

SCA15~25K-T-SA

Three-Phase String Inverter

15~25kW • 4 MPPTs • 1100Vdc System



Efficient

Appealing yield

- 4 MPPTs with Max. Efficiency 97.73%
- Easily compatible with various PV modules based on max. input current 15A per string
- AFCI function standard
- 150% DC/AC ratio
- Lower startup & wider MPPT voltage

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

Safe

Solid quality

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

Model Name	SCA15K-T-SA ¹	SCA20K-T-SA ¹	SCA25K-T-SA ¹
DC Input			
Max. DC Power	22.5kW	30kW	37.5kW
Max. DC Voltage	1100Vdc		
MPPT Operating Voltage Range	200 - 1000Vdc		
MPPT Operating Voltage Range@full load	300 - 550Vdc	300 - 550Vdc	300 - 550Vdc
Start Voltage	250Vdc		
Rated DC Voltage	360Vdc		
Number of MPPT	4		
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	15kW	20kW	25kW
Max. AC Power	16.5kVA	22kVA	25kVA
Rated AC Voltage ¹	208 / 220 / 240V		
AC Voltage Range	176 - 297V		
Grid Connection Type	3 / N / PE		
Max. AC Current	43.3A	57.8A	65.6A
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	97.61%	97.65%	97.70%
Euro Efficiency	97.01%	97.17%	97.21%
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	-25°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)	684 * 488 * 269mm		
Weight	37.5kg		
DC Connection Type	MC4 (Max. 6 mm²)		
AC Connection Type	OT/DT Terminal (Max.35 mm²)		
Safety			
Certifications ²	IEC/EN 62109-1/2, IEC/EN 61000, IEC 61727/62116, IEC 63027, PORTARIA N° 140&515		

^{*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} The rated AC power may vary depending on the applicable rated AC voltage.