LIGHTING THE WORLD WITH GREEN ENERGY

EN

PRODUCT BROCHURE

2025

CHINT POWER SYSTEMS

CHNT POWER

Contents

ABOUT CHINT

CHINT Today

USD 27.7 Billion
Annual Total Assets

USD 25 Billion
Annual Revenue

15%
Annual Revenue Growth Rate on a YOY Basis

USD 1.97 Billion
Annual Pre-tax Profits

50,000+
Employees Worldwide

500,000+
Creating Jobs in the Industrial Chains

140+
Covering Countries and Regions

2024.12.31
Updated on

Introduction to CHINT Group

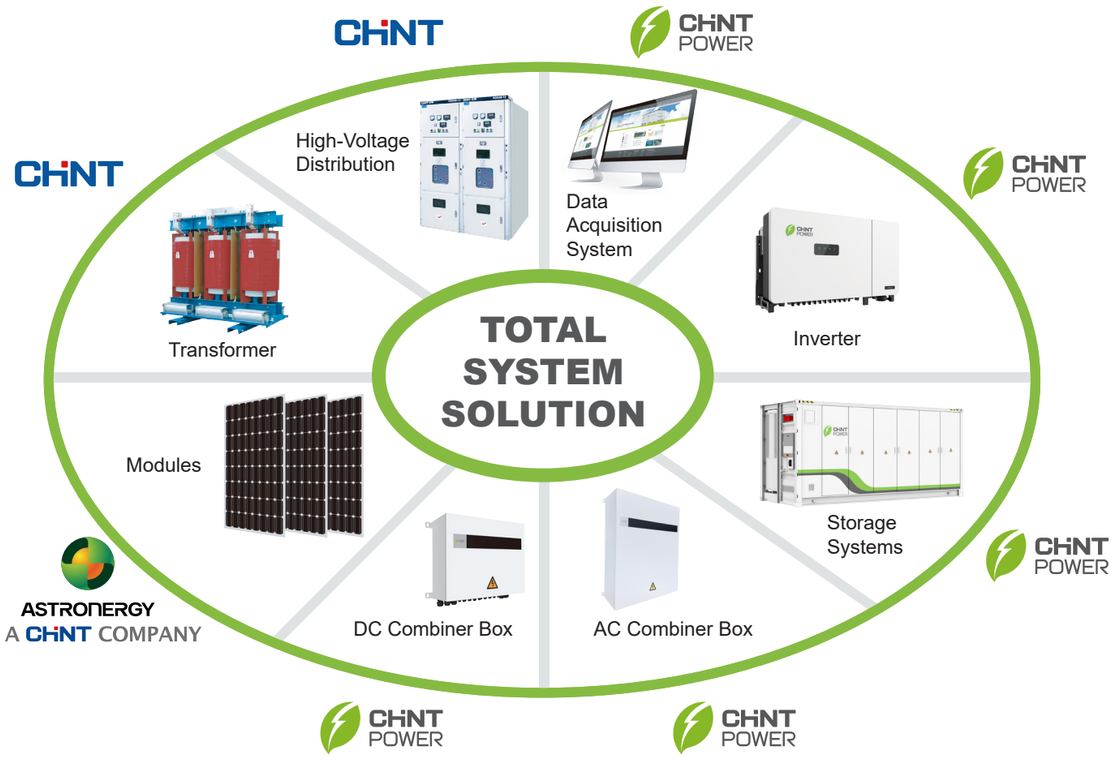
Founded in 1984, CHINT Group Co., Ltd. (hereinafter referred to as "CHINT") is a global leading smart energy solutions provider. Throughout its more than 40-year history, CHINT has consistently focused on diligent industrial pursuit and brand innovation. Embracing strategic imperatives such as industrialization, technological advancement, global expansion, digitization, and platform development, the company has strategically positioned itself across three key sectors: “Green Energy”, “Intelligent Electrical Solutions”, and “Smart Low-carbon Solutions”, along with two pivotal platforms, CHINT Global and Sci-Tech Innovation Incubation. It operates in over 140 countries and regions, with four global R&D centers, six international marketing regions, more than 30 domestic and international manufacturing bases, and a global workforce exceeding 50,000 employees. In 2024, CHINT's operating revenue reached USD 25 billion, and CHINT has been listed among the Top 500 Chinese Enterprises for more than 20 consecutive years. CHINT Electrics is the first publicly listed company with low-voltage electrical appliances in China.

CHINT continuously strengthens its "One Cloud & Two Networks" strategy, with "CHINT Cloud" as the carrier of intelligent technology and data applications and takes the lead in building the Energy Internet of Things (EIoT) and Industrial Internet of Things (IIoT) platforms, striving to be the explorer, advocator, and practitioner in the world of low-carbon development. With the "Green Energy, Smart Network, Load Reduction, and New Storage" service systems, CHINT sets up a platform-based enterprise, and builds a regional smart energy industry ecosystem. It provides a total energy solutions package for public institutions, industrial, commercial, and end users to achieve energy conservation, carbon reduction, and accelerate the energy transition.

ABOUT Chint Power Systems

Founded in July 2009, Chint Power mainly provides products and solutions for the renewable energy and power industries. Chint Power focuses on international and domestic renewable energy (photovoltaics and energy storage) field, with two research and development centers and five manufacturing bases around the world. The company's products have obtained UL, IEC, GB and other developed country grid certifications, and are sold to 30 countries and regions around the world, such as the United States, Japan, Germany, South Korea, and Brazil. The main clients include international and domestic well-known enterprises such as Tesla, Hyundai, National Power Investment Corporation, Three Gorges Group, China Resources Power, China Power Construction Corporation, Shanghai Electric, etc.

The company is a national high-tech enterprise. It has been recognized by the Ministry of Industry and Information Technology as the champion of invisible manufacturing in the field of photovoltaic equipment in Shanghai. The three-phase string photovoltaic inverter products have had a top market share in the North American market for eight consecutive years since 2015, and have the #1 market share in the Korean market since 2021. Ranking first globally in the 2023 Bloomberg photovoltaic inverter financing value report.



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.

Inverter & Energy Storage Manufacturer - BNEF Tier1

Products Overview

Residential Hybrid Inverter & Battery


3~6kW Single-phase


8~20kW Three-phase


5~20kWh Low voltage residential battery


5~20kWh High voltage residential battery

PV Inverters


2~3.6kW


4.6~6kW


5~25kW


30/36kW


50/60kW


100/125kW


333/350kW

Energy Storage System


2MW/2.4MW 2/4h


9.6MW/20MWh


5015KWH


4.8MW PCS


1.6MW/3.34MWh


125kW/261kWh


200kW PCS

ECH3~6K-SML-EU

Single Phase Residential Hybrid Inverter

High Return

- Max efficiency 97.4%, Battery efficiency 95.1%
- 5 basic modes to meet the needs of various scenarios
- Smart TOU mode, further increasing revenue

High Capability

- Up to 12kW output power in backup port with grid supply
- Save cost of separating loads, freedom of electricity in case of power failure
- Supports SG Ready heat pump and smart load control

High Protection

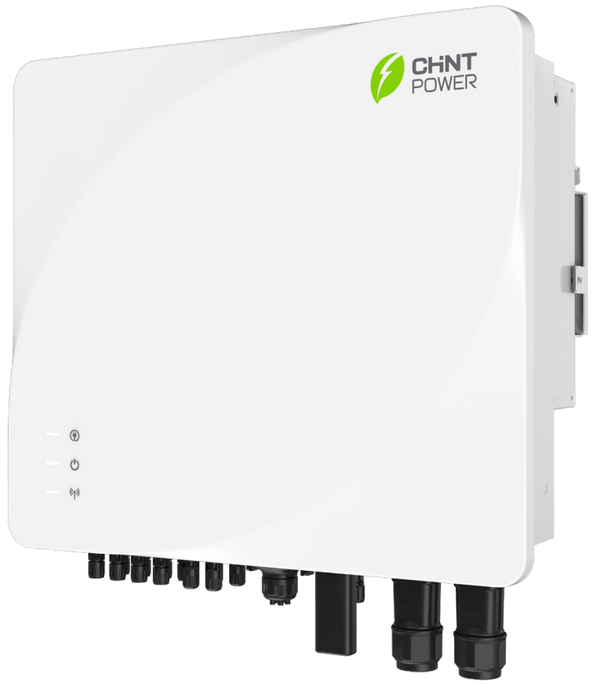
- Standard AFCI to protect your home
- Built-in Type II SPD on DC side
- IP66 protection for challenging environments

Model	ECH3K-SML-EU	ECH3.6K-SML-EU	ECH4.6K-SML-EU	ECH5K-SML-EU	ECH6K-SML-EU
Efficiency					
Max. Efficiency (PV to Grid)	97.40%	97.40%	97.40%	97.40%	97.40%
Eur.Efficiency (PV to Grid)	96.50%	96.50%	96.80%	96.80%	96.70%
Max. Efficiency (Battery to Load)	95.10%	95.10%	95.10%	95.10%	95.10%
PV					
Rated Input Voltage	360V	360V	360V	360V	360V
Max. Input Voltage	600V	600V	600V	600V	600V
Max. Input Power	9.00kW	9.68kW	10.60kW	10.80kW	10.80kW
Max. Input Current per MPPT	16/16A	16/16A	16/16A	16/16A	16/16A
Max.Short Circuit Current per MPPT	20/20A	20/20A	20/20A	20/20A	20/20A
No. of MPPTs	2	2	2	2	2
No. of Strings per MPPT	1	1	1	1	1
Start Input Voltage	100V	100V	100V	100V	100V
PV Operating Voltage Range	80-550V	80-550V	80-550V	80-550V	80-550V
Battery					
Battery Type	Lithium-ion/Lead-Acid				
Battery Voltage Range	40-60V	40-60V	40-60V	40-60V	40-60V
Max. Charge/Discharge Current	120/60A	120/75A	120/95A	120/120A	120/120A
Max. Charge/Discharge Power	6.0/3.0kW	6.0/3.6kW	6.0/4.6kW	6.0/5.0kW	6.0/6.0kW
Grid					
Max. Input Current	54.6A	54.6A	54.6A	54.6A	54.6A
Max. Input Apparent Power from Utility Grid	12.0kVA	12.0kVA	12.0kVA	12.0kVA	12.0kVA
Rated Output Apparent Power	3.00kVA	3.68kVA	4.60kVA	5.00kVA	6.00kVA
Max. Output Apparent Power	3.3kVA	4.0kVA	4.6kVA	5.5kVA	6.0kVA
Rated Output Voltage	L/N/PE~220/230V				
AC Voltage Range	176-276V(Adjustable)				
Rated Grid Frequency	50Hz/60Hz				
THDI	<3%(Rated Power)				
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)				
Backup Port					
Max. Output Current On Grid	54.6A	54.6A	54.6A	54.6A	54.6A
Max. Output Apparent Power On Grid	12.0kVA	12.0kVA	12.0kVA	12.0kVA	12.0kVA
Peak Output Apparent Power	4.5kVA @60s	5.4kVA @60s	6.9kVA @60s	7.5kVA @60s	9kVA @60s
Rated Output Apparent Power Off Grid	3.00kVA	3.68kVA	4.60kVA	5.00kVA	6.00kVA
Max. Output Apparent Power Off Grid	3.3kVA	4.0kVA	4.6kVA	5.5kVA	6.0kVA
Rated Output Voltage	220/230V	220/230V	220/230V	220/230V	220/230V
Rated Output Frequency	50Hz/60Hz				
THDV	<2%(Linear load)				
Switching Time	10ms				
Protection					
DC Switch	Support	Support	Support	Support	Support
Anti-islanding Protection	Support	Support	Support	Support	Support
AC Overcurrent Protection	Support	Support	Support	Support	Support
AC Overvoltage Protection	Support	Support	Support	Support	Support
PV String Reverse Protection	Support	Support	Support	Support	Support
Surge Protection	AC Type II, DC Type II				
Insulation Detection	Support	Support	Support	Support	Support
Leakage Current Protection	Support	Support	Support	Support	Support
AFCI	Support	Support	Support	Support	Support
RSD Function	Option	Option	Option	Option	Option
General					
Topology	High Frequency Isolation (Battery)				
IP Rating	IP66	IP66	IP66	IP66	IP66
Cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling	Natural cooling
Operating Temperature Range	-25°C-60°C	-25°C-60°C	-25°C-60°C	-25°C-60°C	-25°C-60°C
Relative Humidity Range	0-100%	0-100%	0-100%	0-100%	0-100%
Max. Operating Altitude	4000m				
Noise (Typical)	<35dB	<35dB	<35dB	<35dB	<35dB
Dimensions (W*H*D)	460*460*203mm	460*460*203mm	460*460*203mm	460*460*203mm	460*460*203mm
Weight	26kg	26kg	26kg	26kg	26kg
Display	LED&APP	LED&APP	LED&APP	LED&APP	LED&APP
Communication	RS485,CAN, WIFI/4G(optional)				
Certification					
Safety	IEC/EN62109-1&2, IEC/EN62477-1, IEC/EN61727 / 62116, IEC/EN61000-6-1/2/3				
Grid Code	VDE 4105, CEI 0-21, EN 50549-1, PTPiREE+NCRfG, NTS 2.1, 217001, 217002				

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

ECH8~20K-TH-EU

Three Phase Residential Hybrid Inverter



High Return

- Max efficiency 98.3%, Battery efficiency 97.5%
- 5 basic modes to meet the needs of various scenarios
- Smart TOU mode, further increasing revenue

High Capability

- Up to 40kW output power in backup port with grid supply
- Save cost of separating loads, freedom of electricity in case of power failure
- Supports SG Ready heat pump and smart load control
- Three-phase unbalance capacity, single-phase up to 50% of rated power

High Protection

- Standard AFCI to protect your home
- Built-in Type II SPD on DC side
- IP66 protection for challenging environments

Model	ECH8K-TH-EU	ECH10K-TH-EU	ECH12K-TH-EU	ECH15K-TH-EU	ECH18K-TH-EU	ECH20K-TH-EU
Efficiency						
Max. Efficiency (PV to Grid)	98.20%	98.30%	98.30%	98.30%	98.30%	98.30%
Eur.Efficiency (PV to Grid)	97.50%	97.60%	97.70%	97.70%	97.70%	97.70%
Max. Efficiency (Battery to Load)	97.50%	97.50%	97.80%	97.80%	97.80%	97.80%
PV						
Rated Input Voltage	600V	600V	600V	600V	600V	600V
Max. Input Voltage	1100V	1100V	1100V	1100V	1100V	1100V
Max. Input Power	12.80kW	16.00kW	19.20kW	24.00kW	28.80kW	30.00kW
Max. Input Current per MPPT	16A/16A/16A/16A	16A/16A/16A/16A	16A/16A/16A/16A	16A/16A/16A/16A	16A/16A/16A/16A	16A/16A/16A/16A
Max.Short Circuit Current per MPPT	24A/24A/24A/24A	24A/24A/24A/24A	24A/24A/24A/24A	24A/24A/24A/24A	24A/24A/24A/24A	24A/24A/24A/24A
No. of MPPTs	4	4	4	4	4	4
No. of Strings per MPPT	1	1	1	1	1	1
Start Input Voltage	160V	160V	160V	160V	160V	160V
PV Operating Voltage Range	160-1000V	160-1000V	160-1000V	160-1000V	160-1000V	160-1000V
Battery						
Battery Type	Lithium-ion/Lead-Acid					
Battery Voltage Range	160-600V	160-600V	160-600V	160-600V	160-600V	160-600V
Max. Charge/Discharge Curren	50A/50A	50A/50A	50A/50A	50A/50A	50A/50A	50A/50A
Max. Charge/Discharge Power	20kW/8kW	20kW/10kW	20kW/12kW	20kW/15kW	20kW/18kW	20kW/20kW
Grid						
Max. Input Current	60.8A	60.8A	60.8A	60.8A	60.8A	60.8A
Rated Output Apparent Power	8.0kVA	10.0kVA	12.0kVA	15.0kVA	18.0kVA	20.0kVA
Max. Output Apparent Power	8.8kVA	11.0kVA	13.2kVA	16.5kVA	19.8kVA	20.0kVA
Rated Output Voltage	3W / N / PE; 220 / 380 3W / N / PE; 230 / 400 3W / N / PE; 240 / 415 adjustable					
Rated Grid Frequency	50Hz/60Hz					
THDI	<3% (Rated Power)					
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)					
Backup Port						
Max. Output Current (On Grid)	60.8A	60.8A	60.8A	60.8A	60.8A	60.8A
Max. Output Apparent Power (On Grid)	40.0kVA	40.0kVA	40.0kVA	40.0kVA	40.0kVA	40.0kVA
Max. Output Apparent Power (Off Grid)	8.8kVA	11.0kVA	13.2 kVA	16.5kVA	19.8kVA	20.0kVA
Peak Output Apparent Power	22kVA @60s	22kVA @60s	22kVA @60s	22kVA @60s	22kVA @60s	22kVA @60s
Rated Output Voltage	380V/400V/415V, 3W+N+PE					
Rated Output Frequency	50Hz/60Hz					
Max. Output Single Phase Apparent Power	4.0kVA	5.0kVA	6.0kVA	7.5kVA	9.0kVA	9.0kVA
THDV	<2% @100% R Load					
Switching Time	10ms	10ms	10ms	10ms	10ms	10ms
Protection						
DC Switch	Support					
Anti-islanding Protection	Support					
AC Overcurrent Protection	Support					
AC Short Circuit Protection	Support					
PV String Reverse Protection	Support					
Surge protection	AC Type II, DC Type II					
AFCI	Support					
RSD Function	Option					
General						
Topology	Non-Isolated					
IP Rating	IP66					
Cooling	Forced airflow					
Operating Temperature Range	-25℃-60℃					
Relative Humidity Range	0-100%					
Max. Operating Altitude	4000m					
Noise (Typical)	<45dB					
Dimensions (W*H*D)	≈617/598/291.7mm					
Weight	≈41kg					
Display	LED&APP					
Communication	RS485,CAN, WIFI/4G(optional)					
Certification						
Safety	IEC62109-1&2 IEC61000					
Grid Code	EN50549,VDE4105,Tor erzeuger typeA+R25 Tor erzeuger type B,EIFS2018-2,CEI 021,NC RfG, PTPiREE, PSE S.A.,EN50549-1					

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

CPS ESSR-05/10/15/20KL1

Low Voltage Residential Battery

Flexible

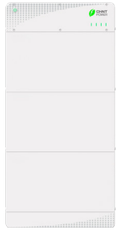
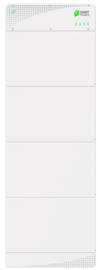
- Standard packs and control modules reduce inventory and design difficulties

Safe

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

Easy

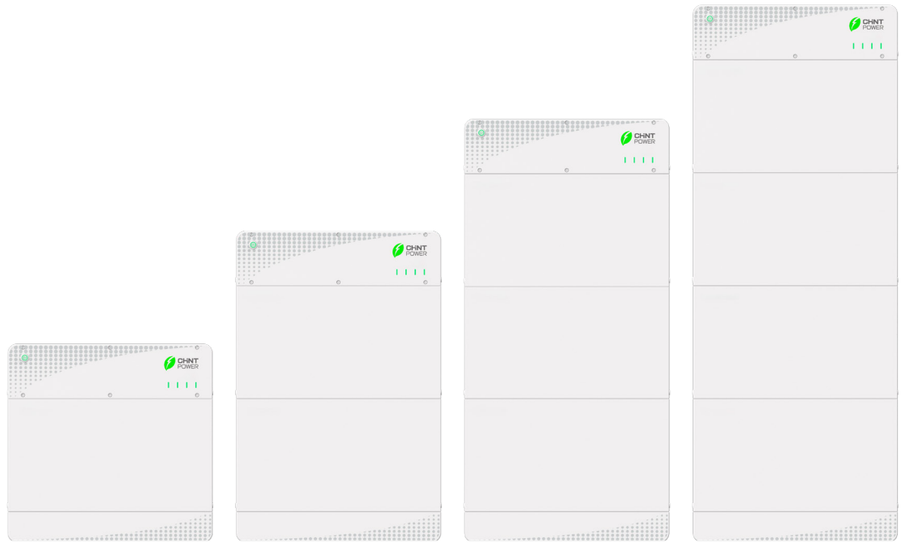
- Reduce wiring work during pack install
- Automatically assign of BMS address

Technical parameters				
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	51.2V	51.2V	51.2V	51.2V
Operating Voltage Range	44.8~57.6V	44.8~57.6V	44.8~57.6V	44.8~57.6V
Max Charge/Discharge Current	50A	100A	120A	120A
Max Power	2.5kW	5.0kW	6.0kW	6.0kW
Rated Charge/Discharge Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Useable Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
DOD	100%	100%	100%	100%
Weight	60kg	104kg	148kg	192kg
Dimension (W*D*H)	670*178*650mm	670*178*1020mm	670*178*1390mm	670*178*1760mm
Product Parallel Extension	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh
Operating Temperature	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	≤3000m	≤3000m	≤3000m	≤3000m
Battery Extension Module				
Module	CPS EBM016100LF-L (Lithium-ion)			
Rated Charge/Discharge Energy	5.12kWh			
Dimension (W*D*H)	670*178*370mm			
Weight	44kg			
EOL	70%			
Power Control Module				
Model	CPS ECD51			
Operating Voltage Range	44.8~57.6V			
Max Charge/Discharge Current	120A			
Dimension (W*D*H)	670*178*280mm			
Weight	8kg			

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

CPS ESSR-05/10/15/20KH1

High Voltage Residential Battery



Flexible

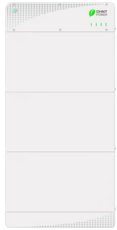
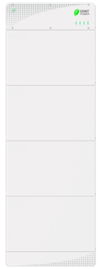
- Standard packs and control modules reduce inventory and design difficulties
- Working below -10oC with self heating

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

Technical parameters				
Model	**CPS ESSR-05KH1**	**CPS ESSR-10KH1**	**CPS ESSR-15KH1**	**CPS ESSR-20KH1**
System Parameters				
Power Control Module	CPS ECD500	CPS ECD500	CPS ECD500	CPS ECD500
Battery Extension Module	CPS EBM032050LF-H	CPS EBM032050LF-H	CPS EBM032050LF-H	CPS EBM032050LF-H
Rated Voltage	102.4V	204.8V	307.2V	409.6V
Operating Voltage Range	89.6~115.2V	179.2~230.4V	268.8~345.6V	358.4~460.8V
Max Charge/Discharge Current	40A	40A	40A	40A
Max Power	4.0kW	8.1kW	12.2kW	16.3kW
Rated Charge/Discharge Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Useable Battery Energy	5.12kWh	10.24kWh	15.36kWh	20.48kWh
DOD	100%	100%	100%	100%
Weight	75kg	131kg	188kg	244kg
Dimension (W*D*H)	770*178*680mm	≈770*178*1040mm	≈770*178*1400mm	≈770*178*1760mm
Product Parallel Extension	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh	Up to 61.44kWh
Operating Temperature	Charge&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, IEC 62040-1, IEC 62477-1, CE EMC, VDE 2510-50, UKCA, UN38.3			
Installation	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount	Floor Mount & Wall Mount
Cooling	Natural	Natural	Natural	Natural
Altitude	≤3000m	≤3000m	≤3000m	≤3000m
Battery Extension Module				
Module	CPS EBM032050LF-H (Lithium-ion)			
Rated Charge/Discharge Energy	5.12kWh			
Dimension (W*D*H)	770*178*410mm			
Weight	56kg			
EOL	70%			
Power Control Module				
Model	CPS ECD500			
Operating Voltage Range	80~500V			
Max Charge/Discharge Current	40A			
Dimension (W*D*H)	770*178*220mm			
Weight	13kg			

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

CPS SCA2~3.6KTL-PS1/EU

Single-Phase String Inverter
2~3.6kW • 1 MPPT • 500Vdc System

Efficient

Appealing yield

- 1 MPPT with Max. Efficiency 97.30%
- Easily compatible with various PV module based on max. input current 15A per MPPT
- 150% DC/AC ratio
- Lower startup & wider MPPT voltage

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter

Safe

Solid quality

- Durable and robust component
- IP65 &C5 protection
- Type II SPD for both DC and AC

Model Name	CPS SCA2KTL-PS1/EU	CPS SCA3KTL-PS1/EU	CPS SCA3.6KTL-PS1/EU
DC Input			
Max. DC Voltage	500Vdc		
MPPT Operating Voltage Range	50-490Vdc		
Start Voltage	70Vdc		
Rated DC Voltage	360Vdc		
Number of MPPT	1		
Number of DC Connection Sets per MPPT	1		
Max. input current per MPPT	15A		
Max. DC short-circuit current per MPPT	20A		
DC Disconnection Type	Integrated Switch		
AC Output			
Rated AC Power	2kW	3kW	3.6kW
Max. AC Power	2.2kVA	3.3kVA	3.6kVA
Rated AC Voltage	220/230V		
AC Voltage Range[1]	160 - 300V		
Grid Connection Type	L/N/PE		
Max. AC Current	10A	15A	16A
Grid Frequency	50/60Hz		
Grid Frequency Range[1]	45-55/55-65Hz		
Power Factor (cosφ)	>0.99(±0.8 adjustable)		
Current THD	< 3%		
System Data			
Topology	Transformerless		
Max. Efficiency	97.30%	97.30%	97.30%
Euro Efficiency	95.90%	96.30%	96.50%
Protection			
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
Ground fault monitoring	Yes		
Surge Protection	DC Type II / AC Type II		
AFCI	Yes		
Environment Data			
Ingress Protection	IP65		
Cooling Method	Natural Convection		
Operating Temperature	-25℃ to +60℃		
Ambient Humidity	0 - 100%		
Altitude	4000m		
Display and Communication			
Display	LED + APP(Bluetooth)		
Communication	RS485/Wi-Fi (Standard) & 4G (Optional)		
Mechanical Data			
Dimensions (W*H*D)	320 * 344 * 137mm		
Weight	6.6kg		
DC Connection Type	MC4 (Max. 6mm²)		
AC Connection Type	Plug and play connector		
Safety			
Certifications[2]	IEC/EN62109-1/2, IEC/EN61000-6/3, IEC 61727,IEC 62116, VDE 4105, CEI 0-21, EN 50549-1, VDE0126-1-1, NTS type A, UNE 217002, RD 647, UNE 217001, INMETRO PORTARIAN N°140, AS4777.2		

*1 AC Power is different under different rated AC voltage.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.
*3 For reference only. Chint Power reserve the right to alterations for the data above.

CPS SCA4.6~6KTL-PSM1/EU

Single-Phase String Inverter
4.6~6kW • 2 MPPTs • 550Vdc System

Efficient

Appealing yield

- 2 MPPTs with Max. Efficiency 97.20%
- Easily compatible with various PV modules based on max. input current 15A per MPPT
- 150% DC/AC ratio
- Lower startup & wider MPPT voltage

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter

Safe

Solid quality

- Durable and robust component
- IP65 &C5 protection
- Type II SPD for both DC and AC

Model Name	CPS SCA4.6KTL-PSM1/EU	CPS SCA5KTL-PSM1/EU	CPS SCA6KTL-PSM1/EU
DC Input			
Max. DC Voltage	550Vdc		
MPPT Operating Voltage Range	70-540Vdc		
Start Voltage	90Vdc		
Rated DC Voltage	360Vdc		
Number of MPPT	2		
Number of DC Connection Sets per MPPT	1		
Max. input current per MPPT	15A		
Max. DC short-circuit current per MPPT	20A		
DC Disconnection Type	Integrated Switch		
AC Output			
Rated AC Power	4.6kW	5kW	6kW
Max. AC Power	5.06kVA	5.5kVA	6kVA
Rated AC Voltage	220/230V		
AC Voltage Range[1]	160 - 300V		
Grid Connection Type	L/N/PE		
Max. AC Current	23A	25A	27.3A
Grid Frequency	50/60Hz		
Grid Frequency Range[1]	45-55/55-65Hz		
Power Factor (cosφ)	>0.99(±0.8 adjustable)		
Current THD	< 3%		
System Data			
Topology	Transformerless		
Max. Efficiency	97.20%	97.20%	97.20%
Euro Efficiency	96.00%	96.20%	96.30%
Protection			
DC reverse connection protection	Yes		
AC short circuit protection	Yes		
Leakage current protection	Yes		
Grid monitoring	Yes		
Ground fault monitoring	Yes		
Surge Protection	DC Type II / AC Type II		
AFCI	Yes		
Environment Data			
Ingress Protection	IP65		
Cooling Method	Natural Convection		
Operating Temperature	-25°C to +60°C		
Ambient Humidity	0 - 100%		
Altitude	4000m		
Display and Communication			
Display	LED + APP(Bluetooth)		
Communication	RS485/Wi-Fi (Standard) & 4G (Optional)		
Mechanical Data			
Dimensions (W*H*D)	350 * 347 * 137mm		
Weight	8.6kg		
DC Connection Type	MC4 (Max. 6mm²)		
AC Connection Type	Plug and play connector		
Safety			
Certifications[2]	IEC/EN62109-1/2, IEC/EN61000-6/3, IEC 61727,IEC 62116, VDE 4105, CEI 0-21, EN 50549-1, VDE0126-1-1, NTS type A, UNE 217002, RD 647, UNE 217001, INMETRO PORTARIAN N°140, AS4777.2		

*1 AC Power is different under different rated AC voltage.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.
*3 For reference only. Chint Power reserve the right to alterations for the data above.

SCA5~25K-T-EU

Three-Phase String Inverter
5~25kW • 2 MPPTs • 1100Vdc System

Efficient

Appealing yield

- 2 MPPTs with Max. Efficiency 98.12%
- Easily compatible with various PV modules based on max. input current 15A per string
- AFCI function standard
- 150% DC/AC ratio
- Lower startup & wider MPPT voltage

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter

Safe

Solid quality

- Durable and robust component
- IP66 &C5 protection
- Type II SPD for both DC and AC

Model Name	SCA5K-T-EU	SCA6K-T-EU	SCA8K-T-EU	SCA10K-T-EU	SCA15K-T-EU	SCA20K-T-EU	SCA25K-T-EU
DC Input							
Max. DC Voltage	1100Vdc						
MPPT Operating Voltage Range	200 - 1000Vdc						
Start Voltage	250Vdc						
Rated DC Voltage	600Vdc						
Number of MPPT	2						
Number of DC Connection Sets per MPPT	1					2	
Max. input current per MPPT	15A					30A	
Max. DC short-circuit current per MPPT	23A					45A	
DC Disconnection Type	Integrated Switch						
AC Output							
Rated AC Power	5kW	6kW	8kW	10kW	15kW	20kW	25kW
Max. AC Power	5.5kVA	6.6kVA	8.8kVA	11kVA	16.5kVA	22kVA	27.5kVA
Rated AC Voltage	380 / 400V						
AC Voltage Range1	277 - 520V						
Grid Connection Type	3 / N / PE						
Max. AC Current	8.4A	10A	13.4A	16.7A	25A	33.4A	41.8A
Grid Frequency	50 / 60Hz						
Grid Frequency Range1	45-55 / 55-65Hz						
Power Factor (cosφ)	>0.99(±0.8 adjustable)						
Current THD	< 3%						
System Data							
Topology	Transformerless						
Max. Efficiency	97.82%	97.87%	97.69%	97.66%	97.87%	97.87%	98.12%
Euro Efficiency	96.93%	96.96%	97.41%	97.41%	97.13%	97.42%	97.87%
Protection							
DC reverse connection protection	Yes						
AC short circuit protection	Yes						
Leakage current protection	Yes						
24h Grid monitoring	Yes						
Ground fault monitoring	Yes						
Surge Protection	DC Type II / AC Type II						
AFCI	Yes						
Environment Data							
Ingress Protection	IP66						
Cooling Method	Cooling Fans						
Operating Temperature	-25°C to +60°C						
Ambient Humidity	0 - 100%						
Altitude	2000m						
Display and Communication							
Display	LED + APP(Bluetooth)						
Communication	RS485 / Wi-Fi (Standard) & 4G (Optional)						
Mechanical Data							
Dimensions (W*H*D)	416 * 526 * 204.5mm						
Weight	17kg				21kg		
DC Connection Type	MC4 (Max. 6 mm²)						
AC Connection Type	OT/DT Terminal (Max.35 mm²)						
Safety							
Certifications2	IEC/EN 61000, IEC/EN 62109, IEC 61727, IEC 62116, IEC 63027, IEC 61683, IEC/EN 62920, EN 55011, C10/11, CEI 0-21, EN50549-1/2, NC RfG, PTPiREE, NTS V2.1, RD 647, RD413, RD 1699, UNE 217002, UTE C15-712-1, DIN VDE 0126-1-1, VDE-AR-N 4105, DIN VDE V 0124, TOR Erzeuger Typ A/B						

*1 “AC Voltage Range” and “Grid Frequency Range” may be differ according to specific grid codes.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.
*3 For reference only. Chint Power reserve the right to alterations for the data above.

SCA30/36K-T-EU

Three-Phase String Inverter
30/36kW • 3/4 MPPTs • 1100Vdc System

Efficient

Appealing yield

- 3/4 MPPTs with Max. Efficiency 98.73%
- Easily compatible with various PV modules based on max. input current 15A per string
- AFCI function standard
- 150% DC/AC ratio
- Lower startup & wider MPPT voltage

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter

Safe

Solid quality

- Durable and robust component
- IP66 &C5 protection
- Type II SPD for both DC and AC

Model Name	SCA30K-T-EU	SCA36K-T-EU
DC Input		
Max. DC Voltage	1100Vdc	
MPPT Operating Voltage Range	200 - 1000Vdc	
Start Voltage	250Vdc	
Rated DC Voltage	615Vdc	
Number of MPPT	3	4
Number of DC Connection Sets per MPPT	2	2
Max. input current per MPPT	30A	
Max. DC short-circuit current per MPPT	45A	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	30kW	36kW
Max. AC Power	33kVA	39.6kVA
Rated AC Voltage	380 / 400V	
AC Voltage Range[1]	277 - 520V	
Grid Connection Type	3 / N / PE	
Max. AC Current	50A	60A
Grid Frequency	50 / 60Hz	
Grid Frequency Range[1]	45-55 / 55-65Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
System Data		
Topology	Transformerless	
Max. Efficiency	98.15%	98.73%
Euro Efficiency	97.91%	98.05%
Protection		
DC reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
24h Grid monitoring	Yes	
Ground fault monitoring	Yes	
Surge Protection	DC Type II / AC Type II	
AFCI	Yes	
Environment Data		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-25°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485 / Wi-Fi (Standard) & 4G (Optional)	
Mechanical Data		
Dimensions (W*H*D)	684 * 488 * 269mm	
Weight	37kg	37.5kg
DC Connection Type	MC4 (Max. 6 mm²)	
AC Connection Type	OT/DT Terminal (Max.35 mm²)	
Safety		
Certifications[2]	IEC/EN 61000, IEC/EN 62109, IEC 61727, IEC 62116, IEC 63027, IEC 61683, RD 413, IEC/EN 62920, EN 55011, C10/11, CEI 0-21, EN50549-1/2, NC RfG, PTPiREE, NTS V2.1, RD 647, RD413, RD 1699, UNE 217002, UTE C15-712-1, DIN VDE 0126-1-1, VDE-AR-N 4105, DIN VDE V 0124, TOR Erzeuger Typ A/B	

*1 “AC Voltage Range” and “Grid Frequency Range” may be differ according to specific grid codes.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.
*3 For reference only. Chint Power reserve the right to alterations for the data above.

SCA50/60K-T-EU

Three-Phase String Inverter
50/60kW • 4 MPPTs • 1100Vdc System

Efficient

Appealing yield

- 4 MPPTs with Max. Efficiency 98.49%
- Easily compatible with various PV modules based on max. input current 40A per MPPT
- AFCI function standard
- 150% DC/AC ratio

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Smart fan cooling
- Support zero export by meter+CT

Safe

Solid quality

- Durable and robust component
- IP66 &C5 protection
- Type II SPD for both DC and AC

Model Name	SCA50K-T-EU	SCA60K-T-EU
DC Input		
Max. DC Voltage	1100Vdc	
MPPT Operating Voltage Range	200 - 1000Vdc	
Start Voltage	250Vdc	
Rated DC Voltage	620Vdc	
Number of MPPT	4	
Number of DC Connection Sets per MPPT	2	
Max. input current per MPPT	40A	
Max. DC short-circuit current per MPPT	50A	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	50kW	60kW
Max. AC Power	55kVA	66kVA
Rated AC Voltage	380 / 400V	
Grid Connection Type	3 / N / PE	
Max. AC Current	83.6A	100.3A
Grid Frequency	50 / 60Hz	
Grid Frequency Range*	45-55 / 55-65Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
System Data		
Topology	Transformerless	
Max. Efficiency*	98.49%	98.48%
Euro Efficiency*	98.44%	98.43%
Protection		
DC reverse connection protection	Yes	
AC short circuit protection	Yes	
Leakage current protection	Yes	
24h Grid monitoring	Yes	
Ground fault monitoring	Yes	
Surge Protection	DC Type II / AC Type II	
AFCI	Yes	
PID Recovery	Yes	
Environment Data		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485 / Wi-Fi (Standard) & 4G / Ethernet (Optional)	
Mechanical Data		
Dimensions (W*H*D)	713 * 609 * 306mm	
Weight	50.5kg	
DC Connection Type	MC4 (Max. 6 mm²)	
AC Connection Type	OT/DT Terminal (Max.70 mm²)	

*1 “Grid Frequency Range” may be differ according to specific grid codes.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.
*3 For reference only. Chint Power reserve the right to alterations for the data above.

SCA100/125K-T-EU

Three-Phase String Inverter
100/125kW • 12 MPPTs • 1100Vdc System

Efficient

Appealing yield

- 12 MPPTs with Max. Efficiency 98.50%
- Easily compatible with various PV modules based on max. input current 30A per MPPT
- Superb temperature performance, full power at 45°C
- 150% DC/AC ratio

Smart

Pragmatic option

- Communication interfaces [RS485/ Wi-Fi (Standard) & 4G (Optional)]
- Built-in Bluetooth and App for local and remote monitoring
- Support zero export by meter+CT

Safe

Solid quality

- Durable and robust component
- IP66&C5 protection
- Type II SPD for both DC and AC

Model Name	SCA100K-T-EU	SCA125K-T-EU
DC Input		
Max. DC Voltage	1100Vdc	
MPPT Operating Voltage Range	200 - 950Vdc	
Start Voltage	300Vdc	
Rated DC Voltage	615Vdc	
Number of MPPT	12	
Number of DC Connection Sets per MPPT	2	
Max. input current per MPPT	30A	
Max. DC short-circuit current per MPPT	45A	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	100kW	125kW
Max. AC Power	110kVA	125kVA
Rated AC Voltage	380 / 400V	
AC Voltage Range[1]	322 - 528V	
Grid Connection Type	3 / N / PE	
Max. AC Current	167.2A	190A
Grid Frequency	50 / 60Hz	
Grid Frequency Range[1]	45-55 / 55-65Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
System Data		
Topology	Transformerless	
Max. Efficiency	98.11%	98.50%
Euro Efficiency	98.00%	98.10%
Protection		
Anti-islanding Protection	Yes	
DC reverse polarity protection	Yes	
DC overvoltage protection	Yes	
Insulation resistance detection	Yes	
Residual Current Monitoring Unit	Yes	
Ground fault monitoring	Yes	
AC short circuit protection	Yes	
AC overvoltage protection	Yes	
PV string monitoring	Yes	
Dry contact remote control	Yes	
I-V curve scan	Yes	
AFCI	Yes	
Surge Protection	DC Type II / AC Type II	
Environment Data		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485/Wi-Fi (Standard) & 4G (Optional)	
Mechanical Data		
Dimensions (W*H*D)	1050 * 660 * 340.5mm	
Weight	90kg	
DC Connection Type	MC4 (Max. 6mm²)	
AC Connection Type	OT/DT Terminal (Max. 240mm²)	
Safety		
Certifications[2]	IEC/EN 61000, IEC/EN 62109, IEC 61727, IEC 62116, EN50549-1/2, IEC 63027, IEC 61683, C10/11, CEI 0-21, NC RfG, NTS V2.1, RD 647, RD 413, RD 1699, UNE 217001, UNE 217002, VDE-AR-N 4110, VDE-AR-N 4105, VDE V 0124-100	

*1 AC Power is different under different rated AC voltage.
*2 The certificates are for reference only.Please consult the local sales staff for detailed certification.
*3 For reference only. Chint Power reserve the right to alterations for the data above.

SCH333/350K-T-EU

Three-Phase String Inverter
333/350kW • 15 MPPTs • 1500Vdc System

Efficient

Higher power generation

- 15 MPPTs with Max. Efficiency 99.00%
- Max. input current 20A per string, compatible with 700Wp+ module
- Superb temperature performance, full power at 45°C
- 150% DC/AC ratio

Smart

Fully controllable

- Comprehensive range of communication interfaces [PLC / Wi-Fi / RS485(Standard) & 4G / Ethernet(Optional)]
- Q at night (SVG) function
- Smart string monitoring based on I-V curve scanning and diagnosis

Safe

Superb quality with rapid response

- Durable and robust component
- Artfully designed air forced cooling system
- IP66&C5 protection
- Type II SPD for both DC and AC
- Full range of grid monitoring and protection
- Built-in anti-PID and PID recovery function
- Smart DC controllable switch, fast and automatic fault breaking

Model Name	SCH333K-T-EU	SCH350K-T-EU
DC Input		
Max. DC Voltage	1500Vdc	
MPPT Operating Voltage Range	500 - 1500Vdc	
Start Voltage	550Vdc	
Rated DC Voltage	1190Vdc	
Number of MPPT	15	15
Number of DC Connection Sets per MPPT	2	2
Max. input current per MPPT	40A	
Max. DC short-circuit current per MPPT	60A	
DC Disconnection Type	Integrated Switch	
AC Output		
Rated AC Power	333kW	350kW
Max. AC Power	333kVA	350kVA
Rated AC Voltage	800V	
AC Voltage Range*	680 - 880V	
Grid Connection Type	3 / N / PE	
Max. AC Current	241A	253A
Grid Frequency	50 / 60Hz	
Grid Frequency Range	45-55 / 55-65Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
System Data		
Topology	Transformerless	
Max. Efficiency	99.00%	
Euro Efficiency	98.80%	
Protection		
Anti-islanding Protection	Yes	
DC reverse polarity protection	Yes	
DC overvoltage protection	Yes	
Insulation resistance detection	Yes	
Residual Current Monitoring Unit	Yes	
Ground fault monitoring	Yes	
Surge Protection	DC Type II / AC Type II	
AC short circuit protection	Yes	
AC overvoltage protection	Yes	
Overheat protection	Yes	
PV string monitoring	Yes	
I-V curve scan&diagnosis	Yes	
PID prevent&recovery	Yes	
Q at night	Yes	
24h gird monitoring	Yes	
Environment Data		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
Display and Communication		
Display	LED + APP(Bluetooth)	
Communication	RS485/Ethernet/PLC/CAN	
Mechanical Data		
Dimensions (W*H*D)	1057 * 810 * 400mm	
Weight	143kg	
DC Connection Type	MC4 (Max. 6mm²)	
AC Connection Type	OT/DT Terminal(Max. 400mm²)	

*1 AC Power is different under different rated AC voltage.
*2 Please consult the local sales staff for detailed certification.
*3 For reference only. Chint Power reserve the right to alterations for the data above.

CPS ES-125kW/261kWh-EU

C&I Turnkey Solution

Key Features

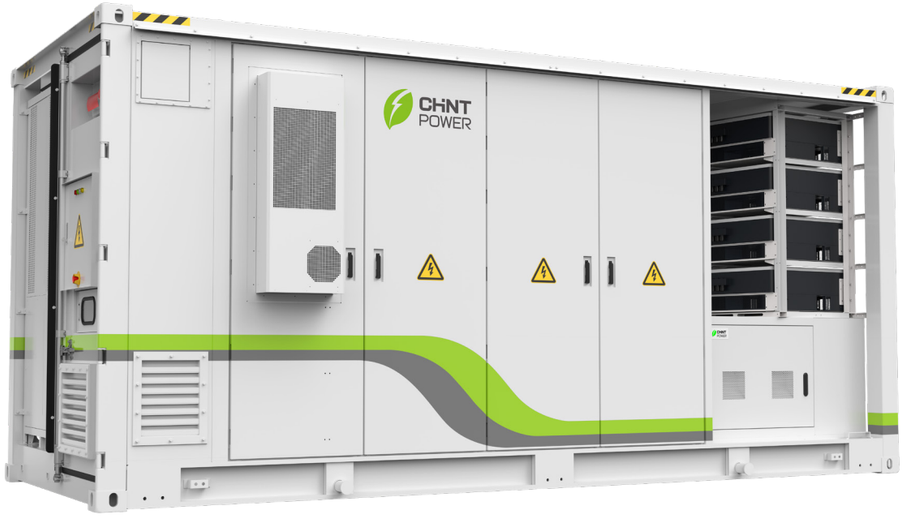
- All-in-one design with higher energy density and a 30% reduction in footprint
- Multi-layer safety protection with upward relief design for a high safety level
- Supports multi-unit parallel connection to adapt to various application scenarios with strong scalability
- Wide environmental adaptability and high reliability.
- Factory pre-installation and testing streamline field maintenance, reducing on-site workload

Model Name	CPS ES-125kW/261kWh-EU
DC Side	
Battery Cell Type	LFP 314Ah
Rack battery capacity	261kWh
Rack rated voltage	832V
Rack voltage range	728V-936V
Alternating Current (AC) side parameters	
Grid type	3P4W
Rated grid voltage	400
Grid voltage range	340-460V
Rated output power	125kW
Rated output current	180 A @ 400 VAC
Maximum output power	138 kW
Maximum output current	200 A @ 400 VAC
Grid voltage range	-15% ~ 15%
Rated grid frequency	50/60Hz
Total current waveform distortion rate	<2% (Linear load, Rated Power)
System parameters	
Dimensions (Length x Width x Height)	1000*1400*2400mm
Weight	2535kg ±50kg
Operating temperature range	-25℃ ~55℃ (>45℃ derating)
Operating humidity range	0%-95% (No condensation)
Protection level	Battery compartment IP55, equipment compartment IP54
Corrosion protection level	C3
Maximum altitude	4000 (>2000m derating)
cooling method	PCS smart natural cooling,Pack liquid cooling
Surge protection	Class II
Safety configuration	Aerosol + temperature sensor + smoke sensor + combustible gas detection
Communication protocol	MOUDBUS-TCP/RTU
Standard certification	IEC61000-6-2/4, CE-EMC, CE-LVD, IEC 62477-1, IEC 62109-1/2, IEC 61727, IEC62116, UNE 217001, UNE 217002-A/B, EN50549-1/2/10 (Poland), VDE 4110, VDE4120, CEI-016, CEI-021, NTS631-A/B, NTS-SENP-A/B, IEC 62619, IEC 63056, IEC/EN 61000-2/4, IEC 62477-1,UN 38.3,UL9540A

* Product specifications and dimensions may be updated based on the latest information provided and are subject to change without prior notice.

CPS ES-1.6MW/3.34MWh-EU

All In One Liquid Cooling Energy Storage System



Key Features

- All in one design, without on-site installation and commissioning
- 6 battery racks, modular PCS etc. are integrated in a 20ft container
- Rack-level management allows the racks to run independently, eliminating the mismatch between parallel racks
- Old and new batteries can be mixed
- Modular design, minimizing the impact of faults and O&M cost, easy to expand
- Intelligent liquid-cooling system, ensures longer battery cycle life

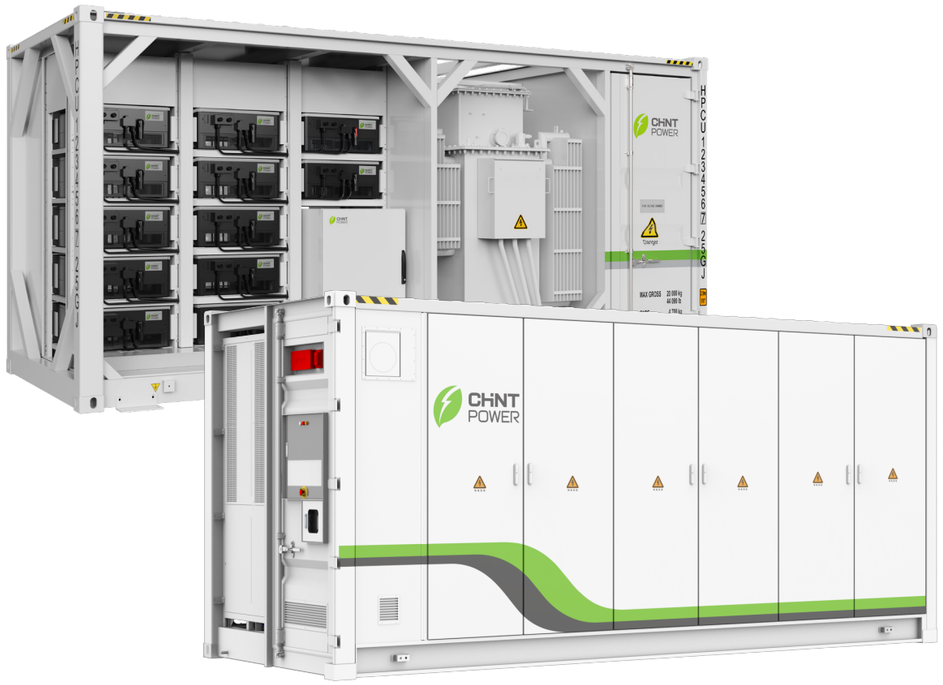
Model Name	CPS ES-0.8MW/3.34MWh-EU	CPS ES-1.2MW/2.5MWh-EU	CPS ES-1.6MW/3.34MWh-EU
DC Parameter			
Rated Voltage	1331.2Vdc		
Battery Voltage Range	1164.8~1497.6Vdc		
Nominal Battery Energy	3344kWh	2508kWh	3344kWh
AC Parameter			
Rated AC Output Power	800kW	1200kW	1600kW
Rated AC Output Voltage	800V		
Output Voltage Range	704V~880V		
Grid Frequency	50Hz / 60Hz		
Grid Frequency Range	±5Hz		
System Parameter			
Protection Degree	IP55		
Cooling Method	PCS: Air Cooling, Batteries: Liquid Cooling		
Operation Temperature	-30°C~55°C		
Operating Humidity	0-95%, non-condensing		
Operating Altitude	≤3000m (derating from 2000m)		
Dimensions (WxHxD)	238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm		
Weight(T)	32T	25T	33T
Display and Communication			
Communication	Ethernet/CAN/RS485		
Safety			
Compliance	Battery: IEC 62477 / IEC 61000 / IEC 62619 / IEC 63056 PCS: IEC61000 / IEC62477 / IEC62109 / IEC 62920		

* Product specifications and dimensions may be updated based on the latest information provided and are subject to change without prior notice.

Energy Storage System

CPS ES-2MW/2.4MW-EU 2/4h

Utility Energy Storage System



Key Features

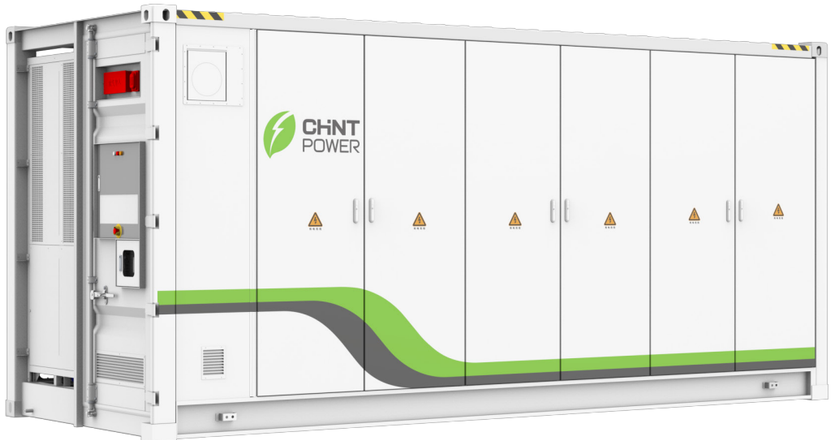
- Fully integrated system with minimum on-site installation and commission efforts
- High energy density: 5MWh in one 20ft container, 2.4MW PCS skid in one 20ft container
- Modular design, reducing O&M costs, easy to expand
- Outdoor design, IP54 rated for application in different environments
- New and old battery racks can be integrated
- Comprehensive fire prevention design to ensure system safety
- Smart cooling control to improve battery performance and lifecycle
- Rack-level control and management for ESS, improved availability and efficiency

Model Name (PCS Skid, Battery Container)	PCS Skid: CPS PSW2.4M-EU Battery Container: CPS ES-5015KWH-EU		PCS Skid: CPS PSW2M-EU Battery Container: CPS ES-4179KWH-EU	
Battery Parameter				
Battery Capacity	5MWh	2x5MWh	4.179MWh	2x4.179MWh
Battery Cell	LFP 314Ah			
Pack Configuration	1P52S			
Battery Configuration	1x12P416S	2x12P416S	1x10P416S	2x10P416S
Rate Voltage	1331.2V			
Operating Voltage Range	1164~1497V			
Electrical Parameter				
Rated AC Output Power	12x200kW		10x200kW	
Medium Voltage Rating	6~35kV			
Grid Frequency	50Hz / 60Hz			
Vector Group	Dy1, Dy11			
Cooling Method	ONAN			
System Parameter				
Protection Degree	PCS Skid: IP54 ; Battery Container: IP55			
Cooling Method	PCS: Air Cooling, Batteries :Liquid Cooling			
Operating Temperature Range	-30°C to 50°C (>45°C derating)			
Operating Altitude	3000m (>2000m derating)			
Operating Humidity	0-95%, non-condensing			
PCS Weight	16T	16T	15T	15T
Battery Container Weight	43T	2x43T	37T	2x37T
Dimensions (WxHxD)	PCS Skid: 238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm Battery Container: 238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm			
Display and Communication				
Communication	RS485 / Ethernet / CAN			
Communication protocol	Modbus-TCP/RTU			
Safety				
Certifications and Standards	Battery : IEC 62477 / IEC 61000 / IEC 62619 / IEC 63056 / ISO 14067 PCS: IEC 61000 / IEC 62477 / IEC 62109 / IEC 62920			

* Product specifications and dimensions may be updated based on the latest information provided and are subject to change without prior notice.

CPS ES-5015KWH

Battery Energy Storage System



Key Features

- Fully integrated system with minimum on-site installation and commission efforts
- High energy density: 5 MWh in one 20ft container Multiple-point electrical linkage measures
- Easy to expand with CPS's modular and string design
- Integrated fast-acting fault protection
- Comprehensive fire prevention design to ensure system safety
- Smart cooling control to improve battery performance and lifecycle

Model Name	CPS ES-5015KWH
Battery Parameter	
Battery Capacity	5015.96kWh
Battery Cell	314Ah
Pack Configuration	1P52S
Battery Configuration	12 x 1P416S
Rate Voltage	1331.2V
Operating Voltage Range	1164~1497V
Maximum Power	2508kW
System Parameter	
Protection Degree	IP55
Cooling Method	Liquid Cooling
Operation Temperature	-25°C~50°C
Operating Humidity	0-95%, non-condensing
Operating Altitude	≤6561.7ft / 2000m
Dimensions (WxHxD)	238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm
Weight	43T
Communication	RS485/Ethernet / CAN
Protocol	Modbus RTU / Modbus TCP / CAN
Auxiliary Power Input	3P+N 400Vac / 50kVA
Safety	
Compliance	IEC 62477 / IEC 61000 / IEC 62619 / IEC 63056 / ISO 14067

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CPS ES-9.6MW/20MWh-EU

Utility Energy Storage System

Key Features

- Pre-assembled system design with standard container transportation for the entire unit
- Battery, PCS, and transformer compartmentalized design for isolating faults and flexible combination
- Equipment supply with in-factory pre-assembly and testing for quick grid connection on-site
- Maximum 9.6MW system matrix to reduce equipment quantity and lower system costs
- One cluster, one management design to eliminate inter-cluster circulating currents, ensuring high system availability
- Custom design for ease of maintenance and expansion
- High protection design for the system, ensuring adaptability to various environmental conditions

Model Name	CPS ES-9.6MW/20MWh-EU
Model Name (Battery Container, PCS Skid, PMVS transformer)	Battery Container: CPS ES-5015KWH-EU PCS Skid: CPS PSA4.8MW-EU PMVS: CPS PSA9.6MO
Battery Parameter	
Battery Capacity	4x5MWh
Battery Cell	LFP 314Ah
Pack Configuration	1P52S
Battery Configuration	4x12P416S
Rate Voltage	1331.2V
Operating Voltage Range	1164~1497V
PCS Parameter	
Rated AC Output Power @ PF>0.99	2 x 24 x 200kW
Operating DC input Voltage Range	950~1500V
Output Voltage	800Vac (704~880Vac)
Grid Connection Type	3-Phase/PE
Max. AC Output Current @ 800Vac	145A
Nominal Grid Frequency / Grid Frequency	50Hz/60Hz (±5Hz)
DC/AC Surge Protection	Type II
PMVS Parameter	
Rated Input Voltage	800V
Rated AC Output Power	9.6MW
Medium Voltage Rating	6~35kV
Grid Frequency	50Hz / 60Hz
Vector Group	Dy11-y11
Cooling Method	ONAN
Surge Protection	Type II
System Parameter	
Protection Degree	PCS Skid: IP54; Battery Container: IP55; PMVS: IP54
Cooling Method	PCS Skid: Variable speed cooling fans, Batteries :Liquid Cooling; PMVS:ONAN
Operating Temperature Range	-20°C to 50°C (derating from +45°C)
Operating Altitude	PCS: 9842.5ft / 3000m (no derating); Battery Container ≤6562ft / 2000m; PMVS≤3281ft / 1000m
Operating Humidity	0-95%, non-condensing
PCS Skid Weight	12T
Battery Container Weight	4x43T
PMVS Weight	<30T
Dimensions (WxHxD)	238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm
Display and Communication	
Communication	RS485 / Ethernet / CAN
Communication protocol	Modbus-TCP / RTU
Safety	
Certifications and Standards	Battery: IEC 62477 / IEC 61000 / IEC 62619 / IEC 63056 / ISO 14067 PCS: IEC61000 / IEC62477 / IEC62109 / IEC 62920 PMVS: IEC 62271-202 / IEC 50708-3 / IEC 62271-200 / IEC 61439-2

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CPS PSA4.8MW -EU

Energy Storage System

Key Features

- 4.8MW Skid, with high power integration density
- PCS has IP66 protection degree, suitable for C5 environment
- Standard 20-foot container integration, pre-assembled and pre-adjusted in the factory, convenient for transportation and installation
- AC 800V output, compatible with photovoltaic and energy storage coupling solutions
- Wide DC voltage range, suitable for various batteries
- Modular design of the PCS, easy to maintain and expand

Model Name	CPS PSA4.8MW -EU
DC Parameter	
Max.DC Input Voltage	1500V
Min.DC Input Voltage	875V
Operating DC input Voltage Range	950~1500V
Max.DC Input Current	24 x 218A
DC Disconnection Type	Load-rated DC Switch
AC Parameter	
Rated AC Output Power @ PF>0.99	24 x 200kW
Rated Output Voltage	800V
Output Voltage Range	704~880V
Grid Connection Type	3-Phase / PE
Max. AC Output Current @ 800Vac	24 x 145A
Grid Frequency / Grid Frequency Range	50Hz / 60Hz (±5Hz)
Power Factor	-1~+1
AC Current THD	<3%
DC Current Injection	<0.5% Inom
AC Surge Protection	Type II
System Parameter	
Dimensions (WxHxD)	238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm
Weight	<12T
Enclosure Protection Degree	IP54
Cooling Method	Variable speed cooling fans
Operating Temperature Range	-30°C to +60°C (derating from +45°C)
Operating Humidity	0~95%
Operating Altitude	9842.5ft / 3000m (no derating)
Display and Communication	
Communication	CAN / Ethernet / RS485
Safety	
Certifications and Standards	IEC61000 / IEC62477 / IEC62109 / IEC 62920

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CPS ECB200KTL

1500Vdc PCS String Inverters

Key Features

- NFPA 70, NEC 2017 compliant
- Integrated DC disconnect switch
- Protection functions for enhanced reliability and safety
- Full power capacity up to 45°C
- IP65 outdoor rated
- Integrated DC-DC bi-directional converter
- Standard 5-year warranty with extension to 20 years
- Wide DC voltage range, suitable for different batteries
- Modular design, easy for maintenance

Model Name	CPS ECB200KTL
DC Parameter	
Max.DC Input Voltage	1500V
Min.DC Input Voltage	875V
Operating DC input Voltage Range	950~1500V
Max.DC Input Current	218A
Max.DC Input Power	207kW
DC Disconnection Type	Load-rated DC Switch
DC Surge Protection	Type II
AC Parameter	
Rated AC Output Power @ PF>0.99	200kVA / 200kW @ 45°C; 170kVA / 170kW @ 50°C
Rated Output Voltage	800Vac
Output Voltage Range	704~880Vac
Grid Connection Type	3-Phase / PE
Max. AC Output Current @ 800Vac	145A
Grid Frequency	50Hz / 60Hz
Grid Frequency Range	±5Hz
Power Factor	-1~+1
AC Current THD	<3%
DC Current Injection	<0.5% Inom
AC Surge Protection	Type II
System Parameter	
Max. Efficiency	98%
CEC Efficiency	97%
Dimensions (WxHxD)	29.5 x 13.1 x 33.5in / 750 x 332 x 850mm
Weight	120kg
Protection Degree	IP66
Cooling Method	Variable speed cooling fans
Operating Temperature Range	-30°C to +60°C (derating from +45°C)
Operating Humidity	0~100%
Operating Altitude	9842.5ft / 3000m (no derating)
Display and Communication	
User Interface and Display	LED indicators, WiFi + APP
PCS Inverter Monitoring	CAN / Ethernet / RS485
Safety	
Certifications and Standards	IEC 62109 / IEC 62477 / IEC 61000 / IEC 62920 / EN 50549-2:2019 / EN 50549-10:2022 / RfG:2016 / NC RfG:2018 / PTPiREE:2021 / UNE 217001:2020 / RD 647:2020 / RD 1699:2011 / RD 661:2007 / RD 413:2014 / UNE 217002:2020 / NTs Version 2.1 / VDE 4110 / VDE 4120

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CPS Remote Monitoring Platform

CPS Portal is a web-based platform for PV monitoring, enabling analysis and presentation of PV systems. Data collected from PV systems are transmitted to and analyzed by CPS portal, and then displayed in various formats that are easy to understand. Automatic alarms are available so that any malfunctions or abnormal conditions can be identified and reported immediately. Users can easily access CPS portal to monitor PV systems at anytime and from anywhere. This easy-to-use platform makes monitoring of PV systems simple and convenient, far reducing time and costs as well.

The portal can deal with data collected from CPS external data logger, embedded monitoring module, and weather station, etc. In addition, data from other devices can be analyzed and recorded as well if required by customers.

All data collected from devices are saved in multiple servers located all over the world, ensuring high-quality and stable service for our global users, and ensuring security of database as well to prevent loss of data.

- User-friendly and multilingual interface
- Web-based remote management
- Easy access via Internet by computer and smartphone
- Visualized real-time data and historical data for analysis and easy understanding
- A variety of formats for better presentation
- Automatic alarms as customized by users
- Data and event reports sent via email regularly as specified
- Demonstration power stations for reference, system information available to share through the portal

Data Display

- Daily, monthly, annual and total yield
- Historical data records
- Log records
- Malfunction records
- Daily, monthly and annual reports
- Display of weather information

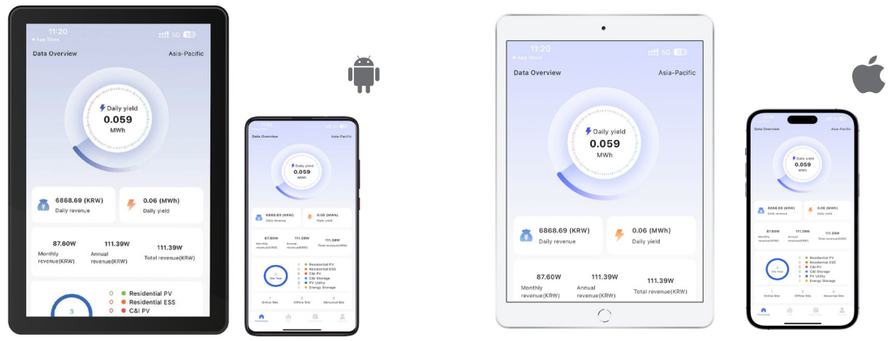
Data Ananlysis

- Analysis on generating efficiency
- Analysis on performance of systems and devides
- Total earnings of systems
- Total reduction of CO2 emission
- Comparison of system performance

Model Name	CPS Portal
Language	
Supported device number	English, Spanish, Thai, Czech, Portuguese, Chinese
System Requirements	
Supported Operating Systems	All/optimized access for mobile devices
Software	
Recommended Browsers	FireFox, Internet Explorer 7 or later, Safari, Chrome
Other	JavaScript and Cookies enabled
Access	
Access	solar.chintpower.com
Smartphone	CPS App for iPhone and Android
Plant Management	
CPS Portal Account	One password for all your plants in CPS Portal

CPS App

Mobile Monitoring at Anytime and Anywhere



CPS App is available on iPhones and smartphones with Android OS, enabling mobile monitoring of your PV systems easier and quicker. Both real-time and historical data can be displayed with transparent graphs and in daily, monthly, annual and overall format. Besides power and yield, data such as CO2 savings, weather condition and sensor information can be displayed as well.

CPS App can support both remote and local mode. With remote mode, you can view all data as same as CPS portal; and with local mode, you can get direct access to the web server of CPS monitoring device via WiFi and check the performance of your PV system.

- Real-time and historical data displayed via internet at any time
- Visualized data with transparent graphs
- Daily/monthly/annual/overall data
- CO2 savings, weather and sensor data displayed
- Local mode enables direct access to system data via WiFi

SCS100B Seria

WiFi Dongle

Smart And Flexible

- Supporting mainstream WLAN networking protocols
- Remote monitoring, support parameter setting and firmware upgrade
- Local configuration, support directly connect to inverter via Bluetooth

Simple

- Plug and play, quick installation to MatriCloud
- High efficient O&M, support remote fault diagnosis

Safe

- Fault data real-time upload
- IP66, wide temperature range

Model	SCS100B Series
Basic data	
Supported device number	1
LED display	LED * 3
Power consumption	Typ. 3W
Communication	
WLAN	2.4GHz, 802.11 b / g / n
Ambient conditions	
Operating temperature	-30°C - +60°C
Humidity range	0-95%, non-condensing
Max. operating altitude	≤4000m
Protection class	IP66
Mechanical parameters	
Dimensions (W*H*D)	64mm*118mm*32mm
Installation	Plug and play

Chint Power Smart COMBOX

Chint Power communication box integrated multi-functional data collector and suitable for C&I and Power Station systems at different voltage levels. With the function of physical channel conversion, communication protocol conversion, it can meet the requirements of serial inverters data collector, such as Modbus acquisition, Modbus configuration visualization, inverter software batch upgrade and other services.

The data acquisition can support various protocol and it can connect various devices from different manufactures to the background monitoring management platform through Ethernet(IEC104, TCP), RS232 and RS485. Meanwhile it has DI, DO, AI, AO and PT100 connectors for multiple application.

Features

- Comply with all Chint Power inverters
- Pre-configured for Plug & Play
- Capability with Chint Power O&M platform
- Hardware mounted and pre-wired
- IP65 rated enclosure
- Support local real-time monitoring

Technical Data

Environment Data	
Operating Temperature	-30℃ ~ 70℃
Ambient Humidity	5%~95%,Non-condensing
Storage Temperature	-40℃ ~ 85℃
Altitude	≤4000m
Ingress Protection	IP65
Product Parameters	
Product Description	Including: Data Collector, Converter, Air Circuit Breaker Support: Ethernet(Standard), 4G(Optional)
Electric Parameters	
AC Input	100~240Vac, 50/60Hz
AC-PLC Voltage	380V~800Vac, Three-phase
Communication Interface	
RS232	2*50~115.2Kbps
RS485	4*50~115.2Kbps
Ethernet	2*10M/100M/1000Mbps
Digital / Analog Input / Output	DI*8, DO*4, AI*4, AO*1
PT100	2
HPLC	Multi-core cables: 1000m; Single-core cables:300m (the three-phase cables must be bound at an interval of 1 m)[1]
Communication Protocol	
Ethernet	Modbus-TCP, IEC 60870-5-104
RS485	Modbus-RTU, IEC 60870-5-103 (standard), DL / T645
Mechanical Parameters	
Dimensions (W*H*D)	550mm*620mm*260mm
Weight	10Kg

Note[1]: RS485 communication is recommended if the AC cable is longer than 300m.

SAU100J0

Smart Power Controller

The SAU box is a smart power controller developed by Chint Power Systems. When connected with a ChintPower solar inverter, it is able to achieve real-time data collection and analysis. Furthermore, the SAU can automatically adjust active power output, power factor and other parameters of a solar plant. It can also limit AC output to the grid according to the load power, which further distributes and allocates system resources more effectively. The SAU is composed of Chint three-phase meter and SEC(Smart Ethernet Card). It can be connected with MatriCloud to provide the remote monitoring function.

Features

- System self-consumption monitoring
- Export limitation for commercial projects
- Support online monitoring and online service

System & Monitoring Product

Model	SAU100J0
Communication	
Max. Inverters Connected	10
RS485	1
Ethernet	1 × RJ45, 10 / 100 Mbps
4G	LTE-FDD B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 LTE-TDD B34/38/39/40/41 WCDMA B1/2/4/5/6/8/19
Configuration	
Datalogger	Smart Ethernet Card x 1
Meter	DTSU666~1.5A(6A)+3CTs
Compatible Current Transformer *	nA:5A
Nominal voltage	230/400Vac, 50/60Hz
Mechanical	
Demensions(W x H x D)	400*300*180mm
Weight	6kg
Installation Method	Wall mounting
Environment	
Operating Temperature Range	-30°C ~ +60°C
Storage Temperature Range	-40°C ~ +70°C
Relative Humidity	0 ~ 100%
Max. Operating Altitude	4000m
Ingress Protection Rating	IP66

*Standard configuration is 300A:5A, can use customized current transformers. The secondary nominal rms current must be 5A.

System & Monitoring

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