SCA100/125K-T-EU

Three-Phase String Inverter
100/125kW • 12 MPPTs • 1100Vdc System

Efficient

Appealing yield

- 12 MPPTs with Max. Efficiency 98.5%
- Easily compatible with various PV modules based on max. input current 30A per MPPT
- Superb temperature performance, full power at 50°C(SCA100K-T-EU)
- >150% DC/AC ratio

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter+CT

Safe

Solid quality

- Durable and robust component
- IP66&C5 protection
- Type II SPD for both DC and AC

Model Name	SCA100K-T-EU	SCA125K-T-EU
DC Input		
Max. DC Voltage	1100Vdc	
MPPT Operating Voltage Range	200 - 950Vdc	
Start Voltage	300Vdc	
Rated DC Voltage	615Vdc	
Number of MPPT	12	
Number of DC Connection Sets per MPPT	2	
Max. input current per MPPT	30A	
Max. DC short-circuit current per MPPT	45A	
String Fuse	/	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	100kW	125kW
Max. AC Power	110kVA	125kVA
Rated AC Voltage	380 / 400V	
AC Voltage Range[1]	322 - 528V	
Grid Connection Type	3Φ / N / PE	
Max. AC Current	167.2	190A
Grid Frequency	50 / 60Hz	
Grid Frequency Range[1]	45-55 / 55-65Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
AC Disconnection Type	/	
System Data		
Topology	Transformerless	
Max. Efficiency	98.11%	98.50%
Euro Efficiency	98.00%	98.10%
Consumption at Night	<6W	
Protection		
DC reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
Surge Protection	DC Type II / AC Type II	
AFCI	Optional	
Environment Data		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485/Wi-Fi (Standard) & 4G (Optional)	
Mechanical Data		
Dimensions (W*H*D)	1050 * 660 * 340mm	
Weight	90kg	
DC Connection Type	MC4 (Max. 6mm²)	
AC Connection Type	OT/DT Terminal(Max. 120mm²)	
Safety		
Certifications[2]	IEC61000, IEC/EN 62109, IEC61727/62116, EN50549, NC RFG, CEI 0-16, CEI 0-21, UNE217001, UNE 217002, NTS_V2.1, VDE-AR-N 4110, VDE-AR-N 4105, UTE-C15	

*1 AC Power is different under different rated AC voltage.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.