

CPS SCA30KTL-T1/EU

Three-Phase String Inverter

30kW • 2 MPPTs • 1000Vdc System

Inverter



Efficient

Appealing yield

- 2 MPPTs with Max. Efficiency 98.3%
- Easily compatible with various PV modules based on max. input current 40.5A 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

Model Name	CPS SCA30KTL-T1/EU
DC Input	
Max. DC Voltage	1000Vdc
MPPT Operating Voltage Range	250-960Vdc
Start Voltage	250Vdc
Rated DC Voltage	620Vdc
Number of MPPT	2
Number of DC Connection Sets per MPPT	3
Max. input current per MPPT	40.5A
Max. DC short-circuit current per MPPT	45A
String Fuse	20A
DC Disconnection Type	Integrated Switch
AC Output	
Rated AC Power	30kW
Max. AC Power	33kVA
Rated AC Voltage	380/400/415V
AC Voltage Range ¹	310 - 480V
Grid Connection Type	3Φ / N / PE
Max. AC Current	48A
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	98.3%
Euro Efficiency	98.0%
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	Cooling Fans
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)	555 * 470 * 270mm
Weight	41kg
DC Connection Type	MC4 (Max. 6 mm ²)
AC Connection Type	OT/DT Terminal(Max. 35 mm ²)
Safety	
Certifications ²	EN/IEC 62109, IEC 61727, IEC61000-6, EN 50549-1, RD 1699, UNE 217001, VDE 4105, CEI 0-21, AS4777.2, TOR Erzeuger Typ A

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.