

CPS SCE4.6~6KTL-120/EU

Single Phase Residential Hybrid PCS



High Return

- Max efficiency 96.6%, Battery efficiency 94%
- 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%		
Max. Efficiency (Battery to Load)	94.0%		
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/89.8A	120A/97.7A	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	6kVA@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		
AFCI	Option		
RSD Function	Option		
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*487*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.