

SCA50/60K-T-EU

Three-Phase String Inverter

50/60kW • 4 MPPTs • 1100Vdc System



Efficient

Appealing yield

- ④ 4 MPPTs with Max. Efficiency 98.49%
- ④ Easily compatible with various PV modules based on max. input current 40A per MPPT
- ④ AFCI function standard
- ④ 150% DC/AC ratio

Smart

Pragmatic option

- ④ Communication interfaces [RS485/Wi-Fi (Standard) & 4G (Optional)]
- ④ Built-in Bluetooth and App for local and remote monitoring
- ④ Smart fan cooling
- ④ Support zero export by meter+CT

Safe

Solid quality

- ④ Durable and robust component
- ④ IP66 & C5 protection
- ④ Type II SPD for both DC and AC

Model Name	SCA50K-T-EU	SCA60K-T-EU
DC Input		
Max. DC Voltage	1100Vdc	
MPPT Operating Voltage Range	200 - 1000Vdc	
Start Voltage	250Vdc	
Rated DC Voltage	620Vdc	
Number of MPPT	4	
Number of DC Connection Sets per MPPT	2	
Max. input current per MPPT	40A	
Max. DC short-circuit current per MPPT	50A	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	50kW	60kW
Max. AC Power	55kVA	66kVA
Rated AC Voltage	380 / 400V	
Grid Connection Type	3 / N / PE	
Max. AC Current	83.6A	100.3A
Grid Frequency	50 / 60Hz	
Grid Frequency Range ¹	45-55 / 55-65Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
System Data		
Topology	Transformerless	
Max. Efficiency ²	98.49%	98.48%
Euro Efficiency ²	98.44%	98.21%
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	
PID Recovery	Yes	
Environment Data		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485 / Wi-Fi (Standard) & 4G / Ethernet (Optional)	
Mechanical Data		
Dimensions (W*H*D)	713 * 609 * 306mm	
Weight	50.5kg	
DC Connection Type	MC4 (Max. 6 mm ²)	
AC Connection Type	OT/DT Terminal (Max.70 mm ²)	
Safety		
Certifications ³	IEC/EN 61000, IEC/EN 62109, IEC 61727, IEC 62116, IEC 63027, IEC 61683, IEC/EN 62920, VDE4105/4110, CEI 0-16/21, EN50549, NC RfG, PTPIREE, NTS V2.1, RD 647, RD 413, RD 1699, UNE 217001/217002,	

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

² The efficiency is for reference only.

³ The certificates are for reference only. Please consult the local sales staff for detailed certification.

⁴ For reference only. Chint Power reserve the right to alterations for the data above.