



Efficient

- Maximum efficiency of 97 %
- Multistring technology in all power classes
- Cost savings resulting from fewer parallel strings
- Shade management with OptiTrac Global Peak

Flexible

- Maximum DC input voltage of 750 V
- Integrated grid management functions and reactive power provision

Easy-to-Use

- Simplified wall mounting
- SUNCLIX DC plug-in system
- Fast connection, no tools required

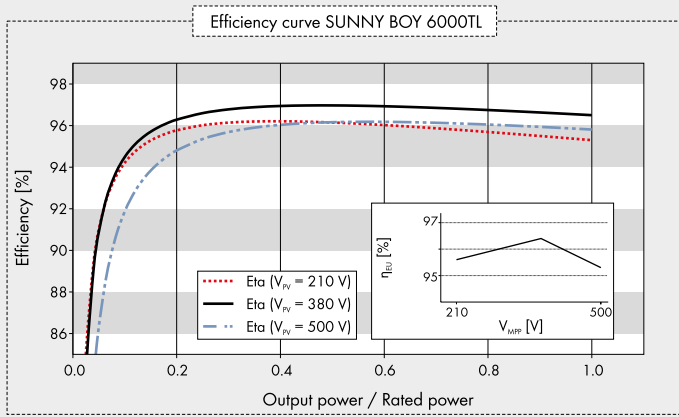
Communication capabilities

- Simple country configuration
- *Bluetooth*® technology as standard

SUNNY BOY 6000TL With Reactive Power Control

The same. Only better. The universal Sunny Boy.

Getting better all the time. The new transformerless Sunny Boy is the ideal solution, especially for demanding PV arrays and partly shaded systems. Version 20 of the successful Sunny Boy offers a further array of advantages. It's more flexible in its range of applications, provides even more efficient yields, and it's easier to use. The high DC voltage of 750 V creates a cost advantage, since fewer parallel strings are required. In addition, the integrated grid management functions make the device suitable for universal applications and allow them to actively support the grid.



Accessory



RS485 interface
DM-485CB-10



Speedwire / Webconnect
interface SWDM-10

Version: May 2014

Technical Data

Input (DC)

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

Output (AC)

Rated power (@ 230 V, 50 Hz)
Max. AC apparent power
Nominal AC voltage / range
AC grid 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 efficiency

Protective devices

DC disconnect device
Ground fault monitoring / grid monitoring
DC reverse polarity protection/AC short circuit capability/galvanically isolated
All-pole sensitive residual-current monitoring unit
Protection class (as per IEC 62103)/overvoltage category (as per 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 (as per IEC 60529)
Climatic category (as per 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 / Power Control Module
Guarantee: 5 / 10 / 15 / 20 / 25 years
Certificates and permits (more available on request)

● Standard features ○ Optional features – Not available / Data at nominal conditions

Note: Technical data is preliminary and subject to change

Type designation

Sunny Boy 6000TL

6280 W
750 V
210 V ... 500 V/380 V
125 V / 150 V
15 A / 15 A
15 A / 15 A
2 / A:2; B:2
6000 W
6000 VA
220 V, 230 V, 240 V / 180 V to 280 V
50 Hz, 60Hz / -5 Hz to +5 Hz
50 Hz / 230 V
26.1 A
1
0.8 overexcited ... 0.8 underexcited
1 / 1
97 % / 96.4 %

–
● / ●
● / ● / –
●
I / III

490 / 488 / 185 mm (19.3 / 19.2 / 7.3 inch)
27 kg (59.5 lb)
-25 °C to +60 °C (-13 °F to +140 °F)
29 dB(A)
1 W
Transformerless
OptiCool
IP65
4K4H
100 %

SUNCLIX / spring-cage terminal
Graphic
○ / ● / ○
● / –
● / ○ / ○ / ○ / ○ / ○
CEI 0-21

SB 6000TL-21