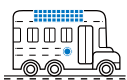
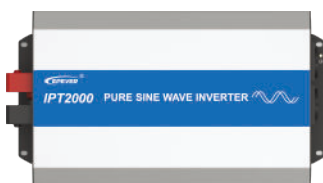


Overview

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



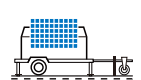
Solar Car









Solar Home



Solar Boat



Solar Power Generator







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 on ^①	< 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 efficiency ^②	> 89.0%	> 90.0%	> 89.5%	> 91.5%	> 89.0%	> 90.0%	> 92.0%
Max. output efficiency ^③	> 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 on ^①	< 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 efficiency ^②	> 89.0%			> 90.0%			> 92.5%			> 88.0%			> 90.0%			> 92.5%					
Max. output efficiency ^③	> 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

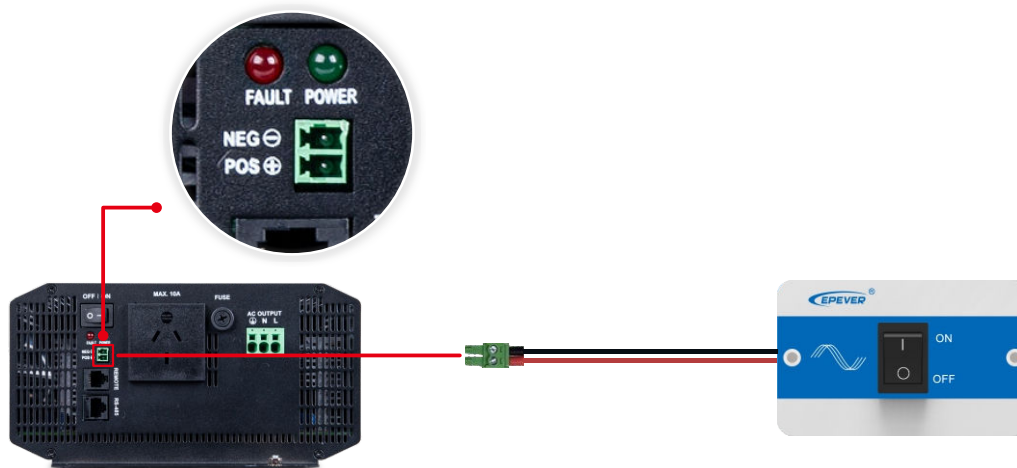
Parameter	IPT3000-12	IPT3000-22	IPT3000-42	IPT4000-42	IPT5000-42	
Continuous output power	3000W@35°C@Rated input voltage			4000W@35°C@Rated input voltage	5000W@35°C@Rated input voltage	
Surge power	6000W@5S			8000W@5S		
Surge current when power on ^①	< 100A	< 100A	< 65A	< 65A		
Output voltage	220VAC (±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 efficiency ^②	> 87.0%	> 90.0%	> 92.5%	> 91.0%		
Max. output efficiency ^③	> 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.