

CPS SCA7~10KTL-PSM/EU

Single-Phase String Inverter

7~10kW • 2 MPPTs • 550Vdc System



Efficient

Appealing yield

- 2 MPPTs with Max. Efficiency 97.7%
- Easily compatible with various PV modules based on max. input current 20A per string
- Up to 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
- IP65 & C5 protection
- Type II SPD for both DC and AC

Model Name	CPS SCA7KTL-PSM/EU	CPS SCA8KTL-PSM/EU	CPS SCA10KTL-PSM/EU
DC Input			
Max. DC Power	10.5kW	12kW	15kW
Max. DC Voltage	550Vdc		
MPPT Operating Voltage Range	60 - 540Vdc		
Start Voltage	90Vdc		
Rated DC Voltage	360Vdc		
Number of MPPT	2		
Number of DC Connection Sets per MPPT	1	2 / 1	
Max. input current per MPPT	20A	30A / 20A	
Max. DC short-circuit current per MPPT	26A	40A / 26A	
String Fuse	/		
DC Disconnection Type	Integrated Switch		
AC Output			
Rated AC Power	7kW	8kW	10kW
Max. AC Power	7.7kVA	8.8kVA	10kVA
Rated AC Voltage	220 / 230V		
AC Voltage Range ¹	160- 300V		
Grid Connection Type	L / N / PE		
Max. AC Current	35A	40A	45.5A
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	97.7%	97.7%	97.7%
Euro Efficiency	97.3%	97.3%	97.3%
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	Natural Convection		
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)	400 * 450 * 170mm		
Weight	16kg		
DC Connection Type	MC4 (Max. 6mm ²)		
AC Connection Type	OT/DT Terminal (Max. 14mm ²)		
Safety			
Certifications ²	IEC 61000-6, IEC 62109-1/2, IEC 61727, IEC 62116, INMETRO PORTARIA N°140		

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.

³ AC Power is different under different rated AC voltage.

⁴ Transformer compatibility: this model only supports connection with IT systems, not compatible with TN/TT systems.