

CPS SCA5/6KTL-PSM1/EU

Single-Phase String Inverter

5/6kW • 2 MPPTs • 550Vdc System



Efficient

Appealing yield

- 2 MPPTs with Max. Efficiency 97.2%
- Easily compatible with various PV modules based on max. input current 15A per MPPT
- 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 SCA5KTL-PSM1/EU	CPS SCA6KTL-PSM1/EU
DC Input		
Max. DC Power	7.5kW	9kW
Max. DC Voltage	550Vdc	
MPPT Operating Voltage Range	70 - 540Vdc	
Start Voltage	90Vdc	
Rated DC Voltage	360Vdc	
Number of MPPT	2	
Number of DC Connection Sets per MPPT	1	
Max. input current per MPPT	15A	
Max. DC short-circuit current per MPPT	20A	
String Fuse	/	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	5kW	6kW
Max. AC Power	5.5kVA	6kVA
Rated AC Voltage	220 / 230V	
AC Voltage Range ¹	160 - 300V	
Grid Connection Type	L / N / PE	
Max. AC Current	25A	27.3A
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	97.2%	97.2%
Euro Efficiency	96.2%	96.3%
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)	350 * 347 * 137mm	
Weight	8.5kg	
DC Connection Type	MC4 (Max. 6mm ²)	
AC Connection Type	Plug and play connector	
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 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.