

# SCA10~25K-T-EU

## Three-Phase String Inverter

10~25kW • 2 MPPTs • 1100Vdc System



### Efficient

#### Appealing yield

- 2 MPPTs with Max. Efficiency 98.13%
- 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	SCA10K-T-EU	SCA15K-T-EU	SCA20K-T-EU	SCA25K-T-EU
<b>DC Output</b>				
Max. DC Power	17kW	25.5kW	34kW	42.5kW
Max. DC Voltage	1100Vdc			
MPPT Operating Voltage Range	200 - 1000Vdc			
MPPT Operating Voltage Range@full load	400 - 850Vdc	520 - 850Vdc	400 - 850Vdc	500 - 850Vdc
Start Voltage	250Vcc			
Rated DC Voltage	600Vcc			
Number of MPPT	2			
Number of DC Connection Sets per MPPT	1		2	
Max. input current per MPPT	15A		30A	
Max. DC short-circuit current per MPPT	23A		45A	
String Fuse	/			
DC Disconnection Type	Integrated Switch			
<b>AC Output</b>				
Rated AC Power	10kW	15kW	20kW	25kW
Max. AC Power	11kVA	16.5kVA	22kVA	27.5kVA
Rated AC Voltage	380 / 400V			
AC Voltage Range <sup>1</sup>	277 - 520V			
Grid Connection Type	3Φ / N / PE			
Max. AC Current	16.7A	25A	33.4A	41.7A
Grid Frequency	50 / 60Hz			
Grid Frequency Range <sup>1</sup>	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	97.67%	97.85%	97.53%	98.13%
Euro Efficiency	97.10%	97.50%	97.50%	97.50%
Consumption at Night	<5W			
<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	Cooling Fans			
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)	526 * 416 * 205mm			
Weight	22kg			
DC Connection Type	MC4 (Max. 6mm <sup>2</sup> )			
AC Connection Type	Plug and play connector			
<b>Safety</b>				
Certifications <sup>2</sup>	IEC 62109-1/2, IEC 61000-6-2/4, IEC 61727/62116, PORTARIA N° 140&515			

<sup>1</sup> AC Voltage Range<sup>1</sup> and Grid Frequency Range<sup>1</sup> 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.