

CPS SCA2~3.6KTL-PS1/EU

Single-Phase String Inverter
2-3.6kW / 1 MPPT / 500Vdc System



Efficient

Appealing yield

- 1 MPPT with Max. Efficiency 97.3%.
- Easily compatible with various PV module 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 SCA2KTL-PS1/EU	CPS SCA3KTL-PS1/EU	CPS SCA3.6KTL-PS1/EU
DC Input			
Max. DC Voltage	500Vdc		
MPPT Operating Voltage Range	50-490Vdc		
Start Voltage	70Vdc		
Rated DC Voltage	360Vdc		
Number of MPPT	1		
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	2kW	3kW	3,6kW
Max. AC Power	2,2kVA	3,3kVA	3,6kVA
Rated AC Voltage	220/230V		
AC Voltage Range ¹	160 - 300V		
Grid Connection Type	L/N/PE		
Max. AC Current	10A	15A	16A
Grid Frequency	50/60Hz		
Grid Frequency Range ¹	45-55/55-65Hz		
Power Factor (Cos ϕ)	> 0.99 (\pm 0.8 Adjustable)		
Current THD	< 3%		
AC Disconnection Type	/		
System Data			
Topology	97.3%		
Max. Efficiency	97,3%	97,3%	97,3%
Euro Efficiency	95,9%	96,3%	96,5%
Consumption at Night	< 1W		

¹ AC Power is different under different rated AC voltage.

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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)	320 * 344 * 137 mm
Weight	6,5 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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² The certificates are for reference only. Please consult the local sales staff for detailed certification.