

CPS SCE5~10K-TH-EU

Three Phase Residential Hybrid PCS



Strong Ability

- 100% unbalance ability
- 50% max power for one phase supported

High Protection

- With BMS system to ensure high battery life
- Natural cooling design

High Flexibility

- Compatible with lead-acid and lithium battery
- Compatible with 500W+ modules

Model	SCE9K-TH-EU	SCE8K-TH-EU	SCE8K-TH-EU	SCE10K-TH-EU
Efficiency				
Max. Efficiency (PV to Grid)	97.1%			97.4%
Eur. Efficiency (PV to Grid)	95.6%			96.2%
Max. Efficiency (Battery to Load)	96.5%		96.6%	96.8%
PV				
Rated Input Voltage			650V	
Max. Input Voltage			1000V	
Max. Input Power			9.0kW	
Max. Input Current per MPPT			15A/15A	
Max. Short Circuit Current per MPPT			20A/20A	
20A/30A				
30A/40A				
No. of MPPTs			2	
No. of Strings per MPPT			1/1	
1/2				
Start Input Voltage			150V	
PV Operating Voltage Range			160-950V	
Battery				
Battery Type			Lithium-ion/Lead-Acid	
Battery Voltage Range			150-600V	
Max. Charge/Discharge Current			25A/25A	
50A/50A				
Max. Charge/Discharge Power			9.0kW/6.0kW	
15kW/10kW				
Grid				
Max. Input Current			25.0A	
25.0A				
Rated Output Apparent Power			6.0kVA	
8.0kVA				
Max. Output Apparent Power			6.6kVA	
8.8kVA				
Rated Output Voltage			380V/400V/415V, 3W+N+PE	
Rated Grid Frequency			50Hz/60Hz	
THDI			<3%(Rated Power)	
Power Factor			> 0.99 Rated power (Adjustable 0.8 Leading - 0.8lagging)	
Backup Port				
Max. Output Current (On Grid)			25.0A	
25.0A				
Rated Output Apparent Power (On Grid)			15.8kVA	
15.8kVA				
Max. Output Apparent Power (Off Grid)			5.0kVA	
6.0kVA				
Peak Output Apparent Power			6kVA@5min/7.5kVA@10s	
7.2kVA@5min/9kVA@10s				
9.6kVA@5min/12kVA@10s				
12kVA@5min/15kVA@10s				
Rated Output Voltage			380V/400V/415V, 3W+N+PE	
Rated Output Frequency			50Hz/60Hz	
Max. Output Single Phase Apparent Power			2.5kVA	
3.0kVA				
THDV			<3%(Rated Power)	
4.0kVA				
5.0kVA				
Switching Time			10ms	
Protection				
DC Switch			Support	
Anti-islanding Protection			Support	
AC Overcurrent Protection			Support	
AC Short Circuit Protection			Support	
PV String Reverse Protection			Support	
Surge Arrester			AC Type III, DC Type II	
AFCI			Option	
General				
Topology			Transformerless	
IP Rating			IP65	
Cooling			Natural cooling	
Operating Temperature Range			-25°C~60°C(>45°C derating)	
Relative Humidity Range			0~100%	
Max. Operating Altitude			4000m(>2000m derating)	
Noise (Typical)			<30dB	
Dimensions (W*H*D)			530*550*212mm	
Weight (kg)			30kg	
32kg				
Display			LED&APP	
Communication			RS485 CAN, WIFI/4G(optional)	
Certification				
Safety			IEC 62109-1/2, IEC/EN 61000-6-1/2/3/4	
Grid Code			EN 50549-1, VDE41105, NC RIG, NTS 2.1, UNE 217001, UNE 217002	

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