

CPS SCH275KTL-DO/EU

Three-Phase String Inverter

275kW • 6/12 MPPTs • 1500Vdc System



Efficient

Higher power generation

- 6/12 MPPTs with Max. Efficiency 99%
- Max. input current 20A per string, compatible with 600Wp+ module
- Superb temperature performance, full power at 42°C

Smart

Fully controllable

- Comprehensive range of communication interfaces [RS485/Ethernet/PLC/CAN]

Safe

Superb quality with rapid response

- Durable and robust component
- Artfully designed air forced cooling system
- IP66&C5 protection
- Type II SPD for both DC and AC
- Full range of grid monitoring and protection
- Built-in anti-PID and PID recovery function

Model Name	CPS SCH275KTL-DO/EU	
DC Input		
Max. DC Power	412.5kW	
Max. DC Voltage	1500Vdc	
MPPT Operating Voltage Range	500 - 1450Vdc	
MPPT Operating Voltage Range@full load	900 - 1300Vdc	
Start Voltage	550Vdc	
Rated DC Voltage	1190Vdc	
Number of MPPT	12	6
Number of DC Connection Sets per MPPT	2	3
Max. input current per MPPT	30A	60A
Max. DC short-circuit current per MPPT	40A	90A
String Fuse	/	25A
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	275kW	
Max. AC Power	275kVA	
Rated AC Voltage	800V	
AC Voltage Range ¹	680 - 880V	
Grid Connection Type	3Φ / PE(IT system ⁴)	
Max. AC Current	198.5A	
Grid Frequency	50 / 60Hz	
Grid Frequency Range ¹	47-53 / 57-63Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
AC Disconnection Type	/	
System Data		
Topology	Transformerless	
Max. Efficiency	99.0%	
Euro Efficiency	98.5%	
Consumption at Night	< 6W	
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	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485/Ethernet/PLC/CAN	
Mechanical Data		
Dimensions (W*H*D)	1100 * 680 * 337mm	
Weight	105kg	
DC Connection Type	MC4 (Max. 6mm ²)	
AC Connection Type	OT/DT Terminal (Max. 300mm ²)	
Safety		
Certifications ²	IEC 61000-6, IEC 62109-1/2, IEC 61727, IEC 62116, IEC 60068, IEC 61683, ABNT NBR 16149/16150	

¹*AC Voltage Range" and "Grid Frequency Range" may be differ according to specific grid codes.

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

³AC Power is different under different rated AC voltage.

⁴Transformer compatibility: this model only supports connection with IT systems, not compatible with TN/TT systems.