SUNNY TRIPOWER 15000TL / 20000TL ECONOMIC EXCELLENCE





Economical

- \bullet 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

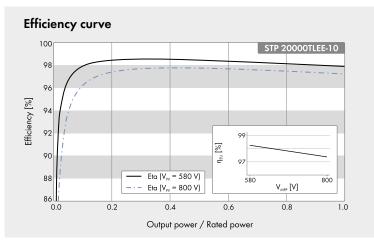
Flexible & future-proof

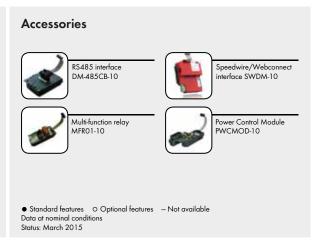
- DC input voltage up to 1,000 V
- Integrated grid management functions
- Reactive power capability

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.





Technical Data	Sunny Tripower 15000TL	Sunny Tripower 20000TL
Input (DC)		
Max. DC power (@ cos φ = 1) / DC rated power	15 260 W / 15 260 W	20 450 W / 20 450 W
Max. input voltage	1 000 V	1 000 V
MPP voltage range with a line voltage of 230 V / rated input voltage	580 V - 800 V / 580 V	580 V - 800 V / 580 V
Min. input voltage / start input voltage	570 V / 620 V	570 V / 620 V
Max. input current	36 A	36 A
Max. input current per string	36 A	36 A
Number of independent MPP inputs / strings per MPP input	1/6	1/6
	1 / 0	170
Output (AC)	15,000 \\	20 000 W
Rated power (@ 230 V, 50 Hz)	15 000 W	
Max. apparent AC power	15 000 VA	20 000 VA
AC nominal voltage	3 / N / PE, 230 V / 400 V	
AC voltage range	160 V - 280 V	
AC power frequency / range	50 Hz / 44 Hz 55 Hz 60 Hz / 54 Hz 65 Hz	
Rated power frequency / rated grid voltage	50 Hz / :	230 V
Max. output current / Rated output current	24 A / 24 A	29 A / 29 A
Power factor at rated power / Displacement power factor, adjustable	1 / 0 overexcited	. 0 underexcited
THD	≤ 2,6 %	
Feed-in phases / connection phases	3/3	
Efficiency		
Max. efficiency / European weighted efficiency	98.5% / 98.3%	98.5% / 98.2%
Protective devices	,	,
Input-side disconnection point	0	
Ground fault monitoring / grid monitoring	• / •	
DC surge arrester (SPD type III / SPD type II) can be integrated	• / -	
DC reverse polarity protection / AC short-circuit current capability / galvanically isolated	• / -	
	• / • / -	
All-pole-sensitive residual-current monitoring unit	1 / AC III DC II	
Protection class (as per IEC 62109-1) / overvoltage category (as per IEC 62109-1) General data	I / AC: III;	
Dimensions (W/H/D)	665 / 680 / 265 mm (26.2 / 26.8 / 10.4 inch)	
Weight	45 kg (99.2 lb)	
Operating temperature range	-25 °C +60 °C (-13 °F +140 °F)	
Noise emission (typical)	51 dB(A)	
Self-consumption (at night)	1 W	
Topology / cooling concept	Transformerless / OptiCool	
Degree of protection (per IEC 60529)	IP65	
Climatic category (as per IEC 60721-3-4)	4K4H	
Maximum permissible value for relative humidity (non-condensing)	100%	
Features / function	100	
DC terminal / AC connection	SUNCLIX / Spring clamp terminal	
Display	Chart	
1 /	o / ● / o	
Interfaces: RS485, Bluetooth®, Speedwire/Webconnect	0/0/0	
Data interface: SMA Modbus / SunSpec Modbus		
Multi-function relay / Power Control Module	0/0	
Integrated Plant Control / Q on Demand 24/7	• / •	
Off-Grid capable / SMA Fuel Save Controller compatible	•/•	
Warranty: 5 / 10 / 15 / 20 / 25 years	•/0/0/0/0	
Certificates and approvals (more available on request)	ANRE 30, AS 4777, BDEW 2008, C10/11:2012, CE, CEI 0-16, CEI 0-21, EN 50438	
* Does not apply to all national appendices of EN 50438	G59/3, IEC 60068-2-x, IEC 61727, IEC 62109-1/-2, IEC 62116, MEA 2013, NEN EN 50438, PEA 2013, PPC, PPDS, RD 1699/413, RD 661/2007, SI4777, UTE C15-712-1, VDE 0126-1-1, VDE-AR-N 4105	
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