

SCA75~125T-(SA)EU

Three-Phase String Inverter

75~125kW • 9/12 MPPTs • 1100Vdc System



Efficient

Appealing yield

- 9/12 MPPTs with Max. Efficiency 98.64%
- Easily compatible with various PV modules based on max. input current 30A per MPPT
- AFCI function standard
- Up to 170% DC/AC ratio
- Support Y connector

Smart

Pragmatic option

- Communication interfaces [RS485/Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring

Safe

Solid quality

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

Model Name	SCA75K-T-SA	SCA75K-T-EU	SCA100K-T-EU	SCA120K-T-EU	SCA125K-T-EU
DC Input					
Max. DC Power	127.5kW	127.5kW	150kW	180kW	187.5kW
Max. DC Voltage	1100Vdc				
MPPT Operating Voltage Range	200 - 950Vdc				
Start Voltage	300Vdc				
Rated DC Voltage	615Vdc				
Number of MPPT	9	9	12	12	12
Number of DC Connection Sets per MPPT	2	2	2	2	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	75kW	75kW	100kW	120kW	125kW
Max. AC Power	75kVA	75kVA	110kW	132kVA	125kVA
Rated AC Voltage	220V	380 / 400V			
AC Voltage Range ¹	150 - 330V	322 - 528V			
Grid Connection Type	3Φ / N / PE				
Max. AC Current	197A	114A	167.2A	201A	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	98.41%	98.64%			
Euro Efficiency	97.70%	98.40%			
Consumption at Night	<5W				
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	Yes				
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	86kg	90kg			
DC Connection Type	MC4 (Max. 6mm ²)				
AC Connection Type	OT/DT Terminal(Max. 120mm ²)				
Safety					
Certifications ²	IEC 61000-6, IEC 62109-1/2, IEC 61727, IEC 62116, INMETRO PORTARIA N°140(only for 75kW)				

¹ "AC Voltage Range" and "Grid Frequency Range" may be differ according to specific grid codes.

² The certificates are for reference only. Please consult the local sales staff for detailed certification.

³ AC Power is different under different rated AC voltage.

⁴ Transformer compatibility: this model only supports connection with IT systems, not compatible with TN/TT systems.