

# SCA15~25K-T-SA

## Three-Phase String Inverter

15~25kW • 4 MPPTs • 1100Vdc System



### Efficient

#### Appealing yield

- 4 MPPTs with Max. Efficiency 97.84%
- Easily compatible with various PV modules based on max. input current 15A per string
- AFCI function standard
- 170% 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 <sup>1</sup>	SCA20K-T-SA <sup>1</sup>	SCA25K-T-SA <sup>1</sup>
<b>DC Input</b>			
Max. DC Power	25.5kW	34kW	42.5kW
Max. DC Voltage	1100Vdc		
MPPT Operating Voltage Range	200 - 1000Vdc		
MPPT Operating Voltage Range@full load	300 - 850Vdc	300 - 850Vdc	320 - 850Vdc
Start Voltage	250Vdc		
Rated DC Voltage	615Vdc		
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		
<b>AC Output</b>			
Rated AC Power	15kW	20kW	25kW
Max. AC Power	16.5kVA	22kVA	25kVA
Rated AC Voltage	208 / 220 / 240V <sup>2</sup>		
AC Voltage Range	180 - 270V		
Grid Connection Type	3Φ / N / PE		
Max. AC Current	43.3A	57.8A	65.6A
Grid Frequency	50 / 60Hz		
Grid Frequency Range	45-55 / 55-65Hz		
Power Factor (cosφ)	>0.99(±0.8 adjustable)		
Current THD	< 3%		
AC Disconnection Type	/		
<b>System Data</b>			
Topology	Transformerless		
Max. Efficiency	97.80%	97.82%	97.84%
Euro Efficiency	97.50%		
Consumption at Night	<1W		
<b>Protection</b>			
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		
<b>Environment Data</b>			
Ingress Protection	IP66		
Cooling Method	Natural Convection		
Operating Temperature	-25°C to +60°C		
Ambient Humidity	0 - 100%		
Altitude	4000m		
<b>Display and Communication</b>			
Display	LED + APP(Bluetooth)		
Communication	RS485 / Wi-Fi (Standard) & 4G (Optional)		
<b>Mechanical Data</b>			
Dimensions (W*H*D)	684 * 488 * 269mm		
Weight	35kg		
DC Connection Type	MC4 (Max. 6 mm <sup>2</sup> )		
AC Connection Type	OT/DT Terminal (Max.35 mm <sup>2</sup> )		
<b>Safety</b>			
Certifications <sup>3</sup>	IEC/EN 62109-1/2, IEC/EN 61000-6-2/4, IEC/EN 62920, IEC 61727/62116, PORTARIA N° 140&515		

<sup>1</sup> "AC Voltage Range" and "Grid Frequency Range" may differ according to specific grid codes.

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

<sup>3</sup> AC Power is different under different rated AC voltage.

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