

SUNNY BOY 2500TL / 3000TL SINGLE TRACKER



SB 2500TLST-21 / SB 3000TLST-21



Economical

- Maximum DC input voltage of 750 V
- Cost savings resulting from 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

Easy to Use

- Fanless
- Simplified wall mounting
- SUNCLIX DC plug-in system
- Fast connection without tools

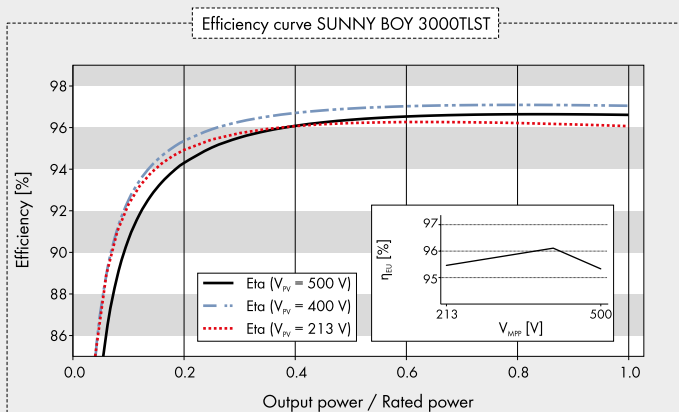
Communicative

- Simple country configuration
- Bluetooth® and Speedwire/Webconnect technology as standard

SUNNY BOY 2500TL / 3000TL SINGLE TRACKER

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

The same Sunny Boy. Only better. 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.



Accessory



RS485 interface
DM-485CB-10



Speedwire/Webconnect
interface SWDM-10



Multifunction relay
MFR01-10



Additional fan kit
FANKIT01-10



Power Control Module
PWCMOD-10

¹ Does not apply to all national appendices of EN 50438

Technical Data

Input (DC)

Max. DC power (at $\cos \varphi = 1$)
Max. input voltage
MPP voltage range / rated input voltage
Min. input voltage / initial input voltage
Max. input current
Max. input current per string
Number of independent MPP inputs / strings per MPP input

Output (AC)

Rated power (@ 230 V, 50 Hz)
Max. AC apparent power
Nominal AC voltage
Nominal AC voltage range
AC power frequency / range
Rated power frequency / rated grid voltage
Max. output current
Power factor at rated power
Adjustable displacement power factor
Feed-in phases / connection phases

Efficiency

Max. efficiency / European weighted efficiency
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Protective Devices

DC-side disconnection point
Ground fault monitoring / grid monitoring
DC reverse polarity protection / AC short-circuit capability / galvanically isolated
All-pole sensitive residual-current monitoring unit
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)

General Data

Dimensions (W / H / D)
Weight
Operating temperature range
Noise emission (typical)
Self-consumption (at night)
Topology / cooling method
Degree of protection (according to IEC 60529)
Climatic category (according to IEC 60721-3-4)
Maximum permissible value for relative humidity (non-condensing)

Features

DC connection
AC connection
Display
Interfaces: RS485, Bluetooth®, Speedwire/Webconnect
Multifunction relay / SMA Power Control Module
Warranty: 5 / 10 / 15 / 20 / 25 years
Certificates and approvals (others available upon request)

● Standard features ○ Optional features — Not available, Data at nominal conditions

Type designation

Sunny Boy 2500TL Single Tracker

2650 W
750 V
180 V to 500 V / 400 V
125 V / 150 V
15 A
15 A
1 / 2

2500 W
2500 VA
220 V / 230 V / 240 V
180 V to 280 V
50 Hz, 60 Hz / -5 Hz to +5 Hz
50 Hz / 230 V
10.9 A
1
0.8 lagging to 0.8 leading
1 / 1

97 % / 96 %
○
● / ●
● / ● / —
●
I / III

490 / 519 / 185 mm (19.3 / 20.4 / 7.3 inch)
23 kg (50.6 lb)
-25 °C to +60 °C (-13 °F to +140 °F)
25 dB(A)
1 W
Transformerless / convection
IP65
4K4H
100 %

SUNCLIX
Spring-cage terminal
Graphic
○ / ● / ●
○ / ○
● / ○ / ○ / ○ / ○

AS 4777, C10/11, CE, CEI 0-21, EN 50438¹, G59/3, G83/2, IEC 61727, NEN-EN50438, NRS 097-2-1, PPC, PPDS, RD1699, RD 661, SI 4777, UTE C15-712, VDE-AR-N 4105, VDE0126-1-1, VFR 2013, VFR 2014

SB 2500TLST-21

Sunny Boy 3000TL Single Tracker

3200 W
750 V
213 V to 500 V / 400 V
125 V / 150 V
15 A
15 A
1 / 2

3000 W
3000 VA
220 V / 230 V / 240 V
180 V to 280 V
50 Hz, 60 Hz / -5 Hz to +5 Hz
50 Hz / 230 V
13.1 A
1
0.8 lagging to 0.8 leading
1 / 1

97 % / 96.1 %
○
● / ●
● / ● / —
●
I / III

490 / 519 / 185 mm (19.3 / 20.4 / 7.3 inch)
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