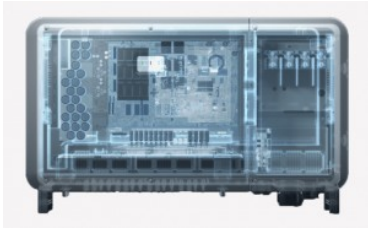


SUNNY TRIPower CORE2 - STP 110-60

Flexible system design and highest yields thanks to integrated features.



Sunny Tripower CORE2



Sunny Tripower CORE2

Flexible system design for **larger commercial PV systems**: The Sunny Tripower CORE2 is the ideal inverter for decentralized system structures up to the megawatt range. With 110 kilowatts, 24 strings and 12 MPP trackers, the Sunny Tripower CORE2 allows for a particularly high solar coverage in ground-mounted PV systems as well as at different roof pitches during the day.

The integrated **SMA ShadeFix** software solution automatically optimizes system performance anytime, even with partially shaded modules.

The automatic monitoring service **SMA Smart Connected** also ensures maximum PV system yields by detecting failures as fast as possible.

With the Sunny Tripower CORE2 as a central component of the **SMA Energy System Business**, installers and PV system operators will benefit from the high-quality components from a single source and future-proof options to expand their systems by **SMA storage solutions**.

More options.

More integration.

More performance.

Ultimate flexibility in system design for large-scale commercial solutions for ground-mounted and rooftop systems. Core element of the SMA Energy System Business ready to be extended to meet future requirements. Out-of-the-box solution with yield optimization to ensure efficient installation and service.

Installation concept ensures maximum yields.

- No DC Combiner required
- Best in class: 110 kW with 400 VAC as standard
- Several tried-and-tested handles included
- High environmental resistance
- SMA ShadeFix and SMA Smart Connected for consistent optimum yields

Intelligent integrated features

SMA ShadeFix

SMA ShadeFix is a patented, integrated software solution that optimizes energy yields in PV systems. SMA ShadeFix outperforms most conventional hardware solutions for shade management in PV systems.

SMA Smart Connected


Automated inverter monitoring optimizes services and delivers maximum yields.

SPECIFICATIONS

Sunny Tripower CORE2	
Input (DC)	
Máx. PV array power	165.000 Wp STC
Max. input voltage	1100 V
MPP voltage range	500 to 800 V
Rated input voltage	585 V
Min. input voltage / Start input voltage	200 / 250 V
Max.x input current per MPP Tracker	26 A
Max. short-circuit current per MPP Tracker	40 A
Number of independent MPP trackers	12
Strings per MPP tracker	2
Output (AC)	
Rated power at nominal voltage	110.000 W
Max. apparent AC power	110.000 VA
Nominal AC voltage	400 V
AC voltage range	320 to 460 V
AC grid frequency / range	50 Hz / 45 - 55 Hz.
Rated grid frequency	50 Hz
Max. output current	159 A
Power factor at rated power	1
Displacement power factor adjustable	0,8 overexcited to 0,8 underexcited
Harmonic (THD)	< 3%
Feed-in phases / AC connection	3 / 3-PE
Efficiency	
Max. Efficiency	98,6 %
European efficiency	98,4 %
Protective devices	
Input-side disconnection device	Yes
Groud fault monitoring / grid monitoring / DC reverse or polarity protection	Yes / Yes / Yes
AC short-circuit current capability	Yes
Galvanically isolated	No
All-pole sensitive residual-current monitoring unit	Yes
Monitored surge arrester (Type II) AC / DC	Yes / Yes
Protection class (according to IEC 62109-1)	I/CA: III
Surge category (according to IEC 62109-1)	CC: II
General data	
Dimmensions (w x h x d)	1117 x 682 x 363 mm
Weight	93,5 Kgr.
Operating temperature range	-30 to 60 °C
Noise emission, typical	< 65 db (A)
Self-consumption (at night)	< 5 W
Topology	Transformerless
Cooling concept	Active cooling
Degree of protection (according IEC 60529)	IP 66
Max. permissible value for relative humidity	100% (non condensing)
Features / functions / accessories	
DC connection / AC connection	Sunclix / Terminal lug (up to 240 mm2)
Led display	Status / Fault / Communication
Ethernet interface	2 ports
Data interface	Web interface / Modbus SunSpec
Mounting type	Wall / Rack mounting
Warranty	5 year (up to 20 years as optional)
Certificates and approvals	IEC 62109-1/-2, EN50549-1/-2:2018, VDE-AR-N 4105/4110/4120:2018, IEC 62116, IEC 61727, C10/C11 LV2/MV1:2018, CEI 0-16:2019, AS/NZS 4777.2, SI 4777, TOR Erzeuger type A/B
Type designation	STP 110-60

DOWNLOADS

CATÁLOGO GENERAL 2020

 [Catalogo-Bornay-0520.pdf](#)

Size: 21.51 MiB

HOJA TÉCNICA STP CORE2

 [STP110-60-DS-es-11.pdf](#)

Size: 449.56 KiB

STP CORE2 DATA SHEET

 [STP110-60-DS-en-10.pdf](#)

Size: 445.55 KiB
