

CPS SCA5~25KTL-T1/EU

Three-Phase String Inverter
5~25kW / 2 MPPTs / 1100Vdc System



Efficient

Appealing yield

- 2 MPPTs with Max. Efficiency 98.2%
- Easily compatible with various PV modules based on max. input current 15A per string
- 150% DC/AC ratio.
- Lower startup & wider MPPT voltage



Smart

Pragmatic option

- Communication interfaces [RS485/Wi-Fi (Standard) & Ethernet/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.

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Model Name	CPS SCA5K- TL-T1/ EU	CPS SCA6K- TL-T1/ EU	CPS SCA8K- TL-T1/ EU	CPS SCA10K- TL-T1/ EU	CPS SCA15K- TL-T1/ EU	CPS SCA20K- TL-T1/ EU	CPS SCA25K- TL-T1/ EU
DC Input							
Max. DC Voltage	1100Vdc						
MPPT Operating Voltage Range	160 - 1000Vdc						
Start Voltage	180Vdc						
Rated DC Voltage	620Vdc						
Number of MPPT	2				2	2	
Number of DC Connection Sets per MPPT	1				2/1	2	
Max. Input Current per MPPT	15A				30A/15A	30A	
Max. DC Short-Circuit Current per MPPT	20A				40A/20A	40A	
String Fuse	/						
DC Disconnection Type	Integrated Switch						
AC Output							
Rated AC Power	5KW	6KW	8KW	10kW	15kW	20kW	25kW
Max. AC Power	5.5KVA	6.6KVA	8.8KVA	11.2KVA	16.7kVA	22kVA	27.5kVA
Rated AC Voltage	380/400/415V						
AC Voltage Range ¹	260 - 510V						
Grid Connection Type	3Φ / N / PE						
Max. AC Current	8.4A	10.1A	13.4A	17.0A	25.3A	33.7A	39.8A
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	98.0%	98.0%	98.0%	98.0%	98.2%	98.2%	98.2%
Euro Efficiency	97.4%	97.4%	97.4%	97.4%	97.6%	97.7%	97.7%

*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.

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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	Option			
Environment Data				
Ingress Protection	IP66			
Cooling Method	Natural Convection		Cooling Fans	
Operating Temperature	-25°C ila +60°C			
Ambient Humidity	0% - 100%			
Altitude	4000 m			
Display and Communication				
Display	LED + APP (Bluetooth)			
Communication	RS485 / Wi-Fi (Standard) & Ethernet/4G (Optional)			
Mechanical Data				
Dimensions (W*H*D)	398 * 460 * 190 mm			
Weight	16.8 kg	18.7 kg	20.1 kg	20.3 kg
DC Connection Type	MC4 (Max. 6 mm²)			
AC Connection Type	OT/DT Terminal			
Safety				
Certifications²	EN/IEC 62109, IEC 61727, IEC61000-6, EN 50549-1, RD 1699, UNE 217001, VDE 4105, CEI 0-21, AS4777.2,TOR Erzeuger Tip A			

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