

AP260 Data Sheet

Dynamic power optimization recouping up to 99.4% of lost energy with exceptional reliability, system monitoring and safety

The Azuray® AP260 goes beyond typical maximum power point tracking (MPPT) with dynamic power optimization ideal for both residential and commercial solar arrays. When solar modules face real-world conditions like shading, module mismatch or array layout challenges, those equipped with the AP260 harvest up to 25% more total energy.

We've used the highest-quality, automotive-grade components to create a rugged DC-to-DC converter designed to excel even in the extreme temperature environments (up to 85°C) faced by PV modules.

When coupled with the Azuray® ACM300 Communications Gateway, the AP260 also provides PV module monitoring, safer module installation, and additional safety features. The AP260 is compatible with leading brand solar modules and string inverters and works with standard series module wiring methods.



Increase your energy harvest through:

Optimization for shading, soiling, module mismatch and unique design configurations

Superior energy harvest with MPPT at the individual module

Reduce your ownership cost with:

Power line communications requires no additional wiring

25-year reliability and limited warranty

Automotive-grade components designed to endure the extreme temperatures faced by PV systems

Greater Energy Harvest

By adding dynamic power optimization at the solar module level, your entire PV system can operate at its peak performance. After finding the maximum power point for each PV module, the AP260 uses patent-pending technology to match each module's output to the optimal operating point for the string inverter.

Exceptional Reliability

The AP260 is designed for 25 years of worry-free operation, giving customers cost savings from fewer maintenance visits. Like all our products, the Azuray® AP260 uses superior high-temperature, automotive-grade components designed for the extreme temperatures (85°C) typical in PV systems.

System Performance Monitoring

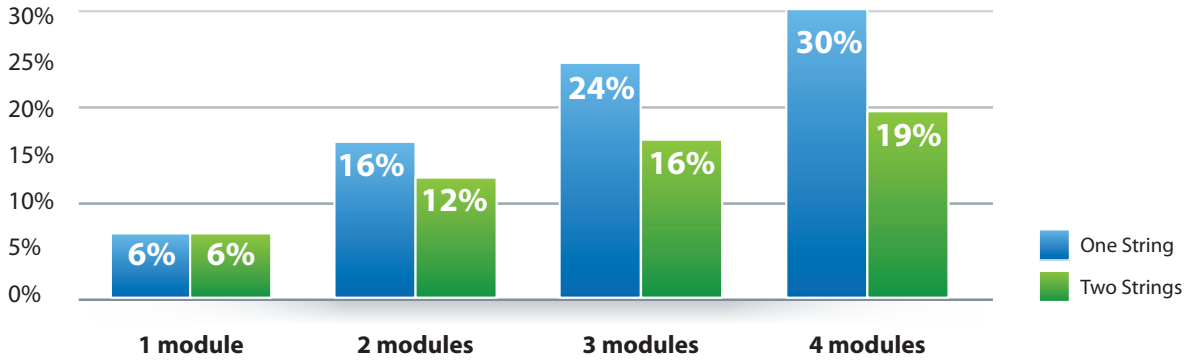
The AP260 pairs with the Azuray® ACM300 Communications Gateway to provide module and system-wide performance data at your finger tips. Together they further optimize for peak operating efficiency and energy harvest.

Safety Features

When coupled with the ACM300 Communications Gateway, the AP260 can shut off DC power output from the PV module to the inverter during a fire emergency or installation. This means safer installation and servicing, as well as increased safety for emergency personnel.

Potential Increase in Energy Harvest - Shaded Modules

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



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

Specifications

		Min	Avg	Max	Units
Input Specifications	Panel Voltage (Vpv)	8		70	Volts
	Panel Current		8	10	Amps
	Input Power			300	Watts
Output Specifications	Output Voltage			V pv	Volts
	Output Current			15	Amps
Other Specifications	Efficiency		99		%
	Ambient Operating Temp	-40	25	85	°C
Mechanical Specifications	Dimensions	136 x 136 x 40			mm
	Weight	970			gr
	Enclosure	NEMA 4			
Qualifications	Safety: UL1741, CSA22.2C107, IEC 62103				
	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 that bring new technologies to solar energy production.

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