

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

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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 - 0.8 Lagging)			
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			

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Model Name	CPS SCE4.6KTL-120EU	CPS SCE5KTL-120EU	CPS SCE6KTL-120EU
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	Option		
Leakage Current Protection	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 ve 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 Sürüm 2.1, UNE 217001:2020, UNE 217002:202, G99, AS4777.2, SAA, NRS 097-2-1		