

SUNNY TRIPOWER 20000TL / 25000TL

STP 20000TL-30 / STP 25000TL-30



Efficient

- Maximum efficiency of 98.4 %

Safe

- DC surge arrester (SPD type II) can be integrated

Flexible

- DC input voltage of up to 1,000 V
- Multistring capability for optimum system design

Innovative

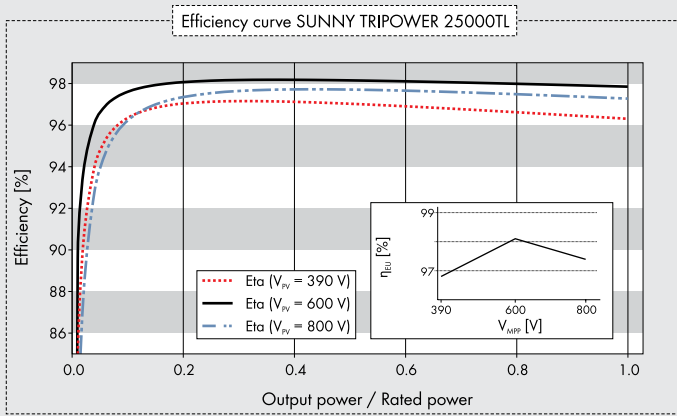
- Cutting-edge grid management functions with Integrated Plant Control*
- Reactive power available 24/7 (QonDemand24/7)*

SUNNY TRIPOWER 20000TL / 25000TL

The versatile specialist for large-scale commercial plants and solar power plants

The Sunny Tripower 20000TL/25000TL is the ideal inverter for large-scale commercial and industrial plants. Not only does it deliver extraordinary high yields with an efficiency of 98.4 %, but it also offers enormous design flexibility and compatibility with many PV modules thanks to its multistring capabilities and wide input voltage range.

The future is now: the Sunny Tripower 20000TL/25000TL comes with cutting-edge grid management functions such as Integrated Plant Control*, which allows the inverter to regulate reactive power at the point of common coupling. Separate controllers are no longer needed, lowering system costs. Another new feature—reactive power provision on demand (QonDemand24/7).*



Accessories



RS485 interface
DM-485CB-10



Power Control Module
PWCMOD-10



DC surge arrester (Type II), inputs A and B DCSPD
KIT3-10



Speedwire/Webconnect interface
SWDM-10



Multifunction relay
MFR01-10

¹ Does not apply to all national appendices of EN 50438

● Standard features ○ Optional features – Not available
Data at nominal conditions
Last updated: August 2014

Technical Data

Input (DC) Input (DC)

Max. DC power (@ cos φ = 1)

Max. input voltage

MPP voltage range / rated input voltage

Min. input voltage / start input voltage

Max. input current 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

AC nominal voltage

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-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 (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 concept

Degree of protection (as per IEC 60529)

Climatic category (according to IEC 60721-3-4)

Maximum permissible value for relative humidity (non-condensing)

Features

DC connection / AC connection

Display

Interface: RS485, Speedwire/Webconnect

Multifunction relay / Power Control Module

Guarantee: 5 / 10 / 15 / 20 / 25 years

Planned certificates and permits (more available on request)

Type designation

Sunny Tripower 20000TL

20440 W

1000 V

320 V to 800 V / 600 V

150 V / 188 V

33 A / 33 A

2 / A:3; B:3

20000 W

20000 VA

3 / N / PE; 220 / 380 V

3 / N / PE; 230 / 400 V

3 / N / PE; 240 / 415 V

160 V to 280 V

50 Hz, 60 Hz / -6 Hz to +5 Hz

50 Hz / 230 V

29 A

1

0 overexcited to 0 underexcited

3 / 3

98.4 % / 98.0 %

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● / ●

○

● / ● / -

●

I / III

665 / 690 / 265 mm

(26.2 / 27.2 / 10.4 inch)

61 kg (134.48 lb)

-25 °C to +60 °C (-13 °F to +140 °F)

51 dB(A)

1 W

Transformerless / Opticool

IP65

4K4H

100 %

SUNCLIX / spring-cage terminal

-

○ / ●

○ / ○

● / ○ / ○ / ○ / ○

Sunny Tripower 25000TL

25550 W

1000 V

390 V to 800 V / 600 V

150 V / 188 V

33 A / 33 A

2 / A:3; B:3

25000 W

25000 VA

3 / N / PE; 220 / 380 V

3 / N / PE; 230 / 400 V

3 / N / PE; 240 / 415 V

160 V to 280 V

50 Hz, 60 Hz / -6 Hz to +5 Hz

50 Hz / 230 V

36.2 A

1

0 overexcited to 0 underexcited

3 / 3

98.3 % / 98.1 %

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● / ●

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● / ● / -

●

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AS 4777, BDEW 2008, C10/11, CE, CEI 0-16, CEI 0-21, EN 50438¹,
G59/3, IEC61727, IEC 62109-1/2, NEN EN 50438, NRS 097-2-1,
PPC, RD 1699, RD 661/2007, SI4777, UTE CE15-712-1, VDE 0126-1-1,
VDE-AR-N 4105, VFR 2014

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