

CPSPV18000/20000ETL

Grid-Tied Inverter

Transforms the Solar Energy
to Your Daily Life!



Dual
MPP Trackers

High
Efficiency

Three-Phase
Transformerless

Enclosure Rating
IP65

Metering/
Data Logging

Real-Time
LED/LCD Display

CyberPower Grid-Tied PV Inverter is designed to convert solar electric (photovoltaic or PV) power into utility-grade electricity that can be fed into commercial grid. The three-phase transformerless design not only demonstrates its market-leading safety performance but ensures users can be benefited from the maximum 98% conversion efficiency. With dual built-in MPP trackers, the algorithm creates a nearly-perfect 99.5% tracking efficiency to ensure maximum energy yields so that you won't miss a single drop on every solar power generated!

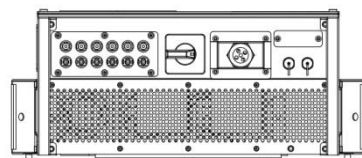
The sealed inverter section achieves enclosure rating IP65 for protection from water and dust damages so that makes it perfect for outdoor application regardless of any strict conditions. Through the multi-language LCD display, it could provide system status update and daily cumulative information including data logger, multi meter and energy record for better user experience and monitoring management.

APPLICATIONS

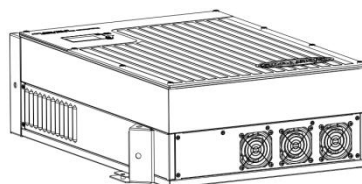
- Grid-tied PV System
- Residential / commercial Application

SERIES FEATURES

- High Efficiency up to 98%
- Europe Efficiency up to 97.5%
- Dual Independent MPP Trackers
- Three-Phase Transformerless Design
- Integrated DC Disconnect Switch
- Adjustable Reactive Power (0.8 Lag - 0.8 Lead)
- Wide PV Voltage Range (300-1000V)
- Complete LED / LCD indication for operating status
- Metering and Data Logging
- IP65 Compliant for Outdoor Application



Front



Back

Knock Detection Display



The LCD display is knock detected. To initiate the display, knock to turn on the background light. Operate by knocks to change the item displayed. The innovative front panel displays vital information including: wattage, voltage, frequency, status and events. Intuitive graphical with 10 years data-logger and real-time clock ensures a better user experience for monitoring.

TECHNICAL SPECIFICATION

Model	CPSPV18000ETL	CPSPV20000ETL
Solar input (DC)		
Maximum input voltage	1000 V	
Input MPPT voltage range	400 ~ 800 V	
Input operation voltage range	300 ~ 1000 V	
Maximum input current	23.0/23.0 A	26.0/ 26.0 A
Nominal input power	19440 W	21600 W
Efficiency MPP tracker	99.5%	99.5%
Number of MPPT trackers	2	
Number of string inputs (per MPPT)	3	
Grid output (AC)		
Mains output voltage range	184Vac to 275Vac (3/N/PE, 230V/400V)	
Maximum output current	28.6 A	32.0 A
Rated output power	18 KW	20 KW
Maximum apparent output power	18 KVA	20 KVA
Mains output frequency	50 / 60 Hz (-6Hz/+5Hz)	
Output power factor	0.8 over-excited ~ 0.8 under-excited	
Output current THD	Less than 3%	
Performance		
Maximum efficiency	98.0%	
European efficiency	97.5%	
Night time consumption	Less than 0.5 Watt	
Mechanical protection degree	IP65	
Topology	Transformerless	
Environment		
Operating temperature	-20°C to 60°C	
Storage temperature	-20°C to 70°C	
Relative humidity	0...95 % (non-condensing)	
Maximum operating altitude	2000m	
Cooling method	Smart cooling	
Other		
Dimensions (H × W × D) (mm)	740 × 570 × 235	
Weight (kg)	60	
Communication	RS232, RS485	
Standard	Safety: IEC 62019	
	Grid interface: VDE0126-1-1	
	EMC: EN61000-6-2 / EN61000-6-3 / EN61000-3-2 / EN61000-3-3 / EN61000-3-11 / EN61000-3-12	
Warranty	5 years standard (option over 10 years)	

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