

# SCA25~60K-T(M)-EU(SA)

## Three-Phase String Inverter

25~60kW • 4 MPPTs • 1100Vdc System



### Efficient

#### Appealing yield

- 4 MPPTs with Max. Efficiency 98.56%
- Easily compatible with various PV modules based on max. input current 40A per MPPT
- AFCI function standard
- 170% DC/AC ratio

### Smart

#### Pragmatic option

- Communication interfaces [RS485/Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Smart fan cooling
- 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	SCA25K-TM-SA <sup>1</sup>	SCA30K-T-SA <sup>1</sup>	SCA50K-T-EU	SCA60K-T-EU
<b>DC Input</b>				
Max. DC Power	42.5kW	51kW	85kW	102kW
Max. DC Voltage	1100Vdc			
MPPT Operating Voltage Range	200 - 800Vdc		200 - 1000Vdc	
Start Voltage	250Vdc			
Rated DC Voltage	400Vdc		620Vdc	
Number of MPPT	4		4	
Number of DC Connection Sets per MPPT	2		2	
Max. input current per MPPT	40A			
Max. DC short-circuit current per MPPT	50A			
String Fuse	/			
DC Disconnection Type	Integrated Switch			
<b>AC Output</b>				
Rated AC Power	25kW	30kW	50kW	60kW
Max. AC Power	27.5kVA	33kVA	55kVA	66kVA
Rated AC Voltage	220 V		380 / 400V	
AC Voltage Range	176 - 246V		304 - 426V	
Grid Connection Type	3 / N / PE			
Max. AC Current	72.1A	86.6A	83.6A	100.3A
Grid Frequency	50 / 60Hz			
Grid Frequency Range*	45-55 / 55-65Hz			
Power Factor (cosφ)	>0.99(±0.8 adjustable)			
Current THD	< 3%			
<b>System Data</b>				
Topology	Transformerless			
Max. Efficiency*	97.43%	97.43%	98.49%	98.56%
Euro Efficiency*	97.03%	97.13%	98.44%	98.43%
<b>Protection</b>				
DC reverse connection protection	Yes			
AC short circuit protection	Yes			
Leakage current protection	Yes			
24h Grid monitoring	Yes			
Ground fault monitoring	Yes			
Surge Protection	DC Type II / AC Type II			
AFCI	Yes			
PID Recovery	Yes			
<b>Environment Data</b>				
Ingress Protection	IP66			
Cooling Method	Cooling Fans			
Operating Temperature	-30°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 / Ethernet (Optional)			
<b>Mechanical Data</b>				
Dimensions (W*H*D)	713*609*306mm			
Weight	50.5kg			
DC Connection Type	MC4 (Max. 6 mm <sup>2</sup> )			
AC Connection Type	OT/DT Terminal (Max.70 mm <sup>2</sup> )			
<b>Safety</b>				
Certifications*	IEC/EN 62109-1/2, IEC/EN 61000-6-2/4, IEC/EN 62920, IEC 61727/62116, PORTARIA N° 140&515			

\*1 "Grid Frequency Range" may differ according to specific grid codes.

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

\*3 The efficiency is for reference only.