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SOLAR INVERTER OFF GRID

5000VA

Solar inverters are responsible for transforming DC to AC power from a source such as a solar panel in a home, office, store, RV, or boat setting. Once the inverter converts the power to AC it can be used to power typical appliances, gadgets and lights. When buying an inverter, ensure the inverter wattage matches that of your system. Truelite off-grid solar power inverter adopts Digital Intelligent Control and complete high frequency conversion topology, with high reliability and strong anti-interference. The rating input voltage is 24V/48V and rated power rating is 500W to 10KW. It is widely used in the solar power supply system such as communications, transportation, islands, border, rural, pastoral areas and so on. Inbuilt MPPT charge controller helps to maximum utilization of solar energy even in cloudy condition.

Features

- Multi-Setting.
- High Reliability.
- Double CPU Digital Control.
- Isolated and Pure Sine Wave Technique.
- LCD + LED Display Mode.
- Wide Input Range.
- High-Speed Synchronous Conversion.
- Friendly Alarm System.
- Online Protection Function.
- Intelligent No-Load Auto Shutdown Technology.
- Off grid from 100W to 3000W.
- Inbuilt MPPT charge controller.
- Charge current from 10A-60A adjustable.
- Wall mount and tower mount.

Specifications

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|------------------------|-----------------------|--|
| Model | | GF5000 |
| Capacity | | 5000VA |
| Power | | 5000W |
| Battery voltage/ range | | 192Vdc |
| Working mode | | PV(Photovoltaic priority) / AC(AC priority) Optional |
| PV | MPPT voltage range | 192Vdc ~ 400Vdc |
| | Max. charge current | 10A/20A/30A/60A |
| | Conversion efficiency | ≥ 98 % |
| Display | Panel indicator light | LCD + LED display |
| Mains status(Optional) | Input voltage range | 100V/110V/120V/220V/230V/240V ± 25%(Customized) |
| | Input Frequency range | 45-65 Hz(Automatically transfer to inverter power when over frequency) |
| | Output voltage range | 100V/110V/120V/220V/230V/240V ± 10% |
| | Input PF.(AC/DC) | 98% |
| | charge current | 15Amax(PV Charging current≤Rated 25% battery≤90%) |
| | Efficiency | Mains mode≥ 96% |
| | Mains overload | 110% 60s transfer to bypass power; 120% transfer to bypass power supply after 30s;automatically recover when decrease load |
| | Short circuit | Input fuse |

| | | |
|------------------------------------|---------------------------|---|
| Inverter output | Inverter output voltage | 100V/110V/120V/220V/230V/240V \pm 5% |
| | Output frequency | 50 Hz / 60Hz \pm 1% frequency adaptive |
| | Output power factor | 0.8 |
| | Wave form distortion | Linear load \leq 5% |
| | PV-AC transfer time | 5ms typical value Max.8 ms |
| | Max.Efficiency | 84.50% |
| | Inverter overload | 110% shutdown at 60s,120% shutdown at 5s |
| | No-load off (Optional) | Load < 5% The system automatically shut down at 1MIN, transfer to bypass power supply |
| | Short circuit | Systems automatically shut down |
| Alarm | Mains abnormal | 1/4S; automatic sound elimination after 40s |
| | Low battery | 1 / 0.2S |
| | Overload | 1 / 1S |
| Communication interface (Optional) | | RS232 / USB / SNMP(Setup available for regular start/shutoff) |
| Others | Output sockets | Universal sockets 3PCS / customized |
| | Surge protection | Optional |
| | EMC | EN62040-2:2006;EA61000-3-2:2006; EA61000-3-3:2008 |
| | IP class | IP20 |
| | Ambient temperature | 0°C ~ 40°C |
| | Ambient humidity | 10% ~ 90%(Non Condensed) |
| | Noise | \leq 50dB |

Applications

Truelite offers wide range of solar off grid inverters suited for residential and commercial PV application.

Ordering Code

TLESOI-MP05000-IH