

SCA10~25K-T-EU

Three-Phase String Inverter

10~25kW • 2 MPPTs • 1100Vdc System



Efficient

Appealing yield

- 2 MPPTs with Max. Efficiency 98.14%
- 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	SCA10K-T-EU	SCA15K-T-EU	SCA20K-T-EU	SCA25K-T-EU
DC Input				
Max. DC Power	15kW	22.5kW	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	250Vdc			
Rated DC Voltage	600Vdc			
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			
AC Output				
Rated AC Power	10kW	15kW	20kW	25kW
Max. AC Power	11kVA	16.5kVA	22kVA	27.5kVA
Rated AC Voltage	380 / 400V			
AC Voltage Range ¹	277 - 520V			
Grid Connection Type	3 / N / PE			
Max. AC Current	16.7A	25.1A	33.4A	41.8A
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	97.63%	97.83%	97.54%	98.14%
Euro Efficiency	97.10%	97.50%	97.50%	97.50%
Protection				
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			
Environment Data				
Ingress Protection	IP66			
Cooling Method	Cooling Fans			
Operating Temperature	-25°C to +60°C			
Ambient Humidity	0 - 100%			
Altitude	2000m			
Display and Communication				
Display	LED + APP(Bluetooth)			
Communication	RS485 / Wi-Fi (Standard) & 4G (Optional)			
Mechanical Data				
Dimensions (W*H*D)	416 * 526 * 204.5mm			
Weight	17kg		21kg	
DC Connection Type	MC4 (Max. 6mm²)			
AC Connection Type	OT/DT Terminal (Max.35 mm²)			
Safety				
Certifications ²	IEC 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.