

# Sunny Boy™ 2100U



*The ideal inverter for high quality solar powered home systems*



UL 1741 Listed for grid interactive inverters

5-year comprehensive warranty standard

Rugged NEMA 4X stainless steel enclosure standard

Exceptional reliability and energy capture ratio

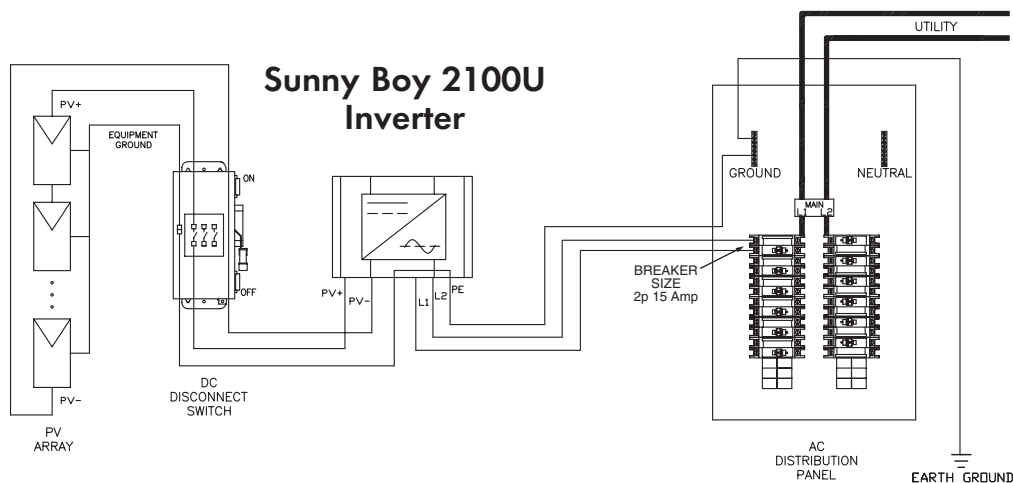
Easy to install three-point mounting system

Comprehensive communications and data collection options

SMA's modular string inverter design is expandable to virtually any size system

The SMA Sunny Boy inverter, the most popular grid-tied photovoltaic inverter in Europe, is now UL 1741 Listed and available in North America. Sunny Boy's extensive track record in some of the world's most demanding markets has made it a favorite among PV professionals everywhere. Over 300,000 Sunny Boy inverters have been installed worldwide. Superior design, rock-solid German engineering and exceptional real-world efficiency have made Sunny Boy the top choice for American solar designers.





The Sunny Boy 2100U is the ideal inverter for new or existing home power systems with outstanding quality and performance at a price that is affordable. The Sunny Boy's unsurpassed reliability and efficiency are the result of SMA's manufacturing philosophy that combines simple design with robust execution. SMA's state-of-the-art maximum power point tracking performance results in greater real-world energy capture. Sunny Boy's safety and reliability record is also exceptional due, in part, to the inverter's redundant grid monitoring and built-in ground fault detection and interruption protection. The inverter's IGBT power stage generates a nearly perfect sine wave with the lowest harmonic distortion in the industry and meets ultra-strict FCC EMC standards. SMA's unique String Inverter technology makes future system expansion simple. SMA advanced communication options are available to satisfy almost any application.

## Specifications

Inverter Technology	Real sine-wave, current source, high frequency PWM	DC Voltage Ripple	< 5%
AC Voltage	213-262 (240 V AC)	Power Consumption	0.25W nighttime < 7W standby
AC Frequency	59.3 - 60.5 (60 Hz) (50 Hz also available)	Ambient Temperature Rating	45°C
DC Input Voltage	250 - 600 V DC	Enclosure	NEMA 4X (IP65) Stainless Steel
Peak Power Tracking Voltage	234 - 480 V DC	Dimensions	17.10W x 11.60H x 8.40D in 434W x 295H x 214D mm
PV Start Voltage	300 V DC	Weight	71 lb (32 kg)
Minimum DC Input Voltage	233 - 256 V DC	Compliance	United States UL 1741, E210376, UL 1998, IEEE 519, IEEE 929, ANSI C62.41 C1 & C3, FCC part 15 A & B
Maximum Array Input Power	2600W (240V AC)(DC@STC)		International DIN EN50082 Part 1, 61000-32, 50081, 50014, 600055 Part 2 55011 Group 1 Class B, 50178, 60146 Part 1-1
Maximum AC Power Output	2100W (240V AC)		
Current THD	< 4%		
Power Factor	Unity		
Peak Inverter Efficiency	94.8%		
CEC Weighted Efficiency	93.0%		
Cooling	*Convection cooling (no fan)		
Maximum AC Output Current	12A		
Maximum DC Input Current	12A		

\* Optional external fan (Sunny Breeze) available

Distributed by:

SMA America, Inc., 12438-C Loma Rica Dr.  
Grass Valley, CA. 95945  
Tel: 530.273.4895 Fax: 530.274.7271  
www.sma-america.com

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