

# CPS SCH275KTL-DO/EU

Three-Phase String Inverter

275kW / 6/12 MPPTs / 1500Vdc System



Inverter

## Efficient

### Higher power generation

- 6/12 MPPTs with Max. Efficiency 99%
- Max. input current 20A per string, compatible with 600Wp+ module
- Superb temperature performance, full power at 42°C
- Compatible with cables up to 400mm<sup>2</sup>

## Smart

### Fully controllable

- Comprehensive range of communication interfaces [PLC / Wi-Fi / RS485(Standard) & 4G / Ethernet(Optional)]

## 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

Model Name	CPS SCH275KTL-DO/EU	
<b>DC Input</b>		
Max. DC Voltage	1500Vdc	
MPPT Operating Voltage Range	500-1450Vdc	
Start Voltage	550Vdc	
Rated DC Voltage	1190Vdc	
Number of MPPT	12	6
Number of DC Connection Sets per MPPT	2	3
Max. input current per MPPT	30A	60A
Max. DC short-circuit current per MPPT	50A	90A
String Fuse	/	25A
DC Disconnection Type	Integrated Switch	
<b>AC Output</b>		
Rated AC Power	275kW	
Max. AC Power	275kVA	
Rated AC Voltage	800V	
AC Voltage Range <sup>2</sup>	680 - 880Vac	
Grid Connection Type	3Φ / PE(IT system <sup>1</sup> )	
Max. AC Current	198.5A	
Grid Frequency	50/60Hz	
Grid Frequency Range <sup>2</sup>	47-53/57-63Hz	
Power Factor (cosφ)	>0.99(±0.8 adjustable)	
Current THD	< 3%	
AC Disconnection Type	/	
<b>System Data</b>		
Topology	Transformerless	
Max. Efficiency	99.0%	
Euro Efficiency	98.5%	
Consumption at Night	< 6W	
<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	/	
<b>Environment Data</b>		
Ingress Protection	IP66	
Cooling Method	Cooling Fans	
Operating Temperature	-30°C to +60°C	
Ambient Humidity	0 - 100%	
Altitude	4000m	
<b>Display and Communication</b>		
Display	LED + APP(Bluetooth)	
Communication	PLC / Wi-Fi / RS485(Standard) & 4G / Ethernet(Optional)	
<b>Mechanical Data</b>		
Dimensions (W*H*D)	1100 * 680 * 337mm	
Weight	105kg	
DC Connection Type	MC4 (Max. 6mm <sup>2</sup> )	
AC Connection Type	OT/DT Terminal (Max. 300mm <sup>2</sup> )	
<b>Safety</b>		
Certifications <sup>3</sup>	IEC61000-6,IEC/EN 62109,IEC61727/62116/61683/60068,EN50549,NC RfG,NTS_V2.1	

<sup>1</sup> Transformer compatibility: this model only supports connection with IT systems, not compatible with TN/TT systems.

<sup>2</sup> AC Power is different under different rated AC voltage.

<sup>3</sup> 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.

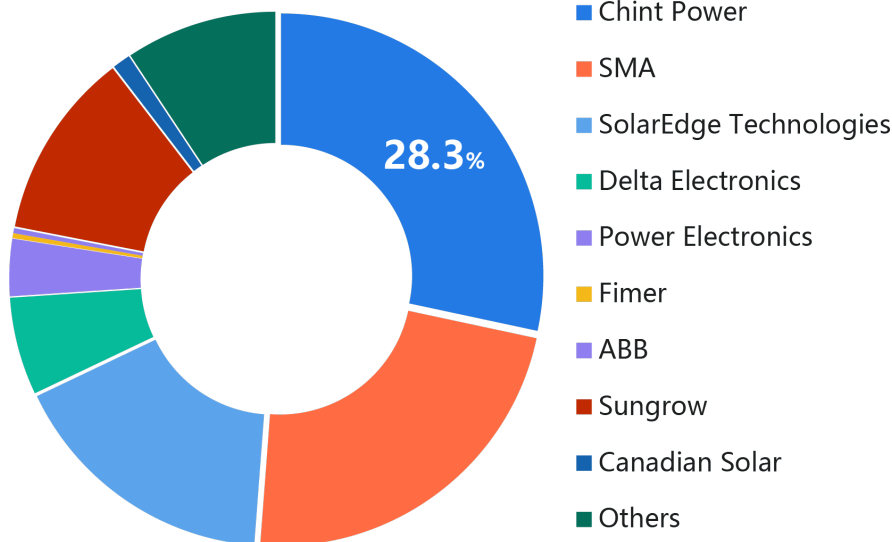
2014, According to the Total Shipment, Chint Power rank 13 of global PV Inverter market announced by GTM. Since 2015 to now, CPS three phase string inverter started dominate commercial segment of US market.

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

