

# SOLARBRIDGE PANTHEON™ MICROINVERTER



- ENABLES 25-YEAR WARRANTY ON AC MODULES
- INCREASES ENERGY HARVEST UP TO 25%
- LOWERS INSTALLATION AND OPERATING COSTS
- UNLOCKS REVENUE FROM SITES THAT WOULD OTHERWISE DISQUALIFY
- SAFEST SOLUTION

## AC Modules with SolarBridge Pantheon Microinverters

Solar modules that produce grid-compatible AC power have been a long-sought goal of the PV industry. The limitations of traditional PV systems with series-wired DC modules and failure-prone central inverters have held solar back from its full performance potential, and made rooftop solar impractical or unsuitable for up to 50% of sites.

Until now. As part of the SolarBridge AC Module System, the SolarBridge Pantheon™ microinverter is designed from the ground up to enable a new range of highly reliable, integrated AC modules that increase energy harvest, simplify installation and deliver continuous system uptime. Welcome to a new era of solar. Welcome to the era of AC modules.

## Market-Expanding

AC modules allow manufacturers to grow their addressable market with an entirely new, differentiated product offering. AC modules with SolarBridge Pantheon microinverters enable sites with varied layouts or partial shading to now be viable for solar. Sites with limited space or budget become practical as well with the inherent flexibility of AC systems.

In addition, module manufacturers can now participate in the inverter revenue stream, reversing the trend of declining ASPs and further increasing sales.

## Reliability by Design

The SolarBridge Pantheon's ultra-reliable design protects a module manufacturer's hard-won reputation for quality by supporting a 25-year warranty on the complete AC module. Its patented architecture enables the use of high-reliability film capacitors instead of failure-prone components such as electrolytic capacitors, tantalum capacitors and optoisolators.

The SolarBridge Pantheon has undergone rigorous reliability testing – exceeding standard certification requirements to ensure it can withstand the harsh conditions experienced in a rooftop application.

## High Energy Output, Lower Cost

By eliminating energy losses due to variable shading, module mismatch, uneven soiling and costly DC wiring, AC modules with SolarBridge Pantheon microinverters produce up to 25% more energy per site than alternative systems – a powerful selling point, especially with performance-based incentives and power purchase agreements.

Easier, faster and safer to install, AC modules with SolarBridge Pantheon microinverters reduce upfront installation costs by up to 25%. And by eliminating the need for costly inverter replacements during the operating life of the system, the on-going costs of a solar array are reduced by a full 25% over central inverter solutions.

## Complete AC Module System

As part of the SolarBridge AC Module System, which includes the SolarBridge Power Manager and Power Portal, the SolarBridge Pantheon enables module manufacturers to provide greater value to their network of dealers and installers with AC modules that have factory-integrated microinverter technology.

Yielding the lowest levelized cost of energy of any solar architecture, SolarBridge Pantheon microinverters enable manufacturers to overcome the limitations of traditional DC modules, and deliver a differentiated AC module solution that expands their market and grows their bottom line.



## SPECIFICATIONS

	P235LV-240	P235HV-240
<b>INPUT DATA (DC)</b>		
Maximum Input Power (W)	250	250
Maximum continuous input power (W)	235	235
Maximum input voltage	48	64
MPPT voltage (V)	18-36	25-50
Maximum DC short circuit current (A)	14	14
Maximum input current (A)	11.25	8
<b>OUTPUT DATA (AC)</b>		
Maximum continuous output power (W)	225	
Nominal output current (A)	0.9375	
Nominal voltage (V)	240	
Operating voltage range (V)	211-264	
Nominal frequency (Hz)	60	
Operating freq range (Hz)	59.3 - 60.5	
Power factor	>0.99	
Total harmonic distortion	< 5%	
Maximum units per 20A branch	17	
<b>EFFICIENCY</b>		
Peak inverter efficiency	95.5%	
CEC weighted efficiency	94.5%	
Nominal MPP tracking	99.6%	
<b>MECHANICAL DATA</b>		
Operating ambient temp range	-40C to +65C	
Night time power consumption (tare)	<30mW	
Dimensions (W x H x D)	8" x 6.5" x 1.25"	
Weight	4.5 lbs	
Cooling	Natural Convection - No Fans	
Enclosure environmental rating	Outdoor — Tested to UL 1703, meets NEMA 6	
<b>FEATURES</b>		
Communication	Powerline Carrier	
Warranty	25 years	
Compliance	FCC Part 15 Class B UL 1741 / CSA 107.1	

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