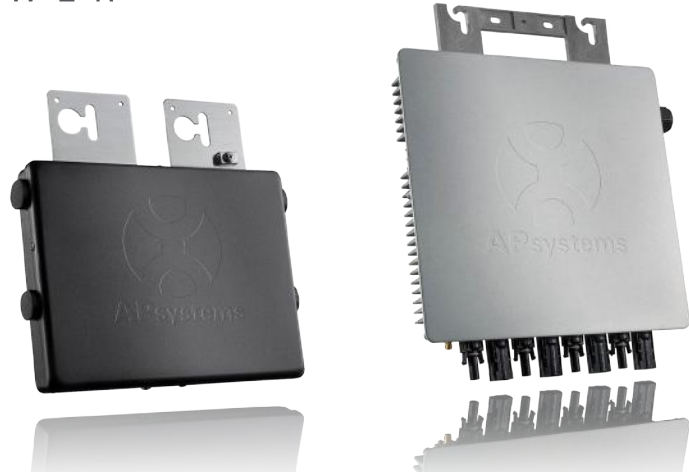


APmicro™ SERIES



YC500 SERIES:

YC500A / YC500i

YC1000 SERIES:

YC1000-3-208 / YC1000-3-480

INPUT DATA (DC)

MPPT Voltage Range	22-45V	16-55V
Maximum Input Voltage	55V	60V
Maximum Input Current	12A X 2	14.8A x 4
Startup Voltage	22V	22V

OUTPUT DATA (AC)

	240V	120Y / 208V	277Y/480V	120Y/208V
Maximum Output Power YC500A	500W	500W	—	—
Maximum Output Power YC500i	548W	548W	—	—
Maximum Output Power YC1000	—	—	900W	900W
Grid Type	Single phase	3 phase	3 phase	3 phase
Nominal Output Current	2.08A	2.40A	1.08Ax3	2.50Ax3
Peak Output Current (YC500i)	2.62A	2.28A	—	—
Nominal Output Voltage	211V-264V*	183V-229V*	277Yx3	120Yx3
Nominal Output Frequency	60Hz/59.3-60.5Hz*	60Hz/59.3-60.5Hz*	60Hz/59.3-60.5Hz	60Hz/59.3-60.5Hz*
Power Factor	>0.99	>0.99	>0.99	>0.99
Total Harmonic Distortion	<3%	<3%	<3%	<3%
Maximum Units per Branch	7 per 20A, 2 pole breaker	6 per 20A, 2 pole breaker	11 per 15A, 3 pole breaker	4 per 15A, 3 pole breaker

EFFICIENCY

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

MECHANICAL DATA

Operating Ambient temperature range	-40°F to +149°F (-40°C to +65°C)	-40°F to +149°F (-40°C to +65°C)
Storage Temperature Range	-40°F to +185°F (-40°C to +85°C)	-40°F to +185°F (-40°C to +85°C)
Dimensions (W x H x D) inches	8.75" x 6.5" x 1.1"	10.2" X 9.5" X 1.4"
Dimensions (W x H x D) mm	221mm x 167mm x 29mm	259mm X 242mm X 36mm
Weight	5.5 lbs (2.5kg)	8.4lbs (3.8kg)
Enclosure rating	NEMA 6	NEMA 6 NEMA 6
Cooling	Natural Convection - No Fans	Natural Convection - No Fans

FEATURES

Communication	Power line (PLC)	ZigBee (Wireless)
Emissions & Immunity (EMC) Compliance	FCC PART 15, ANSI C63.4 2003, ICES-003	FCC Part15; ANSI C63.4; ICES-003
Safety Class Compliance	UL1741, CSA C22.2 No.1071-01, NEC 690.12, NEC 690.11	UL1741, CSA C22.2 No.1071-01, NEC 690.12, NEC 690.11
Grid Connection Compliance	IEEE 1547	IEEE 1547
Warranty	10 years standard, extendable to 25 years	10 years standard, extendable to 25 years

* Programmable per customer and utility requirements. All settings UL approved

Specifications subject to change without notice – please ensure you are using the most recent update found at www.APsystems.com

APsystems Accessories

The APsystems microinverter solution includes a full range of certified products and accessories to suit any PV application. Contact your APsystems distributor, or see our full catalog online at APsystems.com.



The ECU provides the Power Line Communication (PLC) to each microinverter, allowing monitoring of each individual PV module in the array.

Legend

- A. Pair of MC4 Caps (Male and Female)
- B. AC 25A Female Cap
- C. AC Connector Cable
- D. AC Extension Connector Cable

- E. YC500i Trunk Cable
- F. YC500i Trunk Cable T-CONN Cap
- G. YC500i Trunk Cable End Cap
- H. YC500i AC Connector Unlock Tool

- I. YC1000-3 Trunk Cable
- J. Terminal Sealing Cap
- K. AC End Cap – YC1000