

# CPS SCA5~25KTL-T1/EU

Three-Phase String Inverter

5-25kW / 2 MPPTs / 1100Vdc System



Inverter

## Efficient

### Appealing yield

- 2 MPPTs with Max. Efficiency 98.2%
- Easily compatible with various PV modules based on max. input current 15A per string
- $\geq 150\%$  DC/AC ratio
- Lower startup & wider MPPT voltage

## Smart

### Pragmatic option

- Communication interfaces [RS485/Wi-Fi (Standard) & Ethernet/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 SCA5KTL-T1/ EU	CPS SCA6KTL-T1/ EU	CPS SCA8KTL-T1/ EU	CPS SCA10KTL-T1/ EU	CPS SCA15KTL-T1/ EU	CPS SCA20KTL-T1/ EU	CPS SCA25KTL-T1/ EU
<b>DC Input</b>							
Max. DC Voltage	1100Vdc						
MPPT Operating Voltage Range	160 - 1000Vdc						
Start Voltage	180Vdc						
Rated DC Voltage	620Vdc						
Number of MPPT	2			2		2	
Number of DC Connection Sets per MPPT	1			2/1		2	
Max. input current per MPPT	15A			30A/15A		30A	
Max. DC short-circuit current per MPPT	20A			40A/20A		40A	
String Fuse	/						
DC Disconnection Type	Integrated Switch						
<b>AC Output</b>							
Rated AC Power	5KW	6KW	8KW	10kW	15kW	20kW	25kW
Max. AC Power	5.5KVA	6.6KVA	8.8KVA	11.2KVA	16.7kVA	22kVA	27.5kVA
Rated AC Voltage	380/400/415V						
AC Voltage Range <sup>1</sup>	260 - 510V						
Grid Connection Type	3Φ / N / PE						
Max. AC Current	8.4A	10.1A	13.4A	17.0A	25.3A	33.7A	39.8A
Grid Frequency	50/60Hz						
Grid Frequency Range <sup>1</sup>	45-55/55-65Hz						
Power Factor (cosφ)	>0.99(±0.8 adjustable)						
Current THD	< 3%						
AC Disconnection Type	/						
<b>System Data</b>							
Topology	Transformerless						
Max. Efficiency	98.0%	98.0%	98.0%	98.0%	98.2%	98.2%	98.2%
Euro Efficiency	97.4%	97.4%	97.4%	97.4%	97.6%	97.7%	97.7%
Consumption at Night	<1W						
<b>Protection</b>							
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	Option						
<b>Environment Data</b>							
Ingress Protection	IP66						
Cooling Method	Natural Convection					Cooling Fans	
Operating Temperature	-25°C to +60°C						
Ambient Humidity	0 - 100%						
Altitude	4000m						
<b>Display and Communication</b>							
Display	LED + APP(Bluetooth)						
Communication	RS485/Wi-Fi (Standard) & Ethernet/4G (Optional)						
<b>Mechanical Data</b>							
Dimensions (W*H*D)	398 * 460 * 190mm						
Weight	16.8kg			18.7kg		20.1kg	
DC Connection Type	MC4 (Max. 6 mm <sup>2</sup> )						
AC Connection Type	OT/DT Terminal						
<b>Safety</b>							
Certifications <sup>2</sup>	EN/IEC 62109,IEC 61727,IEC61000-6,EN 50549-1,RD 1699,UNE 217001,VDE 4105,CEI 0-21, AS4777.2,TOR Erzeuger Typ A						

\*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.

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

# 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 Analysis

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

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

# 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.

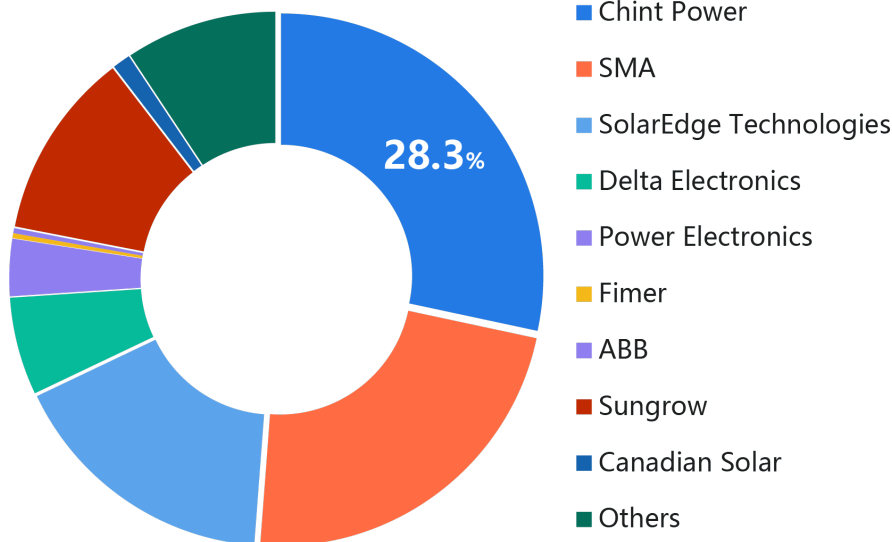
2014, According to the Total Shipment, Chint Power rank 13 of global PV Inverter market announced by GTM. Since 2015 to now, CPS three phase string inverter started dominate commercial segment of US market.

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 source: 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

