



What's your
inverter's IQ?



INVERTERS

Power Inverters

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Inverters

“Sunnyboy by SMA”

World's best-selling
power inverters



Inverters

Overview

“Those who know, choose SMA”

Sunny Boy is the world’s most popular line of solar inverters. The reasons for this success are straightforward: unmatched versatility, reliability, efficiency and durability. The graduated power classes of this family of inverters provide flexibility in system design, meaning Sunny Boy is the right solution for any application.

Innovative -First transformerless SMA inverter to be certified in accordance with UL 1741 Optional integrated AFCI functions meet the requirements of NEC 2011 690.11

Economical -Maximum efficiency of 98.7%
Class-leading CEC efficiency of 98.5%
Superior MPP tracking with OptiTrac™
Transformerless, with H5 topology

Reliable -OptiCool™ active temperature management

Convenient -Integrated DC disconnect
SMA Power Balancer for three-phase power

Assembled in the USA -Compliant with ARRA "Buy American" clause

Performance Data

3kW



6kW



11kW



Technical data	Sunny Boy 3000TL-US 208 V	Sunny Boy 6000TL-US 208 V	Sunny Boy 11000TL-US 240 V
Input (DC)			
Max. recommended PV power (@ module STC)	3750 W	7500 W	13750 W
Max. DC power (@ cos φ = 1)	3200 W	6300 W	11500 W
Max. input voltage	600 V	600 V	600 V
MPP voltage range / rated input voltage	175 V - 480 V / 345 V	300 V - 480 V / 345 V	345 V - 480 V / 379 V
Min. input voltage / initial input voltage	300 V / 360 V	300 V / 360 V	345 V / 360 V
Max. input current	18 A	20.9 A	33.3 A
Max. input current per string	18 A	20.9 A	33.3 A
Number of independent MPP inputs	1	1	1
Strings per MPP input @ Combiner Box	6	6	6
Output (AC)			
Rated power / max. apparent AC power	3000 W / 3000 VA	6000 W / 6000 VA	11000 W / 11000 VA
Nominal AC voltage / nominal AC voltage range	208 V / 183 V - 229 V	208 V / 183 V - 229 V	240 V / 211 V - 264 V
AC power frequency / range	60 Hz / 59.3 Hz ... 60.5 Hz	60 Hz / 59.3 Hz ... 60.5 Hz	60 Hz / 59.3 Hz ... 60.5 Hz
Max. output current	15 A	28.8 A	45.8 A
Power factor at rated power	1	1	1
Feed-in phases / connection phases	1 / 2	1 / 2	1 / 2
Efficiency			
CEC efficiency / max. efficiency	98 % / 98.6 %	98 % / 98.6 %	98 % / 98.7 %