

SUNCIME Microinverters

High Power Smart Grid Ready Microinverters

Significantly simplifies installation while monitoring and analyzing software that achieves the highest system efficiency. Microinverter reliability standards and have been tested for over one million hours of energization

This provides an industry-leading warranty of up to 25 years.

Microinverters

Easy to Install

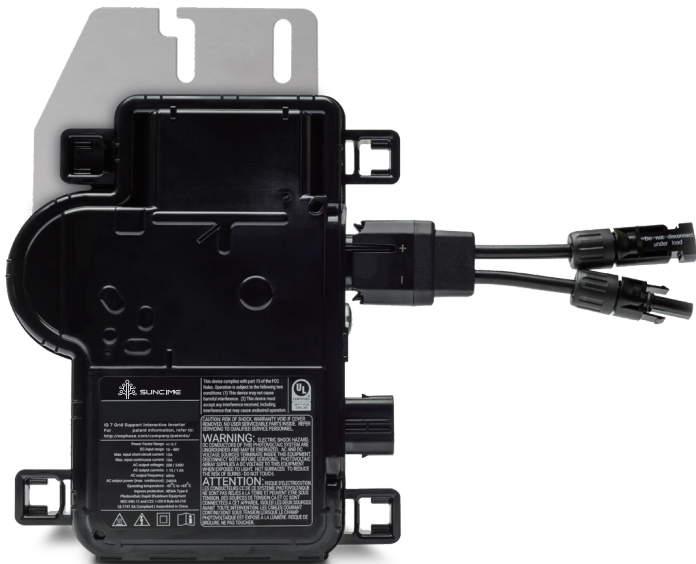
- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell* modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)



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INPUT DATA (DC)	suncime-60-2-US	suncime PLUS-72-2-US		
Commonly used module pairings ¹	235 W - 350 W +	235 W - 440 W +		
Module compatibility	60-cell PV modules only	60-cell and 72-cell PV modules		
Maximum input DC voltage	48 V	60 V		
Peak power tracking voltage	27 V - 37 V	27 V - 45 V		
Operating range	16 V - 48 V	16 V - 60 V		
Min/Max start voltage	22 V / 48 V	22 V / 60 V		
Max DC short circuit current (module I _{sc})	15 A	15 A		
Overvoltage class DC port	II	II		
DC port backfeed current	0 A	0 A		
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit			
OUTPUT DATA (AC)	Microinverter	Microinverter		
Peak output power	250 VA	295 VA		
Maximum continuous output power	240 VA	290 VA		
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	240 V / 211-264 V	208 V / 183-229 V
Maximum continuous output current	1.0 A (240 V)	1.15 A (208 V)	1.21 A (240 V)	1.39 A (208 V)
Nominal frequency	60 Hz			
Extended frequency range	47 - 68 Hz			
AC short circuit fault current over 3 cycles	5.8 Arms			
Maximum units per 20 A (L-L) branch circuit ³	16 (240 VAC)	13 (208 VAC)	13 (240 VAC)	11 (208 VAC)
Overvoltage class AC port	III			
AC port backfeed current	0 A			
Power factor setting	1.0			
Power factor (adjustable)	0.85 leading ... 0.85 lagging			
EFFICIENCY	@240 V	@208 V	@240 V	@208 V
Peak efficiency	97.6 %	97.6 %	97.5 %	97.3 %
CECweighted efficiency	97.0 %	97.0 %	97.0 %	97.0 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type (IQ7-60-2-US & IQ7PLUS-72-2-US)	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 lbs)			
Cooling	Natural convection - No fans			
Approved for wet locations	Yes			
Pollution degree	PD3			
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure			
Environmental category / UV exposure rating	NEMA Type 6 / outdoor			
FEATURES				
Communication	Power Line Communication (PLC)			
Monitoring	Enlighten Manager and MyEnlighten monitoring options.			
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.			
Compliance	CA Rule 21 (UL 1741-SA) UL 62109-1, UL1741/IEEE1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC-2014 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.			