



Economical

- Maximum DC input voltage of 750 V
- Cost savings due to fewer parallel strings
- Shade management with OptiTrac Global Peak¹

Flexible

- Compatible with all PV modules available on the market
- Variable applications due to the use as main or complementary device

Simple

- Without fan
- Easier wall mounting
- SUNCLIX DC plug-in system
- Quick connection without tools

Communicative

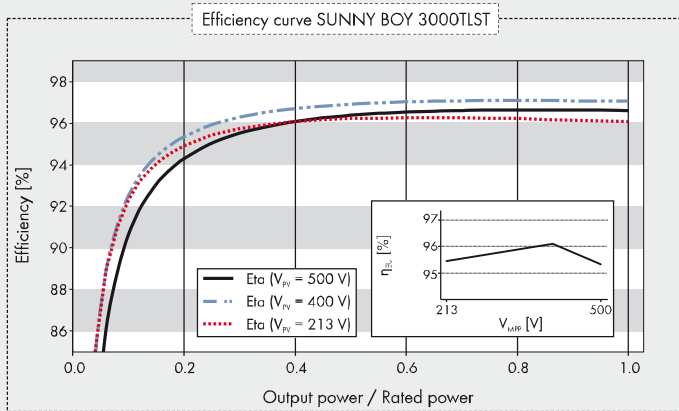
- Simple country configuration
- Bluetooth technology

SUNNY BOY 2500TL / 3000TL SINGLE TRACKER

Now also available as an economical specialist for small, simple plants

The same. Only new: The Sunny Boy TL is now available with “only” one MPP tracker and in principle offers all the benefits of its multistring brothers 3000TL, 3600TL, 4000TL and 5000TL: with economical operation, advanced technology and convenient handling, the special strengths of the Sunny Boy Single Tracker make it a standout. Not only is it a cost-efficient specialist for small, simple rooftop installations, but thanks to its reactive power capability, it is also the perfect addition to existing plants.

¹ Available starting 06/2012



Accessories



RS485 interface
DM-485CB-10



Webconnect interface
with WEBCONDM-10
speedwire function



Interface to speedwire
fieldbus SPWDM-10



Additional fan kit
FANKIT01-10



Multi-function relay
MFR01-10

1 Does not apply to all national appendices of EN 50438

Technical data	Sunny Boy 2500TL Single Tracker	Sunny Boy 3000TL Single Tracker
Input (DC)		
Max. DC power (@ cos φ = 1)	2650 W	3200 W
Max. input voltage	750 V	750 V
MPP voltage range / rated input voltage	180 V ... 500 V / 400 V	213 V ... 500 V / 400 V
Min. input voltage / initial input voltage	125 V / 150 V	125 V / 150 V
Max. input current	15 A	15 A
Max. input current per string	15 A	15 A
Number of independent MPP inputs / strings per MPP input	1 / 2	1 / 2
Output (AC)		
Rated output power (@ 230 V, 50 Hz)	2500 W	3000 W
Max. apparent AC power	2500 VA	3000 VA
AC nominal voltage	220 V / 230 V / 240 V	220 V / 230 V / 240 V
Nominal AC voltage range	180 V - 280 V	180 V - 280 V
AC power frequency / range	50 Hz, 60 Hz / -5 Hz ... +5 Hz	50 Hz, 60 Hz / -5 Hz ... +5 Hz
Rated power frequency / rated grid voltage	50 Hz/230 V	50 Hz/230 V
Max. output current	10.9 A	13.1 A
Power factor at rated power	1	1
Adjustable displacement power factor	0.8 overexcited ... 0.8 underexcited	0.8 overexcited ... 0.8 underexcited
Feed-in phases / connection phases	1 / 1	1 / 1
Efficiency		
Max. efficiency / European weighted efficiency	97 % / 96 %	97 % / 96.1 %
Protective devices		
DC-side disconnection device	○	○
Ground fault monitoring / grid monitoring	● / ●	● / ●
DC reverse polarity protection / AC short-circuit current capability / galvanically isolated	● / ● / -	● / ● / -
All-pole-sensitive residual-current monitoring unit	●	●
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / III	I / III
General data		
Dimensions (W / H / D)	490 / 519 / 185 mm (19.3 / 20.4 / 7.3 inch)	490 / 519 / 185 mm (19.3 / 20.4 / 7.3 inch)
Weight	23 kg / 50.6 lb	23 kg / 50.6 lb
Operating temperature range	-25 °C ... +60 °C / -13 °F ... +140 °F	-25 °C ... +60 °C / -13 °F ... +140 °F
Noise emission (typical)	25 dB(A)	25 dB(A)
Self-consumption (night)	1 W	1 W
Topology / cooling concept	Transformerless / convection	Transformerless / convection
Degree of protection: electronics / connection area (according to IEC 60529)	IP65 / IP54	IP65 / IP54
Climatic category (according to IEC 60721-3-4)	4K4H	4K4H
Max. permissible value for relative humidity (non-condensing)	100 %	100 %
Features		
DC connection	SUNCLIX	SUNCLIX
AC connection	Spring clamp terminal	Spring clamp terminal
Display	Graphic	Graphic
Interfaces: RS485 / Bluetooth®	○ / ●	○ / ●
Interfaces: Webconnect / speedwire	○ / ○	○ / ○
Warranty: 5 / 10 / 15 / 20 / 25 years	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○
Multi-function relay	○	○
Certificates and approvals (more available on request)	CE, VDE0126-1-1, G83/1-1, C10/11, G59/2, VDE-AR-N 4105	
Certificates and approvals (planned)	RD 661/2007, PPC, AS 4777, EN 50438 ¹ , PPDS, IEC 61727, SI4777, UTE C15-712-1, CEI 0-21, RD1699	
● Standard feature ○ Optional feature - not available, data at nominal conditions		
Type designation	SB 2500TLST-21	SB 3000TLST-21