

CPS SCE4.6~6KTL-120/EU

Single Phase Residential Hybrid PCS



High Return

- Max efficiency 96.6%, Battery efficiency 93%
- Convenient to retrofit existing grid-connected systems increase the proportion of spontaneous use

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	CPS SCE4.6KTL-120EU		CPS SCE5KTL-120EU		CPS SCE6KTL-120EU	
Efficiency						
Max. Efficiency (PV to Grid)			96.6%			
Euro Efficiency (PV to Grid)			95.1%			
Max. Efficiency (Battery to Load)			93.0%			
PV						
Rated Input Voltage			360V			
Max. Input Voltage			550V			
Max. Input Power	9.0kW		9.0kW		9.0kW	
Max. Input Current per MPPT			15A/15A			
Max.Short Circuit Current per MPPT			20A/20A			
No. of MPPTs			2			
No. of Strings per MPPT			1			
Start Input Voltage			90V			
PV Operating Voltage Range			70-520V			
Battery						
Battery Type			Lithium-ion/Lead-Acid			
Battery Voltage Range			40-60V			
Max. Charge/Discharge Current	120A/120A		120A/120A		120A/120A	
Max. Charge/Discharge Power	6.0kW/4.6kW		6.0kW/5.0kW		6.0kW/6.0kW	
Grid						
Max. Input Current	41.0A		41.0A		41.0A	
Rated Output Apparent Power	4.6kVA		5.0kVA		6.0kVA	
Max. Output Apparent Power	4.6kVA		5.5kVA		6.0kVA	
Rated Output Voltage			220V/230V			
Rated Grid Frequency			50Hz/60Hz			
THDI			<3%(Rated Power)			
Power Factor			> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)			
Backup						
Max. Output Current (On Grid)	22.0A		23.9A		28.6A	
Rated Output Apparent Power (Off Grid)	4.6kVA		5.0kVA		6.0kVA	
Max. Output Apparent Power (Off Grid)	4.6kVA		5.0kVA		6.0kVA	
Peak Output Apparent Power	6.9kVA@1s		7.5kVA@1s		9kVA@1s	
Rated Output Voltage			220V/230V			
Rated Output Frequency			50Hz/60Hz			
Max. Output Single Phase Apparent Power			/			
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 III			
Insulation Detection			Support			
Leakage Current Protection			Support			
General						
Topology			High Frequency Isolation (Battery)			
IP Rating			IP65			
Cooling			Natural cooling			
Operating Temperature Range			-25°C-60°C			
Relative Humidity Range			0-100%			
Max. Operating Altitude			4000m			
Noise (Typical)			<35dB			
Dimensions (W*H*D)			515*485*175mm			
Weight			25kg			
Display			LED&APP			
Communication			RS485,CAN, WIFI/4G(optional)			
Certification						
Safety			IEC/EN 62109-1/2, IEC/EN 61000-6-1/2/3/4, IEC 62477, IEC 62040-1			
Grid Code			VDE4105,EN 50549-1,CEI 0-21,NTS Version 2.1,UNE 217001:2020,UNE 217002:202,G99, AS4777.2,SAA,NRS 097-2-1			

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