

CPS SCA50/60KTL-T/EU

Three-Phase String Inverter

50/60kW • 4 MPPTs • 1100Vdc System

Inverter



Efficient

Appealing yield

- 4 MPPTs with Max. Efficiency 98.3%
- Easily compatible with various PV modules based on max. input current 39A per MPPT
- ≥150% 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
- IP65 & C5 protection
- Type II SPD for both DC and AC

Model Name	CPS SCA50KTL-T/EU	CPS SCA60KTL-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	4
Number of DC Connection Sets per MPPT	3/3/2/2	3
Max. input current per MPPT	39A/39A/26A/26A	39A
Max. DC short-circuit current per MPPT	45A/45A/30A/30A	45A
String Fuse	20A	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	50kW	60kW
Max. AC Power	55kVA	66kVA
Rated AC Voltage	380/400/415V	
AC Voltage Range ¹	310-490V	
Grid Connection Type	3Φ / N / PE	
Max. AC Current	76A	92A
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	98.3%	
Euro Efficiency	98.0%	
Consumption at Night	< 1W	
Protection		
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	/	
Environment Data		
Ingress Protection	IP65	
Cooling Method	Cooling Fans	
Operating Temperature	-25°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485/Wi-Fi (Standard) & 4G (Optional)	
Mechanical Data		
Dimensions (W*H*D)	855 * 555 * 275mm	
Weight	77kg	
DC Connection Type	MC4 (Max. 6mm ²)	
AC Connection Type	OT/DT Terminal (Max. 50mm ²)	
Safety		
Certifications ²	EN 61000-6,EN/IEC 62109,IEC 61727,IEC 62116,IEC 60068,IEC 61683,EN 50549-1/2,CEI 0-21, CEI 0-16,G99 Type A/B,UTE C15-712-1,TOR Erzeuger Typ A,UNE 217002&RD1699,UNE 217001	

¹ AC Power is different under different rated AC voltage.

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