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SOLAR INVERTER OFF GRID

3000VA

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, and 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		3000VA
Power		3000W
Battery voltage/ range		48Vdc/42-60Vdc
Working mode		PV(Photovoltaic priority) / AC(AC priority) Optional
PV	MPPT voltage range	48 Vdc ~ 90Vdc
	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	
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
	Dimension	Hanging	380*195*478
	D*W*H(mm)	Tower	475×200×337
	Packing dimension(mm)	Hanging	455*255*522
		Tower	592×320×462
	Weight(kg)		27
	Packing weight(kg)		28.2

Applications

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

Ordering Code

TLES01-MP03000-IH