

SOLAR BUILDER™

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MARCH/APRIL 2017

THE INVERTER ISSUE

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APsystems

Model	Weight	Operating voltage range	Max. output power	MPPTs	Total harmonic distortion	Max efficiency	Power factor	NEC 690.12 RSS	MPPT voltage range
MICROINVERTERS									
YC500A	5.5 lbs	208 - 240 V	500 W	Dual (2)	<3%	95.50%	>0.99	Yes	22 - 45 V
YC500i	5.5 lbs	208 - 240 V	548 W	Dual (2)	<3%	95.50%	>0.99	Yes	22 - 45 V
YC1000-3-208	8.4 lbs	120 - 208 V	900 W	Single (1)	<3%	95.00%	>0.99	Yes	16 - 55 V
YC1000-3-480	8.4 lbs	277 - 480 V	900 W	Single (1)	<3%	95.00%	>0.99	Yes	16 - 55 V

LINEUP NOTES: 10- to 25-year warranty options • Data monitoring included

THIS MICROINVERTER LINE GETS EVEN MORE POWERFUL, VERSATILE

APsystems was founded in 2009 and is one of the largest microinverter and MLPE solution providers in the world. APsystems serves customers in more than 70 countries through three global business units operating in: Seattle for the Americas region; Lyon, France, for the EMEA region; and Jiaxing, China, for the APAC region. APsystems has hundreds of thousands of units installed around the globe producing over 130 GWh of energy.

APsystems offers installers intelligent, affordable microinverter solutions, plug-and-power features and hassle-free installation. APsystems was the first to offer a dual-module microinverter, the YC500, and then was the first to offer a true three-phase, four-module microinverter for commercial applications, the YC1000. Overall, APsystems microinverters have about 30 percent fewer components than competing brands, which leads to higher reliability and lower costs.

WHAT'S NEW?

APsystems extends its advanced microinverter line with the new YC500i with EnergyMax power handling and integrated ground. This EnergyMax technology allows the dual-module unit to produce 274 watts peak output per side (548 watts total), which is nearly a 10 percent increase in peak power output over conventional microinverters and crucial for harvesting the power of today's high-output PV modules.

The YC500i microinverter builds on the same advanced, FPGA chip-based platform as the popular YC500A flagship model. The YC500i utilizes a trunk cable, offering installers an alternative to the daisy-chain

design of APsystems' YC500A microinverters. This provides a solution for installers who favor trunk cable architecture as well as markets where regulatory bodies prefer an integrated ground.

ADVICE TO BUYERS

"When considering inverter solutions, be sure to compare warranties and ask questions about LCOE, determine which solutions will produce the most energy over the life of the system, ask about safety considerations like arc-fault protection and rapid shutdown compliance, consider product reliability and ask about module-level energy monitoring so you can see what each panel is producing," says Christopher Barrett, APsystems director of engineering and Technical Services.

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