					
Max. efficiency	91%	94%	95%			
Utility charging						
Utility input voltage range	160VAC~280VAC(Working voltage range);170VAC~270VAC(Utility starting voltage range)					
Max. utility charge current	20A	20A	20A	30A	30A	30A
Solar charging						
Max. PV open circuit voltage	60V(At minimum temperature) 46V(25°C)	100V(At minimum temperature) 92V(25°C)			150V(At minimum temperature) 138V(25°C)	
Max. PV input power	390W	780W	780W	780W	780W	1500W
Max. PV charging current	30A	30A	30A	30A	30A	60A
Equalization voltage	Sealed:14.6V,Flooded:14.8V	Sealed:29.2V,Flooded:29.6V				
Boost voltage	Gel:14.2V,Sealed:14.4V,Flooded:14.6V	Gel:28.4V,Sealed:28.8V,Flooded:29.2V				
Float voltage	Gel/Sealed/Flooded:13.8V	Gel/Sealed/Flooded:27.6V				
Tracking efficiency	≤99.5%					
Charging conversion efficiency	≤98%					
Temperature compensation	-3mV/°C/2V(Default)					
Others						
No load consumption	≤1.2A	≤0.6A	≤0.6A	≤0.8A	≤0.8A	≤0.8A
Enclosure	IP30					
Operating temperature range	-20°C~50°C (full input and output with no derating)					
Dimensions(HxWxL)(mm)	386×300×126			444×300×126		518×310×168
Weight	7.3kg	7.3kg	7.4kg	8.5kg	9.2kg	14.9kg

Model	UP3000-M2142	UP3000-M6142	UP5000-M6342	UP5000-M8342	UP5000-M10342
Nominal battery voltage	48VDC				
Battery input voltage range	43.2~64VDC				
Inverter output					
Continuous output power	2400W	2400W	4000W	4000W	4000W
Output power 15min.	3000W	3000W	5000W	5000W	5000W
Output voltage range	220V±5%;230V(-10%~+5%)				
Output frequency	50/60±0.1Hz				
Output mode	Single phase				
Output wave	Pure Sine Wave				
Distortion THD	≤3%(24V or 48V resistive load)				
Max. efficiency	95%				
Utility charging					
Utility input voltage range	160VAC~280VAC(Working voltage range);170VAC~270VAC(Utility starting voltage range)				
Max. utility charge current	15A	15A	30A	30A	30A
Solar charging					
Max. PV open circuit voltage	150V(At minimum temperature) 138V(25°C)		200V(At minimum temperature) 180V(25°C)		
Max. PV input power	1040W	3000W	3000W	4000W	5000W
Max. PV charging current	20A	60A	60A	80A	100A
Equalization voltage	Sealed:58.4V,Flooded:59.2V				
Boost voltage	Gel:56.8V,Sealed:57.6V,Flooded:58.4V				
Float voltage	Gel/Sealed/Flooded:55.2V				
Tracking efficiency	≤99.5%				
Charging conversion efficiency	≤98%				
Temperature compensation	-3mV/°C/2V(Default)				
Others					
No load consumption	≤0.6A	≤0.6A	≤0.8A	≤0.8A	≤0.8A
Enclosure	IP30				
Operating temperature range	-20°C~50°C (full input and output with no derating)				
Dimensions(HxWxL)(mm)	444×300×126	518×310×168	605×315×178		
Weight	7.3kg	14.7kg	16.6kg	17.5kg	17.8kg



UPower-Hi Inverter/Charger

2000W-5000W,24/48VDC

Overview:

UPower-Hi series is an inverter charger that supports diversified energy management modes on solar/utility/generator charging, and utility/inverter power supply to the AC loads. To maximize solar energy utilization, users can choose energy sources according to actual needs and flexibly take the utility as a supplement. This inverter charger can raise the system's power supply guarantee rate, which is suitable for solar energy, utility/oil generator hybrid systems. It aims to provide users with high-quality, high-stability, and high-reliability electrical energy.

Features:

- *Supports the battery mode or non-battery mode
- *Surge current and reverse connection protections to support the lithium battery system perfectly
- *Three charging modes: Solar only, Solar priority, Utility & Solar
- *Two AC output modes: Utility priority and Inverter priority
- *High tracking efficiency of MPPT no less than 99.5%
- *PFC technology which achieves a high power factor of AC to DC charging and reduces the usage of power grid capacity
- *Advanced SPWM technology and pure sine wave output
- *Configurable battery charging current and discharging current
- *Configurable grid charging current
- *Self-learning SOC function
- *4.2 inch LCD to monitor and modify system parameters
- *Optional WiFi or GPRS Remote control via the RS485 isolated communication port
- *BMS-Link port and optional BMS-Link communication protocol module

Output:220VAC/230VAC

Item	UP2000-HM6022	UP3000-HM10022	UP3000-HM5042	UP5000-HM8042
Rated battery voltage	24VDC		48VDC	
Battery input voltage	21.6~32VDC		43.2~64VDC	
Max. battery charging current	60A	100A	50A	80A
Inverter output				
Continuous output power	2000W	3000W	3000W	5000W
Max. surge power(3S)	4000W	6000W	6000W	8000W
Output voltage range	220VAC(-6%~+3%), 230VAC(-10%~+3%)			
Output frequency	50/60±0.2%			
Output wave	Pure Sine Wave			
Load power factor	0.2-1(Load VA ≤ Continuous output power)			
Distortion THD	THD≤3%(Resistive load)			
80% rated output efficiency	92%	92%	92%	92%
Max. Rated output efficiency	91%	91%	90%	91%
Max. output efficiency	93%	93%	93%	93%
Switch time	10ms(Switch from the utility output to the inverter output), 15ms(Switch from the inverter output to the utility output)			
Utility charging				
Utility input voltage	176VAC~264VAC (Default), 90VAC~280VAC(Programmable)			
Utility input frequency	40~65Hz			
Max. utility charge current	60A(When the Utility input voltage is 90VAC~180VAC, the Max. utility charge current is 30A)	80A(When the Utility input voltage is 90VAC~180VAC, the Max. utility charge current is 40A)	40A(When the Utility input voltage is 90VAC~180VAC, the Max. utility charge current is 20A)	60A(When the Utility input voltage is 90VAC~180VAC, the Max. utility charge current is 30A)

Item	UP2000-HM6022	UP3000-HM10022	UP3000-HM5042	UP5000-HM8042
Solar charging				
Max. PV open circuit voltage	450V(At minimum temperature) 395V(25°C)			500V(At minimum temperature) 440V(25°C)
MPPT voltage range	80~350V			120~400V
Max. PV input power	2500W	4000W	4000W	4000W
	(Note: For the curve of Max. PV input power Vs. PV open-circuit voltage, see chapter Appendix 1 for details.)			
Max. PV charging power	1725W	2875W	2875W	4000W
Max. PV charging current	60A	100A	50A	80A
Equalize charging voltage	29.2V(AGM default)		58.4V(AGM default)	
Boost charging voltage	28.8V(AGM default)		57.6V(AGM default)	
Float charging voltage	27.6V(AGM default)		55.2V(AGM default)	
Low voltage disconnect voltage	21.6V(AGM default)		43.2V(AGM default)	
Tracking efficiency	≥99.5%			
Temp. compensate coefficient	-3mV/°C/2V(Default)			
General				
Surge current	50A	60A	56A	95A
Zero load consumption	<1.8A		<1.2A	
	(without PV and utility connection, turn on the load output)			
Standby current	<1.2A		<0.7A	
	(without PV and utility connection, turn off the load output)			
Dimension(H x W x D)	607.5x381.6x127mm	642.5x381.6x149mm	607.5x381.6x149mm	642.5x381.6x149mm
Net Weight	15kg	19kg	18kg	19kg
Enclosure	IP30			
Relative humidity	< 95% (N.C.)			
Environment temperature	-20°C~50°C			

Output:110VAC/120VAC

Item	UP2000-HM6021	UP3000-HM10021	UP3000-HM5041	UP3000-HM8041
Rated battery voltage	24VDC		48VDC	
Battery input voltage	21.6~32VDC		43.2~64VDC	
Max. battery charging current	60A	100A	50A	80A
Inverter output				
Continuous output power	2000W	3000W	3000W	3000W
Max. surge power(3S)	4000W	6000W	6000W	6000W
Output voltage range	110VAC(-3%~+3%), 120VAC(-10%~+3%)			
Output frequency	50/60±0.2%			
Output wave	Pure Sine Wave			
Load power factor	0.2-1(Load VA ≤ Continuous output power)			
Distortion THD	THD≤5%(Resistive load)			
80% rated output efficiency	89%	90%	91%	91%
Max. Rated output efficiency	88%	88%	90%	90%
Max. output efficiency	90%	92%	92%	92%
Switch time	10ms(Switch from the utility output to the inverter output), 15ms(Switch from the inverter output to the utility output)			
Utility charging				
Utility input voltage	88VAC~132VAC (Default), 80VAC~140VAC(Programmable)			
Utility input frequency	40~65Hz			
Max. utility charge current	60A	80A	40A	40A

Item	UP2000-HM6021	UP3000-HM10021	UP3000-HM5041	UP3000-HM8041
Solar charging				
Max. PV open circuit voltage	250V(At minimum temperature), 220V(25°C)			
MPPT voltage range	60~200V			
Max. PV input power	2000W	3000W	3000W	4000W
Max. PV charging power	1725W	2875W	2875W	4000W
Max. PV charging current	60A	100A	50A	80A
Equalize charging voltage	29.2V(AGM default)		58.4V(AGM default)	
Boost charging voltage	28.8V(AGM default)		57.6V(AGM default)	
Float charging voltage	27.6V(AGM default)		55.2V(AGM default)	
Low voltage disconnect voltage	21.6V(AGM default)		43.2V(AGM default)	
Tracking efficiency	≥99.5%			
Temp. compensate coefficient	-3mV/°C/2V(Default)			
General				
Surge current	50A	60A	56A	95A
Zero load consumption	<1.6A	<1.6A	<1.2A	<0.8A
	(without PV and utility connection, turn on the load output)			
Standby current	<1.2A	<1.0A	<0.7A	<0.6A
	(without PV and utility connection, turn off the load output)			
Dimension(H x W x D)	607.5x381.6x127mm	642.5x381.6x149mm	642.5x381.6x149mm	642.5x381.6x149mm
Net Weight	15kg	19kg	19kg	19kg
Enclosure	IP30			
Relative humidity	< 95% (N.C.)			
Environment temperature	-20°C~50°C			



PC Communication Cable

CC-USB-RS485-150U



Remote Meter

MT91
Input power:5VDC
Dimensions:100×19.4mm
Weight 65g



Remote Meter

MT75
Input power:5VDC
Dimensions:193×95×48mm
Weight:290g



Extension Module

RS485-1M2S
Input voltage:5VDC
Dimensions:121×88×27.5mm
Weight:121.8g



Bluetooth Module

EPEVER BLE RJ45 A
Input power:5V±0.5V
Dimensions:51×67×24.5mm
Weight 37g



WiFi Serial Server

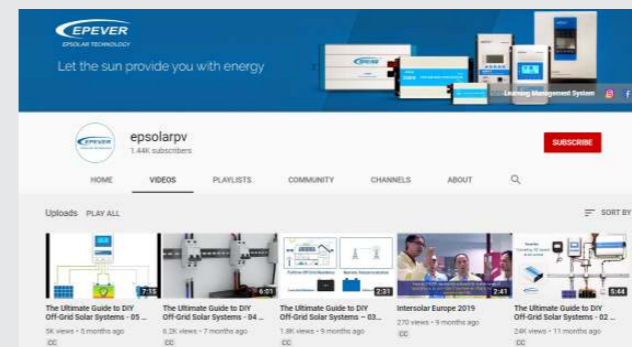
EPEVER WIFI 2.4G RJ45 A
Input power:5VDC
Dimensions:66.24 × 51.28 × 23.76mm
Weight:37g



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