



www.truelite.us

SOLAR INVERTER OFF GRID

6000VA

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

Capacity		6000VA
Power		6000W
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 ± 5%
	Output frequency	50 Hz / 60Hz ± 1% frequency adaptive
	Output power factor	0.8
	Wave form distortion	Linear load ≤ 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	≤50dB

Applications

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

Ordering Code

TLESOI-MP06000-IH