

SMA Tripower 12000-TL-10



SMA_Tripower_120_4e32ab48f11ab.png

SMA Tripower 12000TL-10, trafo-loze 12250 Wp 3-fase omvormer in een fraaie behuizing, incl. grafisch display, Sunclix stekkers en ESS.

Waardering Nog niet gewaardeerd

Prijs

[Stel een vraag over dit artikel](#)

Fabrikant [SMA](#)

Beschrijving

Efficient

- Maximum rendement van 98.1 %
- Hoge tracking rendement dankzij OptiTrac MPP tracking
- *Bluetooth* communicatie

Veilig

- 3-voudige protectie met Optiprotect:
- Electronische string zekeringen
- Zelf-lerend string fout detectie
- DC overspanningsbeveiliging (Type II) kan worden geïntegreerd

Flexibel

- DC voltage tot 1 000 V
- Geïntegreerde net management functies
- Optiflex biedt maximale flexibiliteit m.b.t. PV-ontwerp

Simpel

- 3-fase

- Kabel verbindingen zonder gereedschap
- SUNCLIX DC stekkers
- Makkelijk toegankelijke connector deel

	Sunny Tripower 12000TL
Input (DC)	
Max. DC power (@ cos φ=1)	12250 W
Max. input voltage	1000 V
MPP voltage range / rated input voltage	380 V – 800 V / 600 V
Min. input voltage / initial input voltage	150 V / 188 V
Max. input current input A / input B	22 A / 11 A
Max. input current per string input A** / input B**	33 A / 12.5 A
Number of independent MPP inputs / strings per MPP input	2 / A:4; B:1
Output (AC)	
Rated power (@ 230 V, 50 Hz)	12000 W
Max. apparent AC power	12000 VA
Nominal AC voltage	3 / N / PE; 220 / 380 V 3 / N / PE; 230 / 400 V 3 / N / PE; 240 / 415 V
Nominal AC voltage range	160 V – 280 V
AC power frequency / range	50 Hz, 60Hz / -6 Hz ... +5 Hz
Rated grid frequency / rated grid voltage	50 Hz / 230 V
Max. output current	19.2 A
Power factor at rated power	1
Adjustable displacement factor	0.8 overexcited ... 0.8 underexcited
Phase conductors / connection phases	3 / 3
Efficiency	
Max. efficiency / European efficiency	98.1 % / 97.7 %
Protection	
Input-side disconnection device	yes
Ground-fault monitoring / grid monitoring	yes / yes
DC surge arrester Type II, can be integrated	opt.
DC reverse-polarity protection / AC short-circuit current capability / galvanically isolated	yes / yes / —
All-pole sensitive residual current monitoring unit	yes
Protection class (according to IEC 62103) / overvoltage category (according to IEC 60664-1)	I / III
General Data	
Dimensions (W / H / D)	665 / 690 / 265 mm (26.2 / 27.2 / 10.4 inch)
Weight	64 kg / 141.1 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 / degree of protection of connection area (according to IEC 60529)	IP65 / IP54
Climatic category (according to IEC 60721-3-4)	4K4H
Maximum permissible value for relative humidity (non-condensing)	100 %
Features	
DC terminal	SUNCLIX
AC terminal	Spring-type terminal
Display	Graphic
Interface: RS485 / Bluetooth	opt. / yes
Warranty: 5 / 10 / 15 / 20 / 25 years	yes / opt. / opt. / opt. / opt.
Multi-function relay	yes
Certificates and approvals (more available on request)	CE, VDE0126-1-1, G83/1-1, RD 1663/2000, RD 661/2007, G59/2, PPC, AS4777, EN 50438*, C10/11, PPDS, IEC 61727, ENEL-Guida, UTE C15-712-1
* Does not apply to all national deviations of EN 50438	
** To be observed in case of a short circuit in the electronic string fuse	
Data at nominal conditions	
Type designation	STP 12000TL-10

