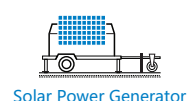
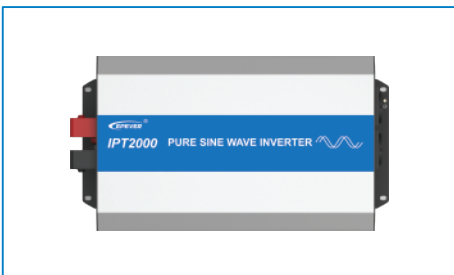


Overview



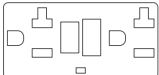
The IPT series, a high-frequency sine wave inverter, adopts a fully digital intelligent design and voltage-current dual closed-loop control algorithm. Featured with fast response, high conversion efficiency, low Total Harmonic Distortion (THD), and high reliability running, this series can be widely 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


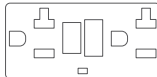


Technical Specifications

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 power ≤ Continuous output power)				0.2 ~ 1 (Load power ≤ Continuous output power)				
Rated input voltage	12VDC	24VDC	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	10.8 ~ 16.0VDC	21.6 ~ 32.0VDC	43.2 ~ 64.0VDC
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 × 160 × 73mm		286 × 160 × 73mm		371 × 228 × 118mm		387 × 228 × 118mm		
Mounting size	205 × 75mm		262 × 75mm		345 × 145mm		361 × 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.)								
AC output Interface*			 NEMA				North America (GFCI)		

*For specific product sockets, please refer to the product manual

Technical Specifications

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 power ≤ Continuous output power)			0.2 ~ 1 (Load power ≤ 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 118mm	421 x 228 x 118mm		550 x 270 x 143mm	521 x 270 x 143mm	516 x 228 x 118mm	521 x 270 x 143mm
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.)						
AC output Interface*							

*For specific product sockets, please refer to the product manual