

SUNNY BOY 6000TL-US / 7000TL-US / 8000TL-US / 9000TL-US / 10000TL-US / 11000TL-US



SB 6000TLUS-12 / SB 7000TLUS-12 / SB 8000TLUS-12 /
SB 9000TLUS-12 / SB 10000TLUS-12 / SB 11000TLUS-12



NOW AVAILABLE FOR 240 V



Innovative

- First transformerless SMA inverter to be certified in accordance with UL 1741
- First inverter with arc-fault circuit interrupter listed according to UL 1699B

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

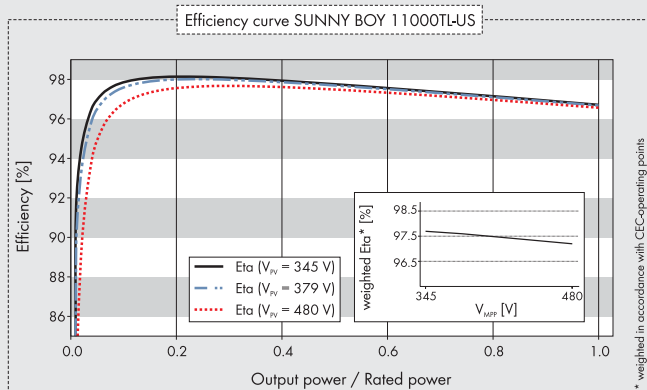
Convenient

- Integrated DC disconnect
- SMA Power Balancer for three-phase grid connection

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Transformerless design, maximum energy production

The Sunny Boy TL-US series is UL listed for North America and features SMA's innovative H5 topology, resulting in superior efficiencies of more than 98 percent and unmatched solar power production. The transformerless design reduces weight, increases the speed of payback and provides optimum value for any residential or decentralized commercial PV system. The Sunny Boy TL-US series for North America is the ideal choice in transformerless technology.



Accessories



Sunny Boy Combiner Box
SBCBT6-10



Bluetooth Piggy-Back
BTPBINV-NR
with External Antenna
BTPB-EXTANT-NR



Interface RS485
485USPB-NR



SMA Power Balancer Set
PBLBUS-10-NR

● Standard feature ○ Optional feature — Not available
Data at nominal conditions

Technical data	Sunny Boy 10000TL-US		Sunny Boy 11000TL-US
	208 V	240 V	240 V
Input (DC)			
Max. recommended PV power (@ module STC)	12500 W	12500 W	13750 W
Max. DC power (@ cos φ = 1)	10500 W	10400 W	11500 W
Max. input voltage	600 V	600 V	600 V
MPP voltage range / rated input voltage	300 V – 480 V / 345 V	345 V – 480 V / 379 V	345 V – 480 V / 379 V
Min. input voltage / initial input voltage	300 V / 360 V	345 V / 360 V	345 V / 360 V
Max. input current	35 A	30.2 A	33.3 A
Max. input current per string	35 A	30.2 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	10000 W / 10000 VA		11000 W / 11000 VA
Nominal AC voltage / nominal AC voltage range	208 V / 183 V – 229 V	240 V / 211 V – 264 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	48.1 A	41.7 A	45.8 A
Power factor at rated power	1		1
Feed-in phases / connection phases	1 / 2		1 / 2
Efficiency			
CEC efficiency / max. efficiency	98.0 % / 98.6 %	98 % / 98.7 %	98 % / 98.7 %
Protective devices			
DC reverse polarity protection	●		●
AC short-circuit current capability	●		●
Galvanic isolation	–		–
All-pole-sensitive residual-current monitoring unit	●		●
Arc-fault circuit interrupter (according to UL 1699B)	●		●
Protection class	I		I
Overvoltage category	IV		IV
General data			
Dimensions (W / H / D)	470 / 615 / 240 mm (18.4 / 24.1 / 9.5 inch)		
Dimensions of DC Disconnect (W / H / D)	187 / 297 / 190 mm (7.28 / 11.7 / 7.5 inch)		
Weight	35 kg / 78 lb		
Weight of DC Disconnect	3.5 kg / 8 lb		
Operating temperature range	-40 °C ... +60 °C / -40 °F ... +140 °F		
Noise emission (typical)	46 dB(A)		46 dB(A)
Self-consumption (night)	0.15 W		0.15 W
Topology	Transformerless H5		Transformerless H5
Cooling concept	OptiCool		OptiCool
Degree of protection	NEMA 3R		NEMA 3R
Degree of protection of connection area	NEMA 3R		NEMA 3R
Max. permissible value for relative humidity (non-condensing)	100 %		
Features			
DC connection	Screw terminal		Screw terminal
AC connection	Screw terminal		Screw terminal
Display	Text line		Text line
Interface: RS485 / Bluetooth	○ / ○		○ / ○
Warranty: 10 / 15 / 20 years	● / ○ / ○		● / ○ / ○
Certificates and approvals (more available on request)	UL1741, UL1998, IEEE1547, FCC Part 15 (Class A & B), CAN/CSA C22.2 107.1-1, UL 1699B		
NOTE: US inverters ship with gray lids			
Type designation	SB 10000TLUS-12		SB 11000TLUS-12

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