

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.

CPS SCA4.6~6KTL-PSM1/EU



| 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 (Cos ϕ) | > 0.99 (\pm 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.

CPS SCA4.6~6KTL-PSM1/EU



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 Nº 140, AS4777.2 |
|-----------------------------|--|

² The certificates are for reference only. Please consult the local sales staff for detailed certification.