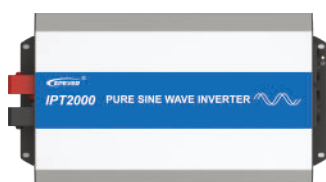


Overview

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, the IPT 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



Parameter	IPT350-12		IPT350-22		IPT500-12		IPT500-22		IPT1000-12		IPT1000-22		IPT1000-42	
Continuous output power	350W@35°C@ Rated input voltage				500W@35°C@Rated input voltage				1000W@35°C@Rated input voltage					
Surge power	700W@5S				1000W@5S				2000W@5S					
Surge current when power on①	< 30A				< 50A				< 100A				< 35A	
Output voltage	220VAC (±3%); 230VAC (-6%~+3%); 240VAC (-9%~+3%)								220VAC (±3%); 230VAC (-6%~+3%); 240VAC (-9%~+3%)				220VAC/230VAC/240VAC(±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 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 efficiency②	> 89.0%		> 90.0%		> 89.5%		> 91.5%		> 89.0%		> 90.0%		> 92.0%	
Max. output efficiency③	> 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% (40% loads)	
Idle current	< 0.15A		< 0.10A		< 0.15A		< 0.10A		< 0.2A		< 0.15A		< 0.1A	
No-load current	< 0.9A		< 0.4A		< 0.9A		< 0.6A		< 1.1A		< 0.9A		< 0.4A	
RS485 com. port	5VDC/200mA								5VDC/200mA					
Mechanical parameters														
Input terminal	M6								M6					
Dimension (L x W x H)	229 × 160 × 73mm				286 × 160 × 73mm				371 × 228 × 118mm				332×228×118mm	
Mounting size (L x W)	205 × 75mm				262 × 75mm				345 × 145mm				306×145mm	
Mounting hole size	Φ5mm				Φ5mm				Φ6mm				Φ6mm	
Net Weight	1.5kg				2.3kg				4.8kg				4.5Kg	
AC output Interface*	 T-Terminal  C China  E Europe  A Australia  UK UK  F France													

① The "Surge current when power on" parameter is for the customized products with an anti-surge function (whose product model has "S").

For other products, the actual surge current prevails.

② It means the rated output efficiency when the load power equals the "continuous output power" under the rated DC input voltage.

③ It means the max. output efficiency when the inverter is connected with different loads under the rated DC input voltage.

Parameter	IPT1500-12		IPT1500-22		IPT1500-42		IPT2000-12		IPT2000-22		IPT2000-42	
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 on①	< 100A		< 100A		< 50A		< 100A		< 100A		< 50A	
Output voltage	220VAC (±3%); 230VAC (-6%~+3%); 240VAC (-9%~+3%)						220VAC (±3%); 230VAC (-6%~+3%); 240VAC (-9%~+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 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 efficiency②	> 89.0%		> 90.0%		> 92.5%		> 88.0%		> 90.0%		> 92.5%	
Max. output efficiency③	> 93.0% (30% loads)		> 93.5% (30% loads)		> 94.0% (30% loads)		> 94.0% (30% loads)		> 93.0% (30% loads)		> 94.5% (30% loads)	
Idle current	< 0.2A		< 0.15A		< 0.1A		< 0.2A		< 0.15A		< 0.1A	
No-load current	< 1.2A		< 0.9A		< 0.5A		< 1.2A		< 1.0A		< 0.5A	
RS485 com. port	5VDC/200mA						5VDC/200mA					
Mechanical parameters												
Input terminal	M6		M6		M6		M10		M6			
Dimension (L x W x H)	387 × 228 × 118mm		387 × 228 × 118mm		387 × 228 × 118mm		420 × 228 × 118mm		421 × 228 × 118mm			
Mounting size (L x W)	361 × 145mm		361 × 145mm		361 × 145mm		395 × 145mm		395 × 145mm			
Mounting hole size	Φ6mm		Φ6mm		Φ6mm		Φ6mm		Φ6mm			
Net Weight	6.0kg		5.5kg		5.2kg		7.0kg		5.8kg			
AC output Interface*	T-Terminal C China E Europe A Australia UK UK F France											

① The "Surge current when power on" parameter is for the customized products with an anti-surge function (whose product model has "S").

For other products, the actual surge current prevails.

② It means the rated output efficiency when the load power equals the "continuous output power" under the rated DC input voltage.

③ It means the max. output efficiency when the inverter is connected with different loads under the rated DC input voltage.

Technical Specifications

Parameter	IPT3000-12	IPT3000-22	IPT3000-42	IPT4000-42	IPT5000-42	
Continuous output power	3000W@35°C@Rated input voltage			4000W@35°C@Rated input voltage	5000W@35°C@Rated input voltage	
Surge power	6000W@5S			8000W@5S		
Surge current when power on①	< 100A	< 100A	< 65A	< 65A		
Output voltage	220VAC (±3%); 230VAC (-6%~+3%); 240VAC (-9%~+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 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 ~ 64.0VDC		
Rated output efficiency②	> 87.0%	> 90.0%	> 92.5%	> 91.0%		
Max. output efficiency③	> 94.0% (30% loads)	> 94.0% (30% loads)	> 94.5% (30% loads)	> 94.0%(30% loads)		
Idle current	< 0.2A	< 0.15A	< 0.1A	< 0.1A	< 0.1A	
No-load current	< 1.6A	< 1.0A	< 0.5A	< 0.6A	< 0.8A	
RS485 com. port	5VDC/200mA					
Mechanical parameters						
Input terminal	M10	M6	M6	M6	M6	
Dimension (L x W x H)	557 × 228 × 118mm	521 × 270 × 143mm	491 × 228 × 118mm	516 × 228 × 118mm	531 × 228 × 118mm	
Mounting size (L x W)	532 × 145mm	495 × 145mm	465 × 145mm	490 × 145mm	505 × 145mm	
Mounting hole size	Φ6mm					
Net Weight	9.5kg	8.5kg	6.8kg	7.8kg	8.5kg	
AC output Interface*	 T-Terminal	 C China	 E Europe	 A Australia	 UK UK	 F France

① The "Surge current when power on" parameter is for the customized products with an anti-surge function (whose product model has "S").

For other products, the actual surge current prevails.

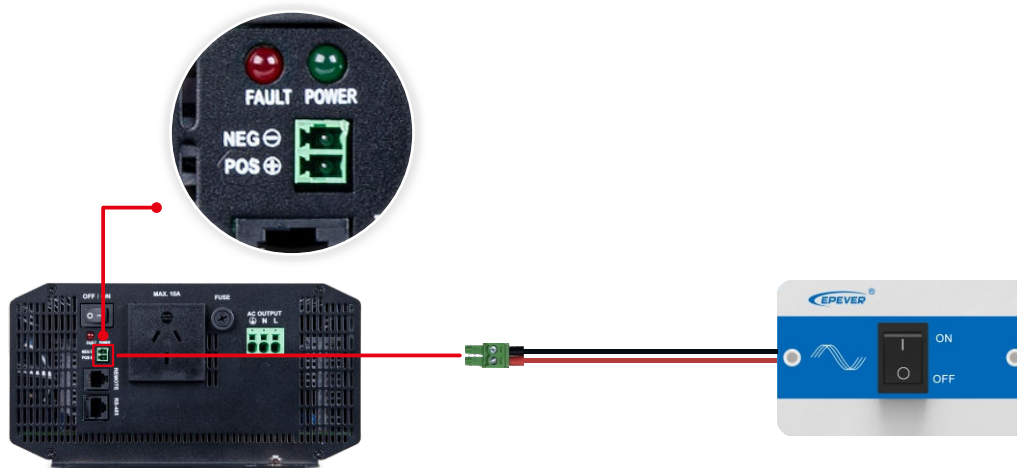
② It means the rated output efficiency when the load power equals the "continuous output power" under the rated DC input voltage.

③ It means the max. output efficiency when the inverter is connected with different loads under the rated DC input voltage.

Environment parameters		Certification	
Environment temperature	-20°C ~ +60°C (Refer to the Derating Curve)	Safety	EN/IEC62109-1, UL458 (Products with 12/24V input voltage support), CSA C22.2#107.1
Storage temperature	-35°C ~ +70°C	EMC(Electromagnetic compatibility)	EN61000-6-2/EN61000-6-4,FCC 47 CFR Part 15, Subpart A
Relative humidity	≤ 95% (N.C.)	RoHS	IEC62321-3-1
Enclosure	IP20	-	
Altitude	< 5000m (If the altitude exceeds 1000 meters, the rated power will be reduced according to IEC62040.)		

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 IPT 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.