

CPS SCA50/60KTL-T/EU

Three-Phase String Inverter

50/60kW • 4 MPPTs • 1100Vdc System



Efficient

Appealing yield

- 4 MPPTs with Max. Efficiency 98.3%
- Easily compatible with various PV modules based on max. input current 39A per MPPT
- Up to 150% DC/AC ratio

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+CT

Safe

Solid quality

- Durable and robust component
- IP65 & C5 protection
- Type II SPD for both DC and AC

| Model Name | CPS SCA50KTL-T/EU | CPS SCA60KTL-T/EU |
|--|--|-------------------|
| DC Input | | |
| Max. DC Power | 75kW | 90kW |
| Max. DC Voltage | 1100Vdc | |
| MPPT Operating Voltage Range | 200 - 1000Vdc | |
| Start Voltage | 250Vdc | |
| Rated DC Voltage | 620Vdc | |
| Number of MPPT | 4 | |
| Number of DC Connection Sets per MPPT | 3 / 3 / 2 / 2 | 3 |
| Max. input current per MPPT | 39A / 39A / 26A / 26A | 39A |
| Max. DC short-circuit current per MPPT | 45A / 45A / 30A / 30A | 45A |
| String Fuse | 20A | |
| DC Disconnection Type | Integrated Switch | |
| AC Output | | |
| Rated AC Power | 50kW | 60kW |
| Max. AC Power | 55kVA | 66kVA |
| Rated AC Voltage | 380 / 400V | |
| AC Voltage Range ¹ | 277 - 520V | |
| Grid Connection Type | 3Φ / N / PE | |
| Max. AC Current | 83A | 92A |
| 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) | 855 * 565 * 275mm | |
| Weight | 77kg | |
| DC Connection Type | MC4 (Max. 6mm ²) | |
| AC Connection Type | OT/DT Terminal (Max. 50mm ²) | |
| Safety | | |
| Certifications ² | IEC 61000-6, IEC 62109-1/2, IEC 61727, IEC 62116, IEC 60068, IEC 61683 | |

¹ "AC Voltage Range" and "Grid Frequency Range" may be 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.