

# GWL/ Power Group Technology Solutions – Stay Powered for the Future

GWL/Power Specification Document



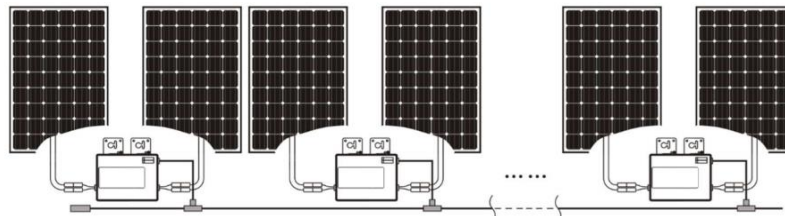
## GWL/Power Solar Microinverter Grid-tied DC/AC 500W, 230V CE

### YC500T



#### Description

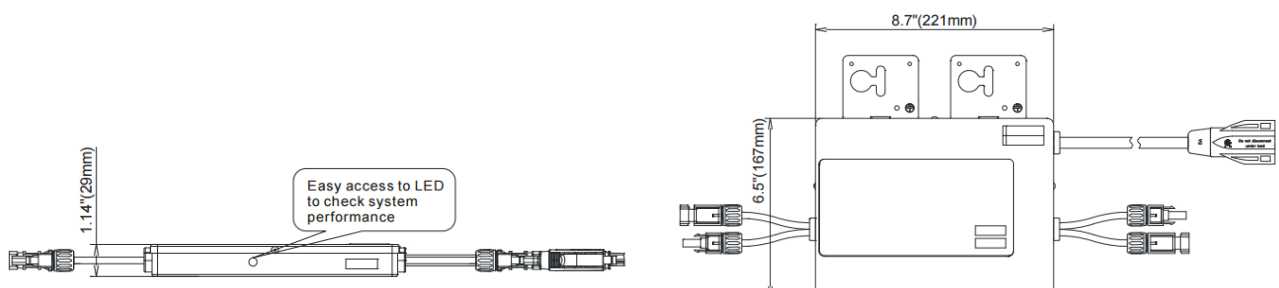
YC500T is a grid-tied microinverter with intelligent networking and monitoring systems to ensure maximum efficiency. Highly dependable and cost effective, the YC500T handles up to 310W modules with negligible clipping, delivering 250W AC per module with dual MPPT. Half the inverters and half the installation means real cost savings for residential and commercial customers.



#### Features:

- Single unit connects one or two solar modules
- Maximum output power 500W
- Individual MPPT for each module
- Rated up to 320W

#### Dimensions:



## Specifications:

<b>Input Data (DC)</b>	
Recommended PV Module Power (STC)Range	180Wp-310Wp / 60 and 72-cell PV modules
MPPT Voltage Range	22V-45V
Operation Voltage Range	16V-52V
Maximum Input Voltage	55V
Maximum Input Current	10.5A x2
Maximum DC Short Circuit Current	15A
<b>Output Data (AC)</b>	
Maximum Output Power	500W
Nominal Output Voltage	230V
Nominal Output Current	2,17A
Nominal Output Frequency	50Hz
Power Factor	>0.99
Total Harmonic Distortion	<3%
Maximum Units per Branch (20 A)	7 / 14 modules
<b>Efficiency</b>	
Max. Inverter Efficiency	95,5%
European Efficiency	94,16%
Nominal MPPT efficiency	99,5%
Night Power Consumption	120mW
<b>Mechanical Data</b>	
Operating Ambient Temperature Range	-40 °C to +65 °C
Storage Temperature Range	-40 °C to +85 °C
Dimensions (W x H x D)	221mm X 167mm X 29mm
Weight	2.5kg
AC Cable Maximum Current	20A
Connector type	MC4
Enclosure Rating	IP67
Cooling	Natural Convection - No fans
<b>Features &amp; Compliance</b>	
Communication (Inverter to ECU)	Power line communication
Monitoring	Via EMA* software
Transformer design	High frequency transformers, galvanically isolated
Safety and EMC Compliance	EN 62109-1; EN 62109-2; EN61000-6-1; EN61000-6-2; E N61000-6-3; EN61000-6-4;
Grid Connection Compliance	EN 50438:2013; VDE126-1-1/A1; VDE-AR-N 4105; G83 issue 2
Warranty	10 years standard; 20 years optional

\*Energy Management Analysis

<http://www.ev-power.eu>

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