



CTG EYIL

DataSheet Hybrid Inverter 24V 3.3kW

HYBRID INVERTER

HYBRID INVERTERS
For Home & Industrial



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The **CTG 24V 3.3kW Hybrid Inverter** is designed for residential and commercial solar applications, offering efficient power conversion, stable performance, and reliable operation.

This inverter seamlessly integrates solar panels, batteries, and the grid to deliver uninterrupted power. Built with advanced **MPPT technology** and an intelligent control system, it ensures optimal energy utilization and long service life.

The **CTG 3.3kW Hybrid Inverter** ensures reliable operation through its advanced protection and control features, including safeguards against over-voltage, under-voltage, overload, and short-circuit conditions—delivering safe, stable, and efficient power for solar and hybrid energy systems.



Features:

- 3.3kW Pure Sine Wave Output
- High Efficiency MPPT Solar Charger
- Compact and Wall-Mount Design
- LCD Display with Easy Configuration
- Comprehensive Protection System
- Hybrid Functionality – supports solar, battery, and grid input
- Wi-Fi / Mobile Monitoring Support



High
Efficiency



Easy
Installation



Mobile
Monitoring

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ITEM	SPECIFICATION
Rated Power	3300W
PV Input	
Max PV Input Power	5000W
MPPT Tracking Voltage Range	40Vdc – 450Vdc
Rated Voltage	240Vdc
Max PV Input Voltage (VOC) (at the lowest temperature)	500Vdc
Max PV Input Current	18A
MPPT Tracking Channels (Input Routed)	1 Routed
Battery & Charging	
Battery type	Lead acid Battey / Lithium Battery
Rated Battery Voltage	24Vdc
Battery Voltage Range	21 – 30Vdc (default)
Max PV Charging Current	120A
Max AC Charging Current	80A
Max Charging Current	120A
Off-Grid Operations	
AC Input	
Rated Input Voltage	230V(220V or 240 Can be set)
Mains Input Voltage Range	187Vac – 264Vac / 120Vac – 280Vac (Can be set)
Rated Input Frequency	50Hz / 60Hz
Input Frequency Range	45Hz-55Hz(50Hz), 55Hz-65Hz(60Hz)
AC Output	
Rated Output Voltage	230V(220V or 240 Can be set)
Output Voltage Accuracy	±2%
Rated Input Frequency	50Hz / 60Hz
Output Frequency Accuracy	±1%
Output Wave	Pure Sine Wave

ITEM	SPECIFICATION
Hybrid Operations	
AC Input	
Rated Input Voltage	230V(220V or 240 Can be set)
Mains input voltage range	187Vac - 264Vac
Rated frequency	50Hz / 60Hz
Input Frequency range	45Hz-55Hz(50Hz), 55Hz-65Hz(60Hz)
AC Output	
Rated output Voltage	230V(220V or 240 Can be set)
Output Current	14.3A
On-Grid Operations	
AC Output	
Rated Output Voltage	230V(220V or 240 Can be set)
Grid Voltage Range	167Vac - 264Vac
Rated Output Frequency	50Hz / 60Hz
Frequency Range	45Hz-55Hz(50Hz), 55Hz-65Hz(60Hz)
Rated Output Current	14.3A
Power Factor	>0.98 (Rated Power)
Regular Parameters	
Max Conversion Efficiency (Battery discharge)	94% (peak value)
No load loss (Battery discharge)	1% Rated Power (Typical value)
MPPT Tracking efficiency	≥99.9
Transfer time	10ms (Typical value)
Display	LCD + LED
Cooling Method	Cooling fan in intelligent control
Communication	RS485 / Mobile App(WIFI Monitoring or GPRS Monitoring)
Protection Degree	IP20
Installation	Wall-Mounted



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ITEM	SPECIFICATION
Protect	
Battery low voltage alarm	22Vdc (default value)
Battery low voltage protection	21Vdc (default value)
Anti-islanding protection	≤2S
Overload power protection	Automatic protection(battery mode), Circuit Breaker or Insurance (AC mode)
Output short circuit protection	Automatic protection(battery mode), Circuit Breaker or Insurance (AC mode)
Temperature protection	>90°C (turn off inverter and charging)
Environment	
Operating Temperature	-10°C - 50°C
Storage temperature	-15°C - 60°C
Noise	≤55db
Elevation	2000mm (More than derating)
Humidity	0% - 95%, No condensation
Dimensions and Weight	
Product Size (L*W*H in mm)	325*275*102
Package Size (L*W*H in mm)	400*330*167
N.W (kg)	5.5
G.W (kg)	6.5

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