CPS SCE5~10K-TH-EU

Three Phase Residential Hybrid PCS



Strong Ability

- 100% unbalance ability
- 50% max power for one phase supported

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	SCE5K-TH-EU	SCE6K-TH-EU	SCE8K-TH-EU	SCE10K-TH-EU		
Efficiency						
Max. Efficiency (PV to Grid)	98.	2%	98.4	4%		
Max. Efficiency (Battery to Load)		98	.0%			
PV						
Rated Input Voltage		65	50V			
Max. Input Voltage		10	00V			
Max. Input Power	9.0kW	9.0kW	15.0kW	15.0kW		
Max. Input Current per MPPT						
Max.Short Circuit Current per MPPT	15A/15A 20A/30A 20A/20A 30A/40A					
No. of MPPTs	2					
No. of Strings per MPPT	1/1 1/2					
Start Input Voltage	150V					
PV Operating Voltage Range	160-950V					
Battery		100-	900 V			
Battery Type		Lithium ior	all and Acid			
	Lithium-ion/Lead-Acid					
Battery Voltage Range	150-600V 25A/25A 50A/50A					
Max. Charge/Discharge Current						
Max. Charge/Discharge Power	9.0kW/5.0kW	9.0kW/6.0kW	15kW/8.0kW	15kW/10kW		
Grid	05.04	05.04	05.04	05.04		
Max. Input Current	25.0A	25.0A	25.0A	25.0A		
Rated Output Apparent Power	5.0kVA	6.0kVA	8.0kVA	10.0kVA		
Max. Output Apparent Power	5.5kVA	6.6kVA	8.8kVA	11.0kVA		
Rated Output Voltage	380V/400V/415V, 3W+N+PE					
Rated Grid Frequency	50Hz/60Hz					
HDI	<3%(Rated Power)					
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)					
Backup Port	05.04	05.04	05.04	05.04		
Max. Output Current (On Grid)	25.0A	25.0A	25.0A	25.0A		
Rated Output Apparent Power (On Grid)	15.8kVA	15.8kVA	15.8kVA	15.8kVA		
Max. Output Apparent Power (Off Grid)	5.0kVA	6.0kVA	8.0kVA	10.0kVA		
Peak Output Apparent Power	6kVA@5min7.5kVA@10s	7.2kVA@5min9kVA@10s	9.6kVA@5min12kVA@10s	12kVA@5min15kVA@1		
Rated Output Voltage	380V/400V/415V, 3W+N+PE					
Rated Output Frequency	50Hz/60Hz					
Max. Output Single Phase Apparent Power	2.5kVA	3.0kVA	4.0kVA	5.0kVA		
THDV	<3%(Rated Power)					
Switching Time		10	ms			
Protection		_				
OC Switch	Support					
Anti-islanding Protection	Support					
C Overcurrent Protection	Support					
AC Short Circuit Protection	Support					
PV String Reverse Protection	Support					
Surge Arrester	AC Type II, DC Type II					
AFCI	Option					
RSD Function		Ор	tion			
General						
Topology	Transformerless					
P Rating	IP65					
Cooling	Natural cooling					
Operating Temperature Range	-25°C~60°C(>45°C derating)					
Relative Humidity Range	0-100%					
Лах. Operating Altitude	4000m(>2000m derating)					
loise (Typical)	<30dB					
Dimensions (W*H*D)	530*550*213mm					
Veight (kg)	30kg 32kg					
Display	LED&APP					
Communication		RS485,CAN, W	/IFI/4G(optional)			
ertification						
Safety		IEC 62109-1/2, IEC	/EN 61000-6-1/2/3/4			
			ITS 2.1, UNE 217001, UNE 21			

^{*} 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-05/10/15/20KH1

High Voltage Residential Battery









Flexible

- Standard packs and control modules reduce inventory and design difficulties
- Working below -10°C with self heating

Strong

- C-rate up to 0.8
- 4kW for each pack. Get 10kW power from only 15kWh

Easy

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

CPS ESSR-05KH1	Production of the CPS ESSR-10KH1	FIND AF	root do	
CPS ECD500	CPS ECD500	CPS ECD500	CPS ECD500	
	CPS EBM032050LF-H		CPS EBM032050LF-H	
			409.6	
89.6~115.2V			358.4~460.8V	
40			40	
	8.1	12.2	16.3	
5.12	10.24	15.36	20.48	
5.12	10.24	15.36	20.48	
100%	100%	100%	100%	
75	131	188	244	
770*178*680	≈770*178*1040	≈770*178*1400	≈770*178*1760	
Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh	
Charge&Discharge: -10~50				
5~95%	5~95%	5~95%	5~95%	
IP65	IP65	IP65	IP65	
70%	70%	70%	70%	
CAN	CAN	CAN	CAN	
IEC 62619, IEC 63056, IEC 62040-1, IEC 62477-1, CE EMC, VDE 2510-50, UKCA, UN38.3				
Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount	
Natural	Natural	Natural	Natural	
≤3000	≤3000	≤3000	≤3000	
CPS EBM032050LF-H				
5.12				
770*178*410				
56				
70				
CPS ECD500				
80~500V				
40				
770*178*220 13				
	CPS ESSR-05KH1 CPS ECD500 CPS EBM032050LF-H 102.4 89.6~115.2V 40 4.0 5.12 5.12 100% 75 770*178*680 Up to 61.44kWh 5~95% IP65 70% CAN IEC 62619, IEC Floor Mount & Wall Mount Natural	CPS ESSR-05KH1	CPS ESSR-05KH1 CPS ESSR-10KH1 CPS ESSR-15KH1 CPS ECD500 CPS ECD500 CPS ECD500 CPS EBM032050LF-H CPS EBM032050LF-H CPS EBM032050LF-H 102.4 204.8 307.2 89.6-115.2V 179.2~230.4V 268.8~345.6V 40 40 40 4.0 8.1 12.2 5.12 10.24 15.36 100% 100% 100% 75 131 188 770*178*1040 ≈770*178*1400 up 70*178*1400 Up to 61.44kWh Up to 61.44kWh Up to 61.44kWh Up to 61.44kWh Up to 61.44kWh Up to 61.44kWh Charge&Discharge: -10~50 5~95% IP65 IP65 IP65 70% 70% 70% CAN CAN CAN IEC 62619, IEC 63056, IEC 62040-1, IEC 62477-1, CE MC, VDE 2510-50, Floor Mount & Wall Mount Natural Natural ×3000 ×3000 ×3000 CPS EBM03205	

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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.

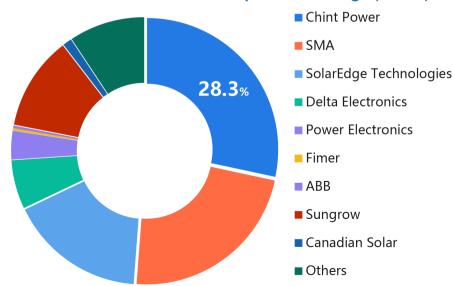
This year, Wood Mackenzie (GTM Research) released "Global solar PV and module-level power electronics inverter market share 2022". According to the report, CPS ranked 1st again in three phase string inverter shipments in the U.S.A with 28.3% of the market share 2022.

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

