

CPSPV4000/5000ETL

## Grid-Tied Inverter

Transforms the Solar Energy  
to Your Daily Life!



Dual  
MPP Trackers

Transformerless  
Design

Enclosure Rating  
IP65

MPPT Tracker

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 or used by local/off-grid electrical network. The transformerless design not only demonstrates its market-leading safety performance but ensures users can be benefited from the maximum 97.8% conversion efficiency. With the built-in MPPT tracker, the algorithm creates a nearly-perfect 99.9% tracking efficiency to ensure maximum energy yields so that you won't miss a single drop on every solar power generated!

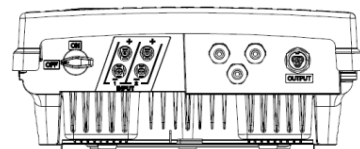
The sealed inverter section achieves enclosure rating IP65 for protection from water and dust damages so that makes it perfect for outdoor application regardless of any strict conditions. Through the multi-language LCD display, it could provide system status update and daily cumulative information including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

## APPLICATIONS

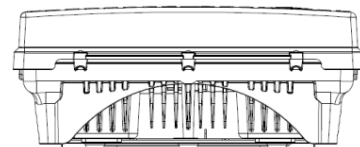
- Grid-tied PV System
- Residential / commercial Application

## SERIES FEATURES

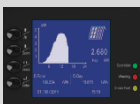
- High Efficiency up to 97.8%
- Maximum Power Point Tracking Technology
- Transformerless Design
- Natural Cooling Convection
- Adjustable Reactive Power(0.8 Lag - 0.8 Lead)
- Wide Operation Range
- Complete LED / LCD indication for operating status
- Metering and Data Logging
- IP65 Compliant for Outdoor Application



Front



Back



### Multi-language LCD Display

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	CPSPV4000ETL	CPSPV5000ETL
<b>Solar input (DC)</b>		
Maximum input voltage	900 V	
Input MPPT voltage range	310 ~750 V	
Input operation voltage range	250 ~900 V	
Maximum input current	13.5 A	17 A
Nominal input power	4320 W	5400 W
Efficiency MPP tracker (static/dynamic)	99.9% / 99.8%	
Number of MPPT trackers	1	
Number of string inputs	2	
<b>Grid output (AC)</b>		
Mains output voltage range	184Vac to 276Vac single phase (According to country setting)	
Maximum output current	20 A	24 A
Rated output power	4000 W	5000 W/4600W (Germany)
Maximum apparent output power	4150 VA	5150 VA/4600VA (Germany)
Mains output frequency	50 / 60 Hz (± 5%)	
Output power factor	0.8 over-excited ~ 0.8 under-excited	
Output current THD	Less than 3%	
<b>Performance</b>		
Maximum efficiency	97.60%	97.80%
European efficiency	97.00%	97.20%
Power feed (start-up) power	Less than 10 Watt	
Night time consumption	Less than 1 Watt	
Mechanical protection degree	IP65 (AC connector IP67)	
Topology	Transformer-less	
<b>Environment</b>		
Operating temperature	-20°C to 60°C	
Storage temperature	-20°C to 70°C	
Relative humidity	Maximum 100% (non-condensing)	
Maximum operating altitude	2000m	
Cooling method	Natural convection	
<b>Other</b>		
Display	Multi-language graphical display	
Communication	RS485, Ethernet (optional), WIFI (optional)	
Data log	10 years data-logger	
Standard	Safety: IEC 62109	
	Grid interface: VDE-AR-N 4105 / VDE0126-1 / UTE-C15-712-1	
	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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