

SCA75~125K-T-(SA)EU

Three-Phase String Inverter
75~125kW • 9/12 MPPTs • 1100Vdc System



Efficient

Appealing yield

- 9/12 MPPTs with Max. Efficiency 98.8%
- Easily compatible with various PV modules based on max. input current 30A per MPPT
- AFCI function standard
- 200% 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
- 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	SCA75K-T-SA	SCA75K-T-EU	SCA100K-T-EU	SCA125K-T-EU
DC Input				
Max. DC Power	150kW	150kW	150kW	187.5kW
Max. DC Voltage	1100Vdc			
MPPT Operating Voltage Range	200 - 950Vdc			
MPPT Operating Voltage Range@full load	400 - 850Vdc		500 - 850Vdc	
Start Voltage	300Vdc			
Rated DC Voltage	615Vdc			
Number of MPPT	9	9	12	12
Number of DC Connection Sets per MPPT	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	125kW
Max. AC Power	75kVA	75kVA	110kVA	125kVA
Rated AC Voltage	220V	380 / 400V		
AC Voltage Range ¹	176 - 297V	322 - 528V		
Grid Connection Type	3Φ / N / PE			
Max. AC Current	197A	114A	167.2A	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%	98.11%	98.50%
Euro Efficiency	97.70%	98.40%	98.00%	98.10%
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. 6mm²)			
AC Connection Type	OT/DT Terminal(Max. 240mm²)			
Safety				
Certifications ²	IEC 61000-6, IEC 62109-1/2, IEC 61727, IEC 62116, INMETRO PORTARIA N°140(only for 75kW)			

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

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

³3 AC Power is different under different rated AC voltage.

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