

### Azuray **PowerOptimizer**

tech sheet

#### Azuray® AP250

The Azuray® AP250 provides a fully functional maximum power point tracking (MPPT) 300 watt solution. This highly reliable DC to DC converter can be installed with new or existing PV systems. The efficient MPPT algorithms increase the energy output of PV systems experiencing module mismatch or shading. The Azuray AP250 is compatible with leading brand solar modules and string inverters and works with standard series module wiring methods.



- **The Azuray AP250 is designed to bring the most power to PV systems with support for solar modules up to 300 watts.**
- **Best in Class efficiency means greater energy output. The Azuray AP250's 98% efficiency results in less heat dissipation, longer life and more energy output.**
- **Designed for twenty-year life and worry free operation. The Azuray AP250 reliability is designed in. Its superior components are well suited for extreme temperatures and is an example of excellent manufacturing workmanship.**
- **Easy mounting options provide greater flexibility for a variety of system configurations. The Azuray AP250 has installation options for both the solar module and racking. The NEMA 4 rated enclosure will keep the electronics safe from environmental damage.**

#### Greater Energy Harvest

Maximum Power Point Tracking on the solar module means that the PV system is operating at its peak performance. The Azuray AP250 finds the maximum power point for each solar module and ensures that the string inverter is working at its peak levels. The patented algorithms in the Azuray AP250 match the output from each solar module to the best operating point for the string inverter.

#### Best in Class Efficiency

The efficiency of the Azuray AP250 has been tested at 98% peak efficiency and 97.6% CEC efficiency. Attention to engineering excellence and solar module interaction achieves this superior level of operation. By understanding the interactions between all components in the PV system the Azuray AP250 achieves this level of efficiency.

#### Built In Reliability

Designed for twenty-year life and worry free operation, the Azuray AP250 has reliability designed in. Its superior components are well suited for extreme temperatures and is an example of excellent manufacturing workmanship.

Contact us today for more info: [sales@azuraytech.com](mailto:sales@azuraytech.com) or 971.245.1401 voice

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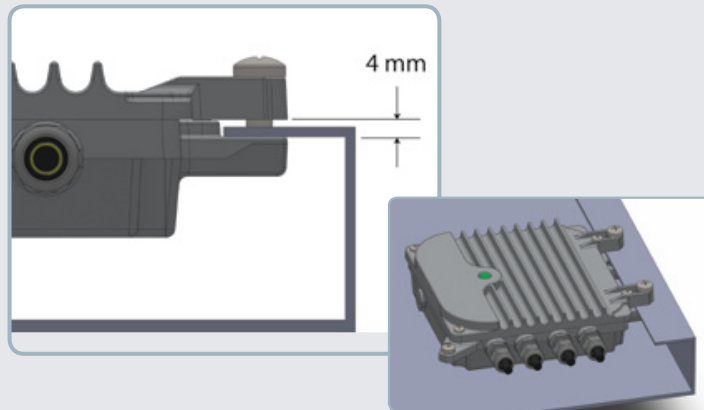
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## Azuray AP250 Installation

### Time Saving and Convenient

The Azuray AP250 is designed to mount to both the frame of the solar module or the racking system. The secure mounting system is compatible with most solar modules. The Azuray AP250 is designed to sit above the solar module backplane. No special tools are required to attach the Azuray AP250 and no drilling into the solar module frame is necessary.



## Specifications

	Min	Typ	Max	Units
<b>Input Specifications</b>	<b>Panel Voltage (Vpv)</b>	20		80 Volts
	<b>Panel Current</b>		8	10 Amps
	<b>Input Power</b>			300 Watts
<b>Output Specifications</b>	<b>Output Voltage</b>			Vpv Volts
	<b>Output Current</b>			14 Amps
<b>Other Specifications</b>	<b>Efficiency</b>		98	%
	<b>Ambient Operating Temp</b>	-40	25	65 C°
<b>Mechanical Specifications</b>	<b>Dimensions</b>		136 x 136 x 40	mm
	<b>Weight</b>		970	gr
	<b>Enclosure</b>		NEMA 4	
<b>Qualifications</b>	<b>ETL Recognized:</b> UL1741 • CSA22.2C107.1 • IEC 62103			
	<b>CE MARK</b>			
	<b>FCC:</b> FCC Part 15–Class B			

## About Azuray Technologies, Inc

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 that bring new technologies to solar energy production.

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