

CPS SCA4.6~6KTL-PSM1/EU

Single-Phase String Inverter

4.6~6kW / 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
- 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

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Model Name	CPS SCA4.6KTL-PSM1/EU	CPS SCA5KTL-PSM1/EU	CPS SCA6KTL-PSM1/EU
DC Input			
Max. DC Voltage	500Vdc		
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	4,6kW	5kW	6kW
Max. AC Power	5,06kVA	5,5kVA	6kVA
Rated AC Voltage	220/230V		
AC Voltage Range ¹	160 - 300V		
Grid Connection Type	L/N/PE		
Max. AC Current	23A	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%	97,2%
Euro Efficiency	96,0%	96,2%	96,3%
Consumption at Night	< 1W		

^{*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	IP65
Cooling Method	Natural Convection
Operating Temperature	-25°C to +60°C
Ambient Humidity	0 - 100%
Altitude	4000 m
Display and Communication	
Display	LED + APP (Bluetooth)
Communication	RS485/Wi-Fi (Standard) & 4G (Optional)
Mechanical Data	
Dimensions (W*H*D)	350 * 347 * 137 mm
Weight	8,5 kg
DC Connection Type	MC4 (Max. 6 mm ²)
AC Connection Type	Plug and Play Connector
Safety	
Certifications ²	EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, VDE 4105, CEI 0-21, EN50549-1, VDE0126-1-1, NTS tip A, UNE 217002, RD 647, UNE 217001, INMETRO PORTARIA N° 140,AS4777.2

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