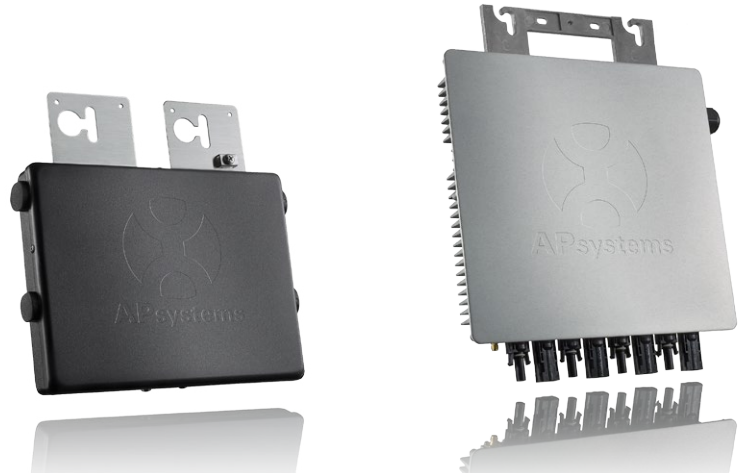


## YC500 & YC1000 Datasheet



	YC500I*	YC1000-3
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### INPUT DATA (DC)

Recommended PV Module Power Range (STC)	180Wp-310Wp	Up to 310Wp (4 Module Configuration) Up to 360Wp (3 Module Configuration)
MPPT Voltage Range	22-45V	16-55V
Operational Voltage Range	16V-52V	16V-55V
Maximum Input Voltage	55V	60V
Maximum Input Current	10.5A X 2	14.8A x 4

### OUTPUT DATA (AC)

Maximum Output Power	530W	1000W
Grid Type	Single phase 230V or 3 phase 230/400V - 50Hz	3 phase 230/400V - 50Hz
Nominal Output Voltage	230V - 50Hz	230/400V - 50Hz
Nominal Output Current	2.17A	1.3A X 3
Power Factor	>0.99	>0.99
Total Harmonic Distortion	<3%	<3%
Maximum Units per Branch (20A)	7 / 14 Modules	12 for 20A X 3 Breaker / 48 Modules

### EFFICIENCY

Max Inverter efficiency	95.5%	95%
CEC Weighted Efficiency	95%	94.5%
Nominal MPPT efficiency	99.5%	99.9%

### MECHANICAL DATA

Operating Ambient temperature range	-40°C to +65°C (-40°F to +149°F)	-40°C to + 65°C (-40°F to +149°F)
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)	-40°C to + 85°C (-40°F to +185°F)
Dimensions (W x H x D) mm	221mm x 167mm x 29mm	259mm X 242mm X 36mm
Weight	2.5kg (5.5lbs)	3.8kg (8.4lbs)
Enclosure rating	IP67	IP67
Cooling	Natural Convection - No Fans	Natural Convection - No Fans
Connector type	MC4	MC4

### FEATURES

Communication (Inverter to ECU)	Power line (PLC)	ZigBee (wireless)
Monitoring	Module Level via EMA** software	Module Level via EMA** software
Transformer Design	HF transformers, galvanically isolated	HF transformers, galvanically isolated
Safety and EMC Compliance	EN62109-1, EN62109-2, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4	EN62109-1, EN62109-2, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4
Grid Connection Compliance	EN50438, VDE126-1-1/A1, G83/issue 2, VDE-AR-N 4105	EN50438
Warranty	10 years standard, extendable to 20 years	10 years standard, extendable to 20 years

\* Preloaded grid profile YC500I available for G83 issue 2, VDE126-1-1/A1 and VDE-AR N 4105

\*\* Energy Management Analysis

Specifications subject to change without notice - please ensure you are using the most recent update found at [www.APsystems.com](http://www.APsystems.com)

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