

# SUNNY BOY 2500TL / 3000TL SINGLE TRACKER



SB 2500TLST-21 / SB 3000TLST-21



## Economical

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

## 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
- Fast connection, no tools required

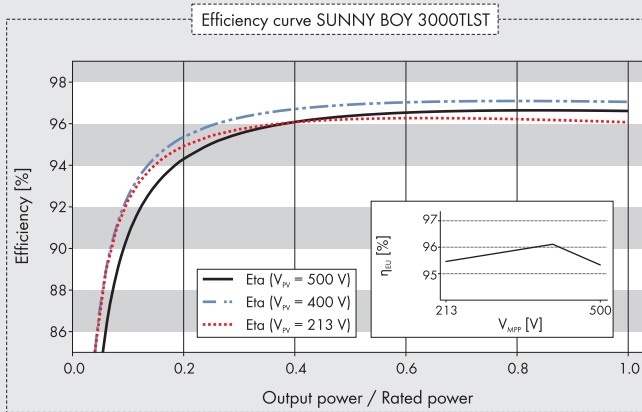
## Communicative

- Simple country configuration
- *Bluetooth*® technology

## SUNNY BOY 2500TL / 3000TL SINGLE TRACKER

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

Just like before. But 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 operation, 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's also the perfect addition to existing systems.



## Accessories



RS485 interface  
DM-485CB-10



Webconnect interface  
SWDM-10



Multi-function relay  
MFR01-10



Additional Fan Kit  
FANKIT01-10



Power Control Module  
PWCMOD-10

<sup>1</sup> Does not apply to all national appendices of EN 50438

<sup>2</sup> Scheduled

Provisional technical data	Sunny Boy 2500TL Single Tracker	Sunny Boy 3000TL Single Tracker
<b>Input (DC)</b>		
Max. DC power (@ cos φ = 1)	2650 W	3200 W
Max. input voltage	750 V	750 V
MPP voltage range / rated input voltage	180 - 500 V / 400 V	213 - 500 V / 400 V
Min. input voltage / start 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
<b>Output (AC)</b>		
Rated power (@ 230 V, 50 Hz)	2500 W	3000 W
Max. apparent AC power	2500 VA	3000 VA
Nominal AC 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
Displacement power factor, adjustable	0.8 overexcited ... 0.8 underexcited	0.8 overexcited ... 0.8 underexcited
Feed-in phases / connection phases	1 / 1	1 / 1
<b>Efficiency</b>		
Max. efficiency / European weighted efficiency	97% / 96.0%	97% / 96.1%
<b>Protective devices</b>		
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 (as per IEC 62103) / overvoltage category (as per IEC 60664-1)	I / III	I / III
<b>General data</b>		
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 (at night)	1 W	1 W
Topology / cooling concept	transformerless / convection	transformerless / convection
Degree of protection (per IEC 60529)	IP65	IP65
Climatic category (as per IEC 60721-3-4)	4K4H	4K4H
Maximum permissible value for relative humidity (non-condensing)	100%	100%
<b>Features</b>		
DC connection / AC connection	SUNCLIX / spring clamp terminal	SUNCLIX / spring clamp terminal
Display	chart	chart
Interfaces: RS485 / Bluetooth® / Webconnect / Speedwire <sup>2</sup>	○ / ● / ○ / ○	○ / ● / ○ / ○
Multi-function relay / Power Control Module	○ / ○	○ / ○
Warranty: 5 / 10 / 15 / 20 / 25 years	● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○
Certificates and approvals (more upon request)	CE, VDE 0126-1-1, VDE-AR-N 4105, C10/11, G83/1-1, G59/2	
Certificates and approvals (planned)	RD 1699/2011, PPC, RD 661/2007, AS 4777, EN 50438 <sup>1</sup> , PPDS, IEC61727, SI4777, UTE C15-712-1, CEI 0-21	
Version: November 2012 / ● Standard features ○ Optional features - Not available, Data at nominal conditions		
Type designation	SB 2500TLST-21	SB 3000TLST-21