

COMPLETES YOUR PROJECT



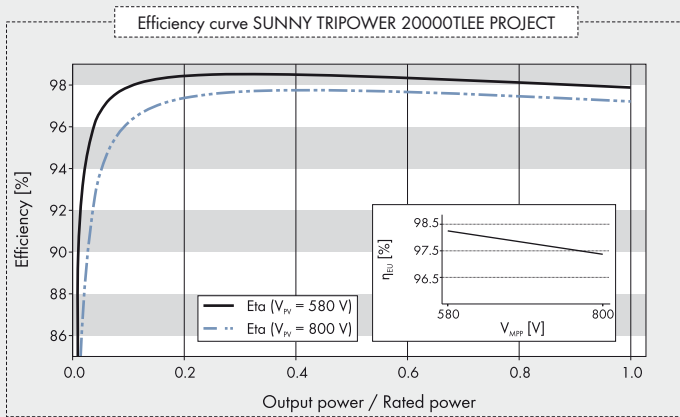
SUNNY TRIPOWER 15000/20000TL ECONOMIC EXCELLENCE **PROJECT**

Developed for the unique requirements of project business and built with experience from more than 30 GW of installed total PV power, the SUNNY TRIPOWER 15000/20000TL ECONOMIC EXCELLENCE PROJECT by SMA offers only the best.

Scaled to the essential features for decentralized large-scale PV systems, it also offers exceptional performance with an efficiency of 98.5 percent.

The SUNNY TRIPOWER 15000/20000TL ECONOMIC EXCELLENCE PROJECT makes it easy for you in every way. With the significantly improved module compatibility (3x higher), system design is more versatile and efficient than ever before. In addition, it is absolutely future-proof by fulfilling all current and planned grid management functions – anywhere in the world¹⁾.

1) Except Canada, Japan and U.S.



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

● Standard features ○ Optional features – Not available
Data at nominal conditions
Provisional data, as of July 2013

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)

Type designation

Sunny Tripower 15000TLEE PROJECT

Sunny Tripower 20000TLEE PROJECT

15 260 W	20 450 W
1 000 V	1 000 V
580 V – 800 V / 580 V	580 V – 800 V / 580 V
570 V / 620 V	570 V / 620 V
36 A	36 A
36 A	36 A
1 / 6	1 / 6
15 000 W	20 000 W
15 000 VA	20 000 VA
3 / N / PE, 230 V / 400 V	3 / N / PE, 230 V / 400 V
160 V – 280 V	160 V – 280 V
50 Hz, 60 Hz / –6 Hz, +5 Hz	50 Hz, 60 Hz / –6 Hz, +5 Hz
50 Hz / 230 V	50 Hz / 230 V
24 A	29 A
1	1
0.8 overexcited ... 0.8 underexcited	0.8 overexcited ... 0.8 underexcited
3 / 3	3 / 3
98.5% / 98.3%	98.5% / 98.2%
●	●
● / ●	● / ●
–	–
● / ● / –	● / ● / –
●	●
I / III	I / III
665 / 680 / 265 mm (26.2 / 26.8 / 10.4 inch)	665 / 680 / 265 mm (26.2 / 26.8 / 10.4 inch)
45 kg (99.2 lb)	45 kg (99.2 lb)
–25 °C ... +60 °C (–13 °F ... +140 °F)	–25 °C ... +60 °C (–13 °F ... +140 °F)
51 dB(A)	51 dB(A)
1 W	1 W
Transformerless / OptiCool	Transformerless / OptiCool
IP65	IP65
4K4H	4K4H
100%	100%
SUNCLIX	SUNCLIX
Spring clamp terminal	Spring clamp terminal
–	–
○ / ● / ○	○ / ● / ○
○ / ○	○ / ○
● / ○ / ○ / ○ / ○	● / ○ / ○ / ○ / ○
AS 4777, BDEW 2008, C10/11, CE, CEI 0-21, EN 50438*, G59/2, IEC 61727, 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	
STP 15000TLEE-10	STP 20000TLEE-10