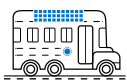
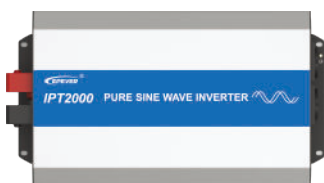


Overview

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



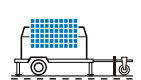
Solar Car









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.

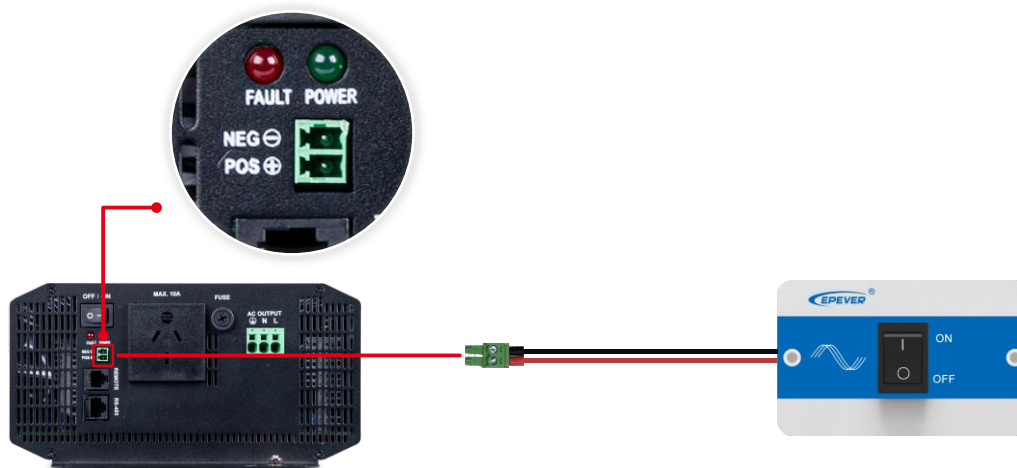
② It means the rated output efficiency when the load power equals the "continuous output power" under the rated DC input voltage.

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.