

CPS SCE4.6~6KTL-120/EU

Single Phase Residential Hybrid PCS



Hybrid System

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%	
Eur. 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.