

# SUNNY TRIPOWER 15000TL

STP 15000TL-10



**NEW** – With Cutting-Edge  
Grid Management Functions

## Efficient

- Maximum efficiency of 98.2 %
- SMA OptiTrac Global Peak MPP tracking for best MPP tracking efficiency

## Reliable

- Triple protection with Optiprotect—electronic string fuse, self-learning string failure detection, integrable DC surge arrester (SPD Type II)

## Flexible

- DC input voltage of up to 1000 V
- Tailor-made system design with Optiflex

## Innovative

- Cutting-edge grid management functions
- Reactive power available 24/7 (Q on Demand)\*

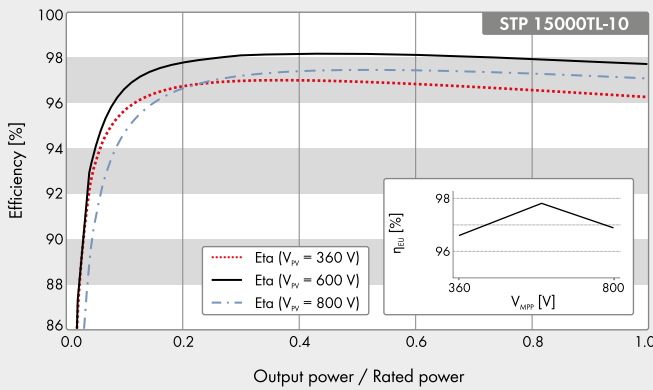
## SUNNY TRIPOWER 15000TL

### The Three-Phase Inverter for Easy PV System Design

The Sunny Tripower 15000TL has new, cutting-edge features: The integration of grid management functions, including Integrated Plant Control, allows the inverter to regulate reactive power at the grid-connection point. This means that upstream regulator units are no longer needed, and system costs are lowered. Another innovation is around-the-clock provision of reactive power (Q on Demand 24/7).

Optiflex technology and the Optiprotect safety concept remain proven standards: Optiflex provides enormous design flexibility with the two MPP inputs in connection with a broad input voltage range - and does it for almost all module configurations. The Optiprotect safety concept, with its self-learning string failure detection, electronic string fuse and integrable DC surge arrester type II, ensures maximum reliability.

### Efficiency Curve



### Accessory



RS485 interface  
DM-485CB-10



SMA Power Control Module  
PWCMOD-10



DC surge arrester (Type II),  
inputs A and B  
DC\_SPD\_KIT\_2-10



Speedwire/Webconnect  
interface SWDM-10



Multifunction relay  
MFR01-10

● Standard features ○ Optional features –Not available  
Data at nominal conditions  
Status: January 2016

### Technical Data

#### Input (DC)

Max. DC power (at  $\cos \phi = 1$ ) / DC rated power

Max. input voltage

MPP Voltage range / rated input voltage

Min. input voltage / initial input voltage

Max. input current input A / input B

Max. input current per string input A1 / input B1

Max. DC short-circuit current input A / input B

Number of independent MPP inputs/strings per MPP input

#### Output (AC)

Rated power (at 230 V, 50 Hz)

Max. AC apparent power

Nominal AC voltage

AC voltage range

AC power frequency / range

Rated power frequency/rated grid voltage

Max. output current / Rated output current

Power factor at rated power / Adjustable displacement power factor

THD

Feed-in phases/connection phases

#### Efficiency

Max. efficiency / European efficiency

#### Protective devices

Input-side disconnection point

Ground fault monitoring / grid monitoring

DC surge arrester SPD type III / SPD type II

DC reverse polarity protection / AC short-circuit current capability / galvanically isolated

All-pole sensitive residual-current monitoring unit / Electronic string current monitoring

Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1)

#### 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)

Max. permissible value for relative humidity (non-condensing)

#### Features / function

DC connection / AC connection

Display

Interface: RS485, Bluetooth®, Speedwire / Webconnect

Data interface: SMA Modbus / SunSpec Modbus

Multifunction relay / Power Control Module

OptiTrack Global Peak/Integrated Plant Control/Q on Demand 24/7

Off-Grid capable/SMA Fuel Save Controller compatible

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

Certificates and approvals (others available upon request)

<sup>1</sup> To be observed in the event of short-circuit of the string fuse.

<sup>2</sup> Does not apply to all national appendices of EN 50438

### Sunny Tripower 15000TL

15340 W / 15340 W

1000 V

360 V to 800 V / 600 V

150 V / 188 V

33 A / 11 A

40 A / 12.5 A

50 A / 17 A

2 / A; 5; B:1

15000 W

15000 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 / 44 Hz to 55 Hz

60 Hz / 54 Hz to 65 Hz

50 Hz / 230 V

24 A / 24 A

1 / 0 lagging to 0 leading

≤ 3 %

3 / 3

98.2% / 97.8%

●

●/●

●/○

●/●/–

●/●

I / AC: III; DC: II

665 / 690 / 265 mm (26.2 / 27.2 / 10.4 inches)

59 kg (130.07 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

Graphic

○/●/○

○/○

○/○

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AS 4777, BDEW 2008, C10/11:2012, CE, CEI 0-16, CEI 0-21, EN 50438<sup>1</sup>; G59/3, IEC 60068-2, IEC 61727, MEA 2013, IEC 62109-1/2, NEN EN 50438, PPC, PPDS, RD 1699, RD 661/2007, SI4777, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105, VFR 2013, VFR 2014

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