

SUNNY TRIPOWER 15000TL / 20000TL ECONOMIC EXCELLENCE

STP 15000TL-10 / STP 20000TL-10



Economical

- Maximum efficiency 98.5 %
- OptiTrac for best MPP tracking efficiency

- Active temperature management with OptiCool
- Bluetooth® communication

Simple

- Three-phase feed-in
- Cable connection without tools
- SUNCLIX DC plug-in system

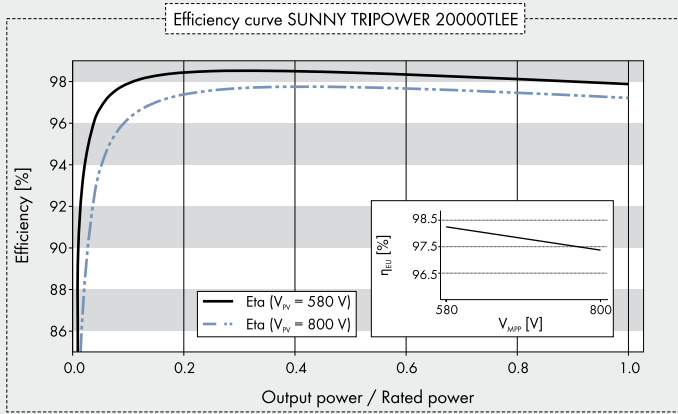
Flexible & future-proof

- DC input voltage up to 1,000 V
- Integrated grid management functions
- Reactive power capability

SUNNY TRIPOWER 15000TL /20000TL ECONOMIC EXCELLENCE

The expert cost saver for high-yield, commercial plants

Peak performance at a significantly reduced specific price: the new Sunny Tripower TL Economic Excellence is the next logical step in the development of the Sunny Tripower series in terms of achieving an optimum price-performance ratio. On the one hand, it brings with it a considerable reduction in investment costs, while on the other hand guaranteeing exceptionally high yields with an efficiency of 98.5 %. Hence, the Sunny Tripower TL Economic Excellence is the ideal inverter solution for uniformly structured PV plants on the medium to very large scale. The focus is on the essentials and meets all requirements, including reactive power provision, grid support, and grid management integration.



Accessories



RS485 interface
DM-485CB-10



Speedwire/Webconnect
interface SWDM-10



Multi-function relay
MFR01-10



Power Control Module
PWCMOD-10

* Does not apply to all national appendices of EN 50438
Provisional data, as of June 2014

Provisional Technical Data

Input (DC)

Max. DC power (@ cos φ = 1)
Max. input voltage
MPP voltage range with a line voltage of 230 V / rated input voltage
Min. input voltage / start 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. apparent AC 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
Displacement power factor, adjustable
Feed-in phases / connection phases

Efficiency

Max. efficiency / European weighted efficiency
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Protective devices

DC-side disconnection device
Ground fault monitoring / grid monitoring
DC surge arrester (type II), can be integrated
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)

General data

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

Features

DC terminal
AC connection
Display
Interfaces: RS485, Bluetooth®, Speedwire/Webconnect
Multi-function relay / Power Control Module
Warranty: 5 / 10 / 15 / 20 / 25 years
Certificates and approvals (more available on request)

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

Type designation

Sunny Tripower 15000TL

15 260 W
1 000 V
580 V – 800 V / 580 V
570 V / 620 V
36 A
36 A
1 / 6
15 000 W
15 000 VA
3 / N / PE, 230 V / 400 V
160 V – 280 V
50 Hz, 60 Hz / -6 Hz, +5 Hz
50 Hz / 230 V
24 A
1
0 overexcited ... 0 underexcited
3 / 3
○
● / ●
–
● / ● / –
●
I / III
665 / 680 / 265 mm (26.2 / 26.8 / 10.4 inch)
45 kg (99.2 lb)
-25 °C ... +60 °C (-13 °F ... +140 °F)
51 dB(A)
1 W
Transformerless / OptiCool
IP65
4K4H
100%
SUNCLIX
Spring clamp terminal
Chart
○ / ● / ○
○ / ○
● / ○ / ○ / ○ / ○
AS 4777, BDEW 2008, C10/11:2012, CE, CEI 0-21, CEI 0-16 EN 50438*, G59/3, IEC 61727 (MEA/PEA), IEC 62109-1/-2, NEN EN 50438, PPC, PPDs, RD 1699, RD 661/2007, SI4777, UTE C15-712-1, VDE 0126-1-1, VDEAR-N 4105
STP 15000TLEE-10

Sunny Tripower 20000TL

20 450 W
1 000 V
580 V – 800 V / 580 V
570 V / 620 V
36 A
36 A
1 / 6
20 000 W
20 000 VA
3 / N / PE, 230 V / 400 V
160 V – 280 V
50 Hz, 60 Hz / -6 Hz, +5 Hz
50 Hz / 230 V
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1
0 overexcited ... 0 underexcited
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STP 20000TLEE-10