

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 batteries and lithium battery
- Compatible with 500W+ modules

Model	SCE5K-TH-EU	SCE6K-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%	96.8%
PV				
Rated Input Voltage	650V			
Max. Input Voltage	1000V			
Max. Input Power	9.0kW	9.0kW	15.0kW	15.0kW
Max. Input Current per MPPT	15A/15A		20A/30A	
Max. Short Circuit Current per MPPT	20A/20A		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/5.0kW	9.0kW/6.0kW	15kW/8.0kW	15kW/10kW
Grid				
Max. Input Current	25.0A	25.0A	25.0A	25.0A
Rated Output Apparent Power	5.0kVA	6.0kVA	8.0kVA	10.0kVA
Max. Output Apparent Power	5.5kVA	6.6kVA	8.8kVA	11.0kVA
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	25.0A	25.0A
Rated Output Apparent Power (On Grid)	15.8kVA	15.8kVA	15.8kVA	15.8kVA
Max. Output Apparent Power (Off Grid)	5.0kVA	6.0kVA	8.0kVA	10.0kVA
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	4.0kVA	5.0kVA
THDV	<3%(Rated Power)			
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, VDE4105, NC RfG, NTS 2.1, UNE 217001, UNE 217002			

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