CPS SCE4.6~6KTL-120/EU

Single Phase Residential Hybrid PCS



High Return

- Max efficiency 96.6%, Battery efficiency 94%
- Convenient to retrofit existing gridconnected 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				
		550V				
Max. Input Voltage	0.01144		0.01144			
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	O.OKTY, F.OKTY	O.OKTY/O.OKTY	0.0//44/0.0//44			
	41.0A	41.0A	41.0A			
Max. Input Current						
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 Ra	ated power (Adjustable 0.8 Leading - 0.8	BLagging)			
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		Sp. 10.				
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)					
		. , -\ 1				
Certification						
	IFC/FN 62109-	-1/2, IEC/EN 61000-6-1/2/3/4, IEC 6247	7. IEC 62040-1			

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

Wi-Fi Communication Module



WiFi Module is an internal data logger in the Chint Power Systems PV monitoring series.

By connecting with inverter through RS232/RS485 interface (DB9 port), the WiFi Module can collect information of PV systems from inverter. With the integrated WiFi function, the WiFi Module can connect to router and transmit data to the web server, realizing remote monitoring for users.

Users can check the runtime status of the device by checking the 3 LEDs on the module, Users can also upgrade the inverter firmware and setting parameters through web portal which connected by WiFi module.

- Supporting remote operation and maintenance functions including remote upgrading, parameter setting.
- Supporting direct connection configuration with APP, quickly and easily.
- Plug and play, quick installation.

Model Name	WIFI Module				
General					
Supported device number	1				
Display	LED*3				
Configuration	APP				
Communication					
RS485/RS232	1				
WiFi	2.4GHz 802.11 b / g / n				
Power					
Input Voltage	5Vdc				
Power Consumption	2W				
Environmental					
Operating Temperature	-20°C to +65°C				
Working Humidity	≤95%				
Protection class	IP65				
Mechanical Parameters					
Dimensions (W * H * D)	45mm * 80mm * 25mm				
Installation	Plug-in type				

CPS ESSR-05/10/15/20KL1

Low Voltage Residential Battery









Flexible

 Standard packs and control modules reduce inventory and design difficulties

Safe

- Adapt to different installation environments with IP65 protection
- VDE 2510-50, IEC 63056

Easy

- Reduce wiring work during pack install
- Automatically assign of BMS address

Technical parameters	C PROTECTION OF THE PROTECTION	Manage date	C	The state of the s		
Model	CPS ESSR-05KL1	CPS ESSR-10KL1	CPS ESSR-15KL1	CPS ESSR-20KL1		
System Parameters						
Power Control Module	CPS ECD51	CPS ECD51	CPS ECD51	CPS ECD51		
Battery Extension Module	CPS EBM016100LF-L	CPS EBM016100LF-L	CPS EBM016100LF-L	CPS EBM016100LF-L		
Rated Voltage(V)	51.2	51.2	51.2	51.2		
Operating Voltage Range(V)	44.8~57.6	44.8~57.6	44.8~57.6	44.8~57.6		
Max Charge/Discharge Current(A)	50	100	120	120		
Max Power(kW)	2.5	5.0	6.0	6.0		
Rated Charge/Discharge Energy(kWh)	5.12	10.24	15.36	20.48		
Useable Battery Energy(kWh)	5.12	10.24	15.36	20.48		
DOD	100%	100%	100%	100%		
Weight(kg)	60	104	148	192		
Dimension (W*D*H,mm)	670*178*650	670*178*1020	670*178*1390	670*178*1760		
Product Parallel Extension(kWh)	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh		
Operating Temperature(°C)	Charge: 0~50 Discharge: -10~50					
Working Humidity	5~95%	5~95%	5~95%	5~95%		
Protection	IP65	IP65	IP65	IP65		
EOL	70%	70%	70%	70%		
Communication	CAN	CAN	CAN	CAN		
Certificates	IEC 62619,IEC 63056,IEC62040-1,VDE 2510-50, CE EMC, UKCA, UN 38.3					
Installation	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount		
Cooling	Natural	Natural	Natural	Natural		
Altitude	≤3000	≤3000	≤3000	≤3000		
Battery Extension Module						
Module	CPS EBM016100LF-L					
Rated Charge/Discharge Energy(kWh)	5.12					
Dimension (W*D*H,mm)	670*178*370					
Weight(kg)	44					
EOL(%)	70					
Power Control Module						
Model		CPS ECD51				
Operating Voltage Range(V)	44.8~57.6					
Max Charge/Discharge Current(A)	120					
Dimension (W*D*H,mm)	670*178*280					
Weight(kg)	8					
	1					

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

World Class Performance - GTM Award



The CPS performance is increasing year by year. 2013, Chint Power System Selected to be Top 10 of the Most Competitive PV Inverter Companies by GTM, the international well-known power and renewable energy research institute. GTM released the ranking list based on key qualitative metrics that measure each company's product quality, reliability, bankability, growth prospect alignment and integrated competitiveness. The ranking list shows a key assessment factor of the potential competitiveness in the future.

2014, According to the Total Shipment, Chint Power rank 13 of global PV Inverter market announced by GTM. Since 2015 to now, CPS three phase string inverter started dominate commercial segment of US market.

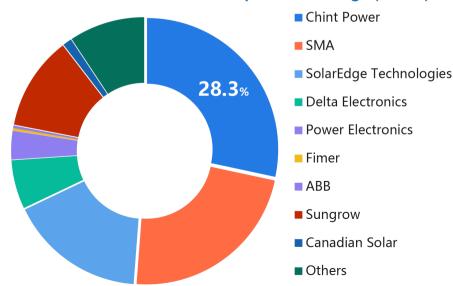
This year, Wood Mackenzie (GTM Research) released "Global solar PV and module-level power electronics inverter market share 2022". According to the report, CPS ranked 1st again in three phase string inverter shipments in the U.S.A with 28.3% of the market share 2022.

GTM/ Wood Mackenzie:

In 2022, CPS ranked 1st in three phase string inverter shipments in the U.S.A with 28.3% of the market share.



North America 2022 Inverter Shipment Rankings (MWac)



North America Three Phase Inverter #1 Market Share 7 Consecutive Years

Data sourve: Wood Mackenzie (GTM)

Products Overview



Hybrid PCS

Residential hybrid PCS



Battery

Low/High voltage residential battery



PV Inverters

Single-phase string inverters



Three-phase string inverters

