

INSTANT CONNECT[®] With Enphase M215-IG Microinverter

For more than a decade, Andalay Solar has stood for reliability and innovation - developing products that deliver safe and efficient electricity, and bringing comfort and convenience to the lives of thousands of American homes and businesses. Andalay Instant Connect solar modules come bundled with microinverters made by industry-leader Enphase Energy, thus streamlining installation time and improving aesthetics.



Instant Connect Technology – The Original Integrated Plug-and-Play Solar Power System



Incredibly Simple. Patented design eliminates the need for separate rack systems and automates panel-to-panel grounding and electrical connections. With 80% fewer parts and 50% less labor, the system is easy to design and fast to install.

Reliable performance. Integrated wiring and grounding systems eliminate the hazards of exposed wiring and corrosive environmental effects, providing decades of optimal performance.

Ruggedized construction. Instant Connect systems are engineered to exceed wind and snow load requirements established by local building codes, enabling installations in more regions than any other rooftop solar power system.

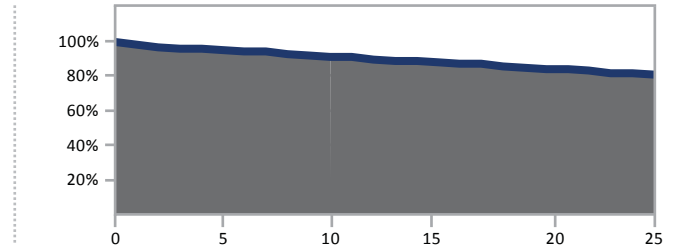
Monitor your system anywhere in the world. Web-base monitoring system delivers real-time energy production and savings analysis directly to your browser or smart-phone.

Integrated Mounting Systems. Andalay Solar Instant Connect panels seamlessly integrate with our sloped and flat roof mounting systems, minimizing part count and maximizing reliability.



The Andalay Solar 25-YEAR PANEL WARRANTY

You have our word. Every Solar Power System is backed by the proven reliability of the Andalay name — a guarantee of quality. Panel warranty provides 25 year power output warranty—Yr 1 @ 97%, Yr 2 - Yr 24 annual power decline will be no more than .7%, Yr 25 @ 80%

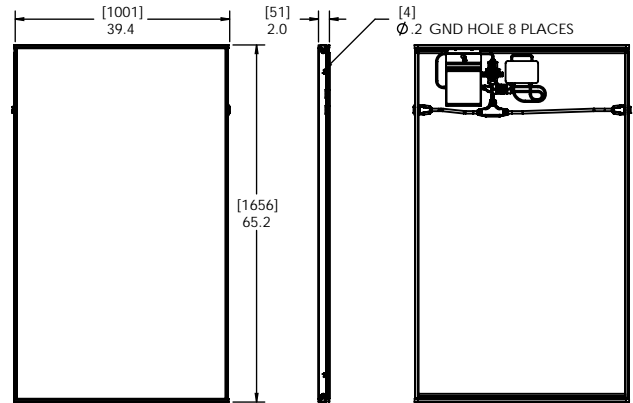


Electrical Characteristics at Standard Test Conditions

STC: irradiance of 1000W/m², spectrum AM 1.5, and module temperature of 25°C

AX-250-1-DC4-0-B		
Maximum Power Output	Pmax	250W
Open Circuit Voltage	Voc	37.2V
Short Circuit Current	Isc	8.52A
Maximum Power Voltage	Vmp	31.2V
Maximum Power Current	Imp	8.03A
Module Efficiency		15.3%
Power Tolerance		+ 3%
Maximum A Series Fuse Rating		15A
Maximum System Voltage (UL)		600V DC
Cell Technology	60 Cell Poly-Si, 156 x 156mm (6.14 inch)	
Normal Operating Cell Temperature		44.9°C ± .1°
Temperature Coefficient		
Temperature Coefficient of Pmax (Tk Pmax)		-0.45 % / °C
Temperature Coefficient of Voc (Tk Voc)		-0.15 % / °C
Temperature Coefficient of Isc (Tk Isc)		+0.06 % / °C
Compliance		UL 1703, Type 2
Certified wind and snow load tested to 2400Pa		
Protected by U.S. Patent No. 7,406,800; Patent No. 7,832,157; Patent No. 7,866,098; Patent No. 7,987,614; Patent No. 8,505,248; and Patent No. 8,813,460B2. Other patents pending.		

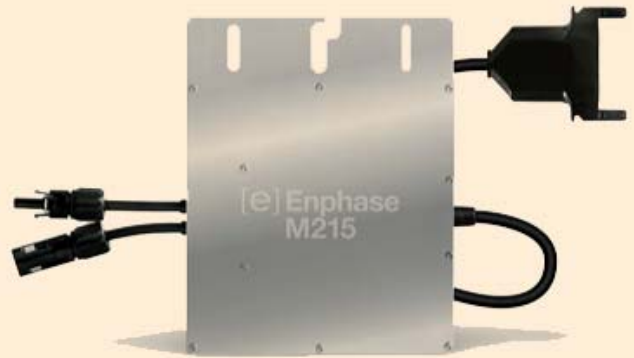
Mechanical Specifications - Module



Dimensions:	65.2" x 39.4" x 2.0" (1,656mm x 1,001mm x 51mm)
Weight:	51.6 lbs (23.4 kg)
Frame:	Black anodized aluminum
Glass:	3.2mm thickness with AR coating
Junction Box:	IP65
Cable:	4mm ² , 12AWG, 950mm without connectors

Enphase M215-IG Specifications

	AC Output @ 208 Vac	AC Output @ 240 Vac
Rated (continuous) output power	215W	215W
Nominal output current	1.03A	0.9A
Nominal voltage/range	208V/183V-229V	240V/211V-264V
Nominal frequency/range	60.0/57-61 Hz	60.0/57-61 Hz
Extended frequency/range	60.0/57-62.5 Hz	60.0/57-62.5 Hz
Power factor	>0.95	>0.95
Maximum units per 20A branch	15 (three phase)	17 (single phase)
Maximum output fault current	850mA rms for 6 cycles	
CEC weighted efficiency	96.5%	96.5%
Peak inverter efficiency	96.5%	96.5%
Night time power consumption	65mW max	
Operating temperature range	-40°C to + 65°C	-40°C to + 65°C
Cooling	Natural Convection - No Fans	
Enclosure environment rating	Outdoor - NEMA 6 (microinverter only)	
Communication	Powerline	
Compliance	UL1741/IEEE1547, FCC Part 15 Class B CAN/CSA-C22.2 NO. 0-M91. 0.4-04, and 107.1-01	



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