

The Azuray AP300 means greater energy harvest. You will see energy gains between 5% and 25% with PV Systems experiencing panel mismatch, shading or soiling.



The Azuray AP300 is a solar module maximum power point tracking (MPPT) solution in a junction box. This highly reliable DC-to-DC converter is a module integrated solution including bypass diodes with a 3 sub-string input. The efficient MPPT algorithms maximize the energy output of PV systems experiencing panel mismatch or shading. The Azuray AP300 provides solar module monitoring, installation and fire safety features when paired with the Azuray ACM300 Communications Gateway. The Azuray AP300 and the Azuray ACM300 Communications Gateway provide a complete system for maximum energy harvest that improves the performance of each solar module and the string inverter.

Greater Energy Harvest

Maximum Power Point Tracking on the solar module means that the PV system is operating at its peak performance. The Azuray AP300 finds the maximum power point for each solar module and ensures that the string inverter is working at its peak levels. The patent pending algorithms in the Azuray AP300 match the output from each solar module to the best operating point for the string inverter.

Monitoring and System Performance

The Azuray AP300 provides monitoring of power production and fault detection for each solar module. The communications function facilitates interaction between each of the solar modules in the system, the string inverter and the Azuray ACM300 Communications Gateway to maximize energy harvest.

Safety Features

Safety is of foremost importance when it comes to the installation and operation of a solar PV system. The Azuray AP300 provides installation safety as the solar module is delivered in the off mode and power production starts on installer command. In addition, the Azuray AP300 is designed to shut off DC power from the solar module when the connection to AC power is disrupted.

Twenty-five Year Reliability

The Azuray AP300 is designed for twenty-five year life and worry free operation. The reliability of the Azuray AP300 is designed in using superior high-temperature components suited for the extreme temperatures of the PV System.

Contact us today for more info: sales@azuraytech.com or +1.971.245.1401 voice

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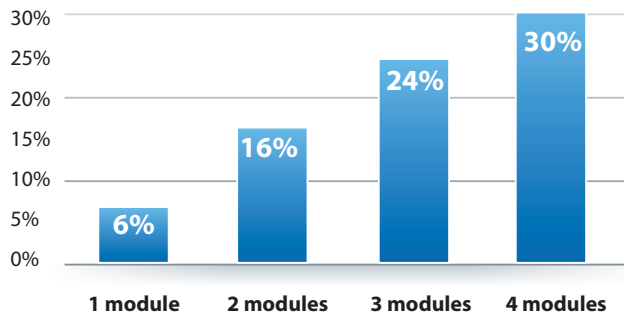
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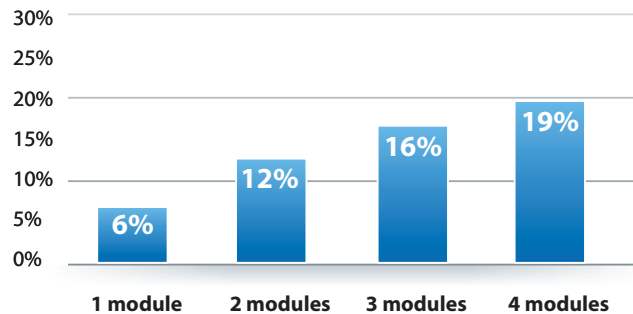
Potential Increase in Energy Harvest - Shaded Modules

12 – 230 watt modules per string with 10% of module shaded

One String



Two Strings



Module Specifications: $V_{mp} = 30V$ $V_{oc} = 35V$ $I_{mp} = 7.7A$ $I_{sc} = 8A$

Specifications

		Min	Typ	Max	Units
Input Specifications	Panel Voltage (V_{pv})	8		80	Volts
	Panel Current		8	10	Amps
	Input Power			300	Watts
Output Specifications	Output Voltage			V _{pv}	Volts
	Output Current			15	Amps
Other Specifications	Efficiency		98	99.2	%
	Ambient Operating Temp	-40	25	90	°C
Mechanical Specifications	Dimensions	165 x 125 x 33			mm
	Weight	520			gr
Qualifications	Safety: UL1741, UL1703, CSA22.2C107.1, IEC 62103, IEC 61730, IEC 61215				
	CE MARK				
	FCC: FCC Part 15–Class B				
	RoHS: Yes				

About Azuray Technologies

Azuray Technologies, Inc was formed in 2008 and is located in Portland, Oregon. Azuray Technologies specializes in solar power electronics and is dedicated to developing products and technologies that bring improved energy harvest to the PV industry.

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