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**PV INVERTER**

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# ABOUT CHINT



## CHINT A leading global provider of smart energy solutions

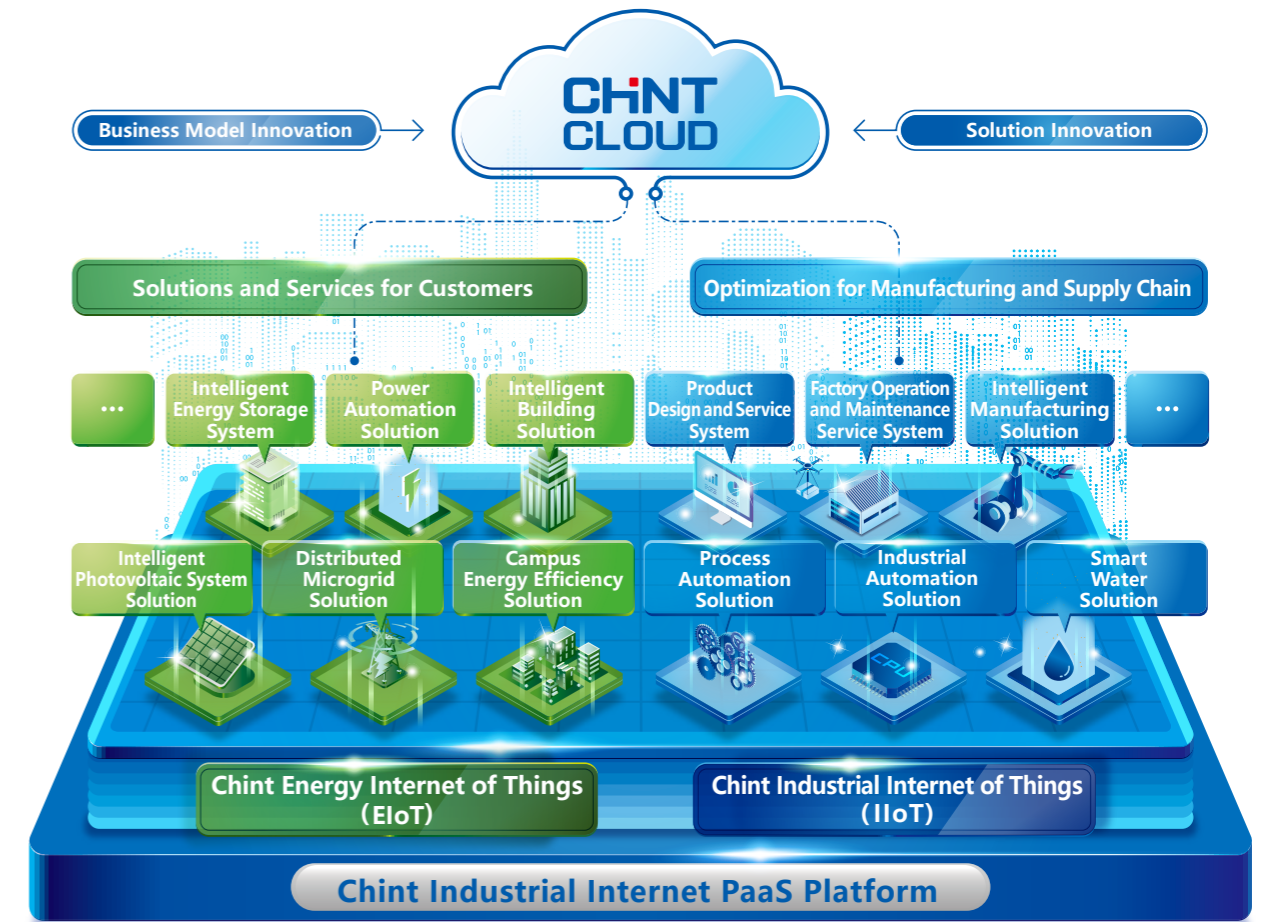
Founded in 1984, CHINT is a leading global provider of smart energy solutions. It is actively deploying industrial sectors including smart electrics, green energy, industrial control and automation and smart home, forming an integrated whole industry chain of “power generation, storage, transmission, substation, distribution, sales and consumption”. And it boasts an extensive business network across over 140 countries and regions as well as more than 30,000 employees and an annual sales revenue of over USD 13.85 billion. CHINT has been ranking among China’s Top 500 companies for 20 consecutive years. Its subsidiary, CHINT Electrics is the first company in China with low-voltage electrics as its main business getting listed on the A-share market as one of the Top 50 Asian listed companies.

To comply with the trend of integrated development of modern energy, intelligent manufacturing and digital technology, CHINT has adopted “One Cloud & Two Nets” as the business strategy. CHINT Cloud fulfills digital application and services in both

internal and external as the platform of intelligent technology and data application. Based on the Industrial Internet of Things (IIoT), CHINT built an intelligent manufacturing system and realizes intelligent application in electrical industry. Relying on the Energy Internet of Things (EIoT), CHINT built its smart energy system and develops the regional EIoT mode.

Focusing on energy system of supply, storage, transmission, distribution and consumption, CHINT has core businesses of clean energy, energy distribution, big data and energy value-added services. Furthermore, CHINT pillar businesses include photovoltaic equipment, energy storage, power transmission & distribution, low-voltage apparatuses, intelligent terminals, software development and control automation. With developing into a platform-based enterprise, CHINT provides a package of energy solutions for public institutions, industrial & commercial users and end users, by building a regional smart energy operation ecosphere.

# ONE CLOUD & TWO NETS STRATEGY



Energy system optimization is an inevitable trend against the background of resource shortage, environmental pollution and climate change – three challenges faced by global energy development. To keep in line with the trend, CHINT actively implements the business strategy of One Cloud & Two Nets, continuously promotes the deep integration of big data, IoT, AI and manufacturing industry in stages to become a platform-based enterprise, and leads the new direction of industry development.

As a medium of smart technology and data applications, CHINT Cloud connects corporate in-house manufacturing with operation and management data, realizing digital applications and services both internally and externally.

As a user-centric multi-energy complementary smart energy system, CHINT EIoT provides a package of energy solutions for governments, industrial & commercial users and end users.

As a smart manufacturing system based on corporate digital transformation, CHINT IIoT constitutes a flexible, high-efficiency and intelligent industrial system.

# Chint Power Systems Innovation

## Heritage

Shanghai Chint Power Systems is a solar power system solution provider, designing, manufacturing, and supplying high reliability 1kW ~ 3.125 MW PV inverters and power solutions for customers. An international senior management team, experienced and solid research and development resources, advanced component control and design-for-reliability, strong financial support from Chint Group, and inheritance of Chint 35 years' manufacturing experiences and volume, have founded Chint Power System's brand in the field of renewable energy.

## Our Business

The state-of-art newly designed CPS SCA/SCH family of Grid-tie PV Inverter features itself with full load high efficiency, high reliability and user-friendly interface. Patented 3-level NPC technology and control algorithm lead high efficiency. CPS provides comprehensive solutions for the development of solar power projects. For clients, who are keen about establishing a long-term sustainable solution through investment in solar power generation, CPS offers complete end-to-end solutions, right from site evaluation and construction to maintenance of solar farms.

## Our Advantages

Offer full product line from PV module, cable, DC&AC panel, inverter, monitoring system and power T&D products. Provide reliable, green and high efficiency power solutions.

Equip with a number of patented technologies and is certified for VDE, G83, G59, ENEL, RD1663, UL/CSA, FCC part15, ETL, C10/11 and Golden Sun etc.



# 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.

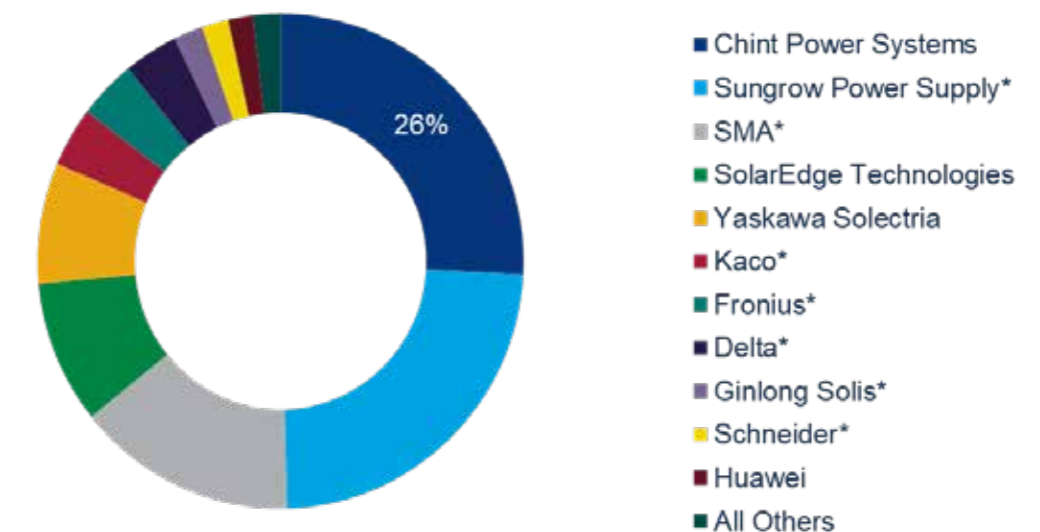
2014, According to the Total Shipment, Chint Power rank 13 of global PV Inverter market announced by GTM. Since 2015 to now, CPS three phase string inverter started dominate commercial segment of US market.

2020, Wood Mackenzie (GTM Research) released "Global solar PV and module-level power electronics inverter market share 2020". According to the report, CPS ranked 1st in three phase string inverter shipments in the U.S.A with 26% of the market share 2019. The report also showed that the shipment ranked 16th globally last year.

**GTM/ Wood Mackenzie:**  
**In 2019, CPS ranked 1st in three phase string inverter shipments in the U.S.A with 26% of the market share.**



U.S. Three-Phase String Market Share by Shipments (MWac)



Source: Wood Mackenzie Market Report; Global Solar PV and Module-level Power Electronics Inverter Market Share 2020





# PV Inverter Overview

## PV Inverters

### Single phase string inverters



2/3kW

3~6kW

### Three phase string inverters



6~15kW

20~30kW

110kW

275kW

# CPS SCA2/3KTL-S/EU

Chint Power Single-phase Inverter  
High Return of the Whole Life Cycle



## Low Investment

Single-phase string series inverters products providing standard configuration DC switch and optional 4G/Wi-Fi/RS232 communication, which can match the requirements of different customers, support 10% rated overload and no-screen design, which can efficiently decrease initial investment of system.

## High Profits

High DC/AC ratio up to 1.5; Single-phase string inverters can provide 97.6% maximum efficiency, 97.3% Euro efficiency, 99.5% MPPT efficiency, fan-less topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

## Maintenance Warranty

String inverter can support remote monitoring, fault diagnosis and software upgrade, 7\*24H after-sales service can guarantee the maintenance of the Whole Life Cycle.

| Model Name                             | CPS SCA2KTL-S/EU   | CPS SCA3KTL-S/EU |
|--|--|------------------|
| <b>DC Input</b>                        |  |                  |
| Max. DC Voltage                        | 600Vdc   |                  |
| MPPT Operating Voltage Range           | 70-580Vdc  |                  |
| Start Voltage                          | 90Vdc  |                  |
| Rated DC Voltage                       | 360Vdc   |                  |
| Number of MPPT                         | 1  |                  |
| Number of DC Connection Sets per MPPT  | 1  |                  |
| Max. input current per MPPT            | 13A  |                  |
| Max. DC short-circuit current per MPPT | 15A  |                  |
| DC Disconnection Type                  | Integrated Switch  |                  |
| <b>AC Output</b>                       |  |                  |
| Rated AC Power                         | 2000W  | 3000W            |
| Max. AC Power                          | 2200VA   | 3300VA           |
| Rated AC Voltage                       | 220V, 230V, 240Vac   |                  |
| Rated AC Voltage Range                 | 180 - 280Vac   |                  |
| Grid Connection Type                   | L + N + PE   |                  |
| Max. AC Current                        | 9.5A   | 14.3A            |
| Grid Frequency                         | 50/60Hz  |                  |
| Grid Frequency Range                   | 45-55/55-65Hz  |                  |
| Power Factor (cosφ)                    | ±0.8 (adjustable)  |                  |
| Current THD                            | < 3%   |                  |
| AC Disconnection Type                  | -  |                  |
| <b>System Data</b>                     |  |                  |
| Topology                               | Transformerless  |                  |
| Max. Efficiency                        | 97.4%  | 97.6%            |
| Euro Efficiency                        | 96.8%  | 97.3%            |
| Consumption at Standby/Night           | < 6W/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                       | AC Type III  |                  |
| <b>Environment Data</b>                |  |                  |
| Ingress Protection                     | IP65   |                  |
| Cooling Method                         | Natural Convection   |                  |
| Operating Temperature                  | -25°C to +60°C   |                  |
| Ambient Humidity                       | 0 - 100%, Non-condensing   |                  |
| Altitude                               | 4000m  |                  |
| <b>Display and Communication</b>       |  |                  |
| Display                                | LED + APP (Bluetooth)  |                  |
| Communication                          | RS232(Standard) / Wi-Fi & 4G (Optional)  |                  |
| <b>Mechanical Data</b>                 |  |                  |
| Dimensions (W*H*D)                     | 285 * 336 * 125mm  |                  |
| Weight                                 | 8.8kg  |                  |
| DC Connection Type                     | MC4  |                  |
| AC Connection Type                     | Plug and play connector  |                  |
| <b>Safety</b>                          |  |                  |
| Certifications                         | EN 61000-6,EN/IEC 62109,IEC 61727,IEC 62116,IEC 60068, IEC 61683,EN 50549,CEI 0-21,RD 1699,UNE 217001,CNAS |                  |

# CPS SCA3~6KTL-SM/EU

Chint Power Single-phase Inverter  
High Return of the Whole Life Cycle



## Low Investment

Single-phase string series inverters products providing standard configuration DC switch and optional 4G/Wi-Fi/RS232 communication, which can match the requirements of different customers, support 10% rated overload and no-screen design, which can efficiently decrease initial investment of system.

## High Profits

High DC/AC ratio up to 1.5; Single-phase string inverters can provide 97.6% maximum efficiency, 97.3% Euro efficiency, 99.5% MPPT efficiency, fan-less topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

## Maintenance Warranty

String inverter can support remote monitoring, fault diagnosis and software upgrade, 7\*24H after-sales service can guarantee the maintenance of the Whole Life Cycle.

| Model Name                             | CPS SCA3KTL-SM/EU  | CPS SCA4KTL-SM/EU | CPS SCA5KTL-SM/EU | CPS SCA6KTL-SM/EU |
|--|--|-------------------|-------------------|-------------------|
| <b>DC Input</b>                        |  |                   |                   |                   |
| Max. DC Voltage                        | 600Vdc   |                   |                   |                   |
| MPPT Operating Voltage Range           | 70-580Vdc  |                   |                   |                   |
| Start Voltage                          | 90Vdc  |                   |                   |                   |
| Rated DC Voltage                       | 360Vdc   |                   |                   |                   |
| Number of MPPT                         | 2  |                   |                   |                   |
| Number of DC Connection Sets per MPPT  | 1  |                   |                   |                   |
| Max. input current per MPPT            | 13A/13A  |                   |                   |                   |
| Max. DC short-circuit current per MPPT | 15A  |                   |                   |                   |
| DC Disconnection Type                  | Integrated Switch  |                   |                   |                   |
| <b>AC Output</b>                       |  |                   |                   |                   |
| Rated AC Power                         | 3000W  | 4000W             | 5000W             | 6000W             |
| Max. AC Power                          | 3300VA   | 4400VA            | 5500VA            | 6600VA            |
| Rated AC Voltage                       | 220V, 230V, 240V   |                   |                   |                   |
| Rated AC Voltage Range                 | 180- 280V  |                   |                   |                   |
| Grid Connection Type                   | L + N + PE   |                   |                   |                   |
| Max. AC Current                        | 14.3A  | 19.1A             | 23.8A             | 28.6A             |
| Grid Frequency                         | 50/60Hz  |                   |                   |                   |
| Grid Frequency Range                   | 45-55/55-65Hz  |                   |                   |                   |
| Power Factor (cosφ)                    | ±0.8 (adjustable)  |                   |                   |                   |
| Current THD                            | < 3%   |                   |                   |                   |
| AC Disconnection Type                  | -  |                   |                   |                   |
| <b>System Data</b>                     |  |                   |                   |                   |
| Topology                               | Transformerless  |                   |                   |                   |
| Max. Efficiency                        | 97.6%  | 97.6%             | 97.8%             | 98.0%             |
| Euro Efficiency                        | 97.3%  | 97.3%             | 97.3%             | 97.4%             |
| Consumption at Standby/Night           | < 6W/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                       | AC Type III  |                   |                   |                   |
| <b>Environment Data</b>                |  |                   |                   |                   |
| Ingress Protection                     | IP65   |                   |                   |                   |
| Cooling Method                         | Natural Convection   |                   |                   |                   |
| Operating Temperature                  | -25°C to +60°C   |                   |                   |                   |
| Ambient Humidity                       | 0 - 100%, Non-condensing   |                   |                   |                   |
| Altitude                               | 4000m  |                   |                   |                   |
| <b>Display and Communication</b>       |  |                   |                   |                   |
| Display                                | LED + APP (Bluetooth)  |                   |                   |                   |
| Communication                          | RS232(Standard) / Wi-Fi & 4G (Optional)  |                   |                   |                   |
| <b>Mechanical Data</b>                 |  |                   |                   |                   |
| Dimensions (W*H*D)                     | 335 * 426 * 125mm  |                   |                   |                   |
| Weight                                 | 12.8kg   |                   |                   |                   |
| DC Connection Type                     | MC4  |                   |                   |                   |
| AC Connection Type                     | Plug and play connector  |                   |                   |                   |
| <b>Safety</b>                          |  |                   |                   |                   |
| Certifications                         | EN 61000-6,EN/IEC 62109,IEC 61727,IEC 62116,IEC 60068, IEC 61683,EN 50549,CEI 0-21,RD 1699,UNE 217001,CNAS |                   |                   |                   |

# CPS SCA6~15KTL-T/EU

Chint Power String Inverter  
High Return of the Whole Life Cycle



## Low Investment

Three-phase string series inverters products providing standard configuration DC switch, optional 4G/Wi-Fi/RS485 communication, which can match the requirements of different customers, support 10% rated overload which can efficiently decrease initial investment of system.

## High Profits

High DC/AC ratio up to 1.5; Three-phase string inverters can provide 98.0% maximum efficiency, 97.6% Euro efficiency, 99.5% MPPT efficiency, fan-less topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

## Maintenance Warranty

String inverter can support remote monitoring, fault diagnosis and software upgrade, 7\*24H after-sales service can guarantee the maintenance of the Whole Life Cycle.

| Model Name                             | CPS SCA6KTL-T/EU  | CPS SCA10KTL-T/EU | CPS SCA15KTL-T/EU |
|--|---|-------------------|-------------------|
| <b>DC Input</b>                        |   |                   |                   |
| Max. DC Voltage                        | 1000Vdc   |                   |                   |
| MPPT Operating Voltage Range           | 160-950Vdc  |                   |                   |
| Start Voltage                          | 200Vdc  |                   |                   |
| Rated DC Voltage                       | 620Vdc  |                   |                   |
| Number of MPPT                         | 2   |                   |                   |
| Number of DC Connection Sets per MPPT  | 1 / 1   | 2 / 1             |                   |
| Max. input current per MPPT            | 13A / 13A   | 26A / 13A         |                   |
| Max. DC short-circuit current per MPPT | 15A   | 30A / 15A         |                   |
| DC Disconnection Type                  | Integrated Switch   |                   |                   |
| <b>AC Output</b>                       |   |                   |                   |
| Rated AC Power                         | 6000W   | 10000W            | 15000W            |
| Max. AC Power                          | 6600VA  | 11000VA           | 16500VA           |
| Rated AC Voltage                       | 380V, 400V  |                   |                   |
| Rated AC Voltage Range                 | 277- 520V   |                   |                   |
| Grid Connection Type                   | 3Φ / N / PE   |                   |                   |
| Max. AC Current                        | 10A   | 16A               | 23A               |
| Grid Frequency                         | 50/60Hz   |                   |                   |
| Grid Frequency Range                   | 45-55/55-65Hz   |                   |                   |
| Power Factor (cosφ)                    | ±0.8 (adjustable)   |                   |                   |
| Current THD                            | < 3%  |                   |                   |
| AC Disconnection Type                  | -   |                   |                   |
| <b>System Data</b>                     |   |                   |                   |
| Topology                               | Transformerless   |                   |                   |
| Max. Efficiency                        | 98.0%   | 98.1%             | 98.2%             |
| Euro Efficiency                        | 97.6%   | 97.8%             | 97.8%             |
| Consumption at Standby/Night           | <25W/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                       | AC Type III   |                   |                   |
| <b>Environment Data</b>                |   |                   |                   |
| Ingress Protection                     | IP65  |                   |                   |
| Cooling Method                         | Natural Convection  |                   |                   |
| Operating Temperature                  | -25°C to +60°C  |                   |                   |
| Ambient Humidity                       | 0 - 100%, Non-condensing  |                   |                   |
| Altitude                               | 4000m   |                   |                   |
| <b>Display and Communication</b>       |   |                   |                   |
| Display                                | LED + APP (Bluetooth)   |                   |                   |
| Communication                          | RS485(Standard) / Wi-Fi & 4G (Optional)   |                   |                   |
| <b>Mechanical Data</b>                 |   |                   |                   |
| Dimensions (W*H*D)                     | 380 * 480 * 176mm   |                   |                   |
| Weight                                 | 18.9kg  | 21.8kg            |                   |
| DC Connection Type                     | MC4   |                   |                   |
| AC Connection Type                     | OT/DT Terminal  |                   |                   |
| <b>Safety</b>                          |   |                   |                   |
| Certifications                         | EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, EN 50549, CEI 0-21, UNE 217001, RD 1699 |                   |                   |



# CPS SCA20~30KTL-T/EU

Chint Power String Inverter  
High Return of the Whole Life Cycle



### Low Investment

Three-phase string series inverters products providing standard configuration DC switch, integrated DC combiner box, optional 4G/Wi-Fi/RS485 communication, which can match the requirements of different customers, support 10% rated overload which can efficiently decrease initial investment of system.

### High Profits

High DC/AC ratio up to 1.5; Three-phase string inverters can provide 98.2% maximum efficiency, 97.7% Euro efficiency, 99.5% MPPT efficiency, fan-less topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

### Maintenance Warranty

String inverter can support remote monitoring, fault diagnosis and software upgrade, 7\*24H after-sales service can guarantee the maintenance of the Whole Life Cycle.

| Model Name                             | CPS SCA20KTL-T/EU   | CPS SCA25KTL-T/EU                       | CPS SCA30KTL-T1/EU |
|--|---|---|--------------------|
| <b>DC Input</b>                        |   |   |                    |
| Max. DC Voltage                        |   | 1000Vdc                                 |                    |
| MPPT Operating Voltage Range           |   | 180-950Vdc                              |                    |
| Start Voltage                          |   | 250Vdc                                  |                    |
| Rated DC Voltage                       |   | 620Vdc                                  |                    |
| Number of MPPT                         | 2   |   | 2                  |
| Number of DC Connection Sets per MPPT  | 2   |   | 3                  |
| Max. input current per MPPT            | 27A/27A   |   | 40.5A/40.5A        |
| Max. DC short-circuit current per MPPT |   | 45A                                     |                    |
| String Fuse                            | N/A   |   | 15A                |
| DC Disconnection Type                  |   | Integrated Switch                       |                    |
| <b>AC Output</b>                       |   |   |                    |
| Rated AC Power                         | 20kW  | 25kW                                    | 30kW               |
| Max. AC Power                          | 22kVA   | 27.5kVA                                 | 33kVA              |
| Rated AC Voltage                       |   | 380V , 400V                             |                    |
| Rated AC Voltage Range                 |   | 277 - 520V                              |                    |
| Grid Connection Type                   |   | 3Φ / N / PE                             |                    |
| Max. AC Current                        | 33.5A   | 40A                                     | 48A                |
| Grid Frequency                         |   | 50/60Hz                                 |                    |
| Grid Frequency Range                   |   | 45-55/55-65Hz                           |                    |
| Power Factor (cosφ)                    |   | ±0.8(adjustable)                        |                    |
| Current THD                            |   | < 3%                                    |                    |
| AC Disconnection Type                  |   | -                                       |                    |
| <b>System Data</b>                     |   |   |                    |
| Topology                               |   | Transformerless                         |                    |
| Max. Efficiency                        | 98.2%   | 98.2%                                   | 98.2%              |
| Euro Efficiency                        | 97.7%   | 97.7%                                   | 97.7%              |
| Consumption at Standby/Night           |   | <25W/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                 |                    |
| <b>Environment Data</b>                |   |   |                    |
| Ingress Protection                     |   | IP65                                    |                    |
| Cooling Method                         | Natural Convection  |   | Cooling Fans       |
| Operating Temperature                  |   | -25°C to +60°C                          |                    |
| Ambient Humidity                       |   | 0 - 100%, Non-condensing                |                    |
| Altitude                               |   | 4000m                                   |                    |
| <b>Display and Communication</b>       |   |   |                    |
| Display                                |   | LED + APP(Bluetooth)                    |                    |
| Communication                          |   | RS485(Standard) / Wi-Fi & 4G (Optional) |                    |
| <b>Mechanical Data</b>                 |   |   |                    |
| Dimensions (W*H*D)                     |   | 555 * 446 * 270mm                       |                    |
| Weight                                 | 37kg  |   | 40kg               |
| DC Connection Type                     |   | MC4                                     |                    |
| AC Connection Type                     |   | OT/DT Terminal                          |                    |
| <b>Safety</b>                          |   |   |                    |
| Certifications                         | EN 61000-6,EN/IEC 62109,IEC 61727,IEC 62116,IEC 60068,IEC 61683, EN 50549,CEI 0-21,UNE 217001,RD 1699 |   |                    |

# CPS SCA110KTL-DO/EU

Chint Power String Inverter  
High Return of the Whole Life Cycle



## Low Investment

Three-phase string series inverters products providing standard configuration DC switch, integrated DC combiner box, optional Wi-Fi/4G/PLC/RS485 communication, which can match the requirements of different customers, support 10% rated overload which can efficiently decrease initial investment of system.

## High Profits

High DC/AC ratio up to 1.5; Three-phase string inverters can provide 99.4% maximum efficiency, 98.0% Euro efficiency, 99.5% MPPT efficiency, advanced topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

## Maintenance Warranty

String inverter can support remote monitoring, fault diagnosis and software upgrade, 7\*24H after-sales service can guarantee the maintenance of the Whole Life Cycle.

| Model Name                             | CPS SCA110KTL-DO/EU  | CPS SCA110KTL-DO/EU2 |
|--|--|----------------------|
| <b>DC Input</b>                        |  |                      |
| Max. DC Voltage                        | 1100Vdc  |                      |
| MPPT Operating Voltage Range           | 200-1000Vdc  |                      |
| Start Voltage/Power                    | 300Vdc/100W  |                      |
| Rated DC Voltage                       | 615Vdc   |                      |
| Number of MPPT                         | 9  | 12                   |
| Number of DC Connection Sets per MPPT  | 2  | 1                    |
| Max. DC input current                  | 26A*9  | 26A*12               |
| Max. DC short-circuit current per MPPT | 40A  |                      |
| DC Disconnection Type                  | Integrated Switch  |                      |
| <b>AC Output</b>                       |  |                      |
| Rated AC Power                         | 100kW  |                      |
| Max. AC Power                          | 110kVA   |                      |
| Rated AC Voltage                       | 400Vac   |                      |
| AC Voltage Range*                      | 322~528Vac   |                      |
| Grid Connection Type                   | 3Φ / PE  |                      |
| Max. AC Current                        | 160A   |                      |
| Rated Frequency                        | 50/60Hz  |                      |
| Grid Frequency Range*                  | 47-53/57-63Hz  |                      |
| Power Factor (cosφ)                    | ±0.8 (adjustable)  |                      |
| Current THD                            | < 3%   |                      |
| AC Disconnection Type                  | -  |                      |
| <b>System Data</b>                     |  |                      |
| Topology                               | Transformerless  |                      |
| Max. Efficiency                        | 98.8%  |                      |
| Euro Efficiency                        | 98.4%  |                      |
| Consumption at Standby/Night           | < 30W / < 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                                    |                      |
| <b>Environment Data</b>                |  |                      |
| Ingress Protection                     | IP66   |                      |
| Cooling Method                         | Cooling Fans   |                      |
| Operating Temperature Range            | -30°C - +60°C  |                      |
| Ambient Humidity                       | 0 - 100%   |                      |
| Altitude                               | 4000m  |                      |
| <b>Display and Communication</b>       |  |                      |
| Display                                | LED+ APP   |                      |
| Communication                          | RS485(Standard) / Wi-Fi & 4G / PLC (Optional)              |                      |
| <b>Mechanical Data</b>                 |  |                      |
| Dimensions (W*H*D)                     | 1050 * 660* 340mm  |                      |
| Weight                                 | 86kg   |                      |
| DC Connection Type                     | MC4  |                      |
| AC Connection Type                     | OT/DT Terminal   |                      |
| <b>Safety</b>                          |  |                      |
| Certifications                         | IEC61000-6,IEC/EN 62109,IEC61727/62116/61683/60068,EN50549 |                      |

\* "Output Voltage Range" and "Output Frequency Range" may be differ according to specific grid codes.

# CPS SCH275KTL-DO/EU

Chint Power 1500V String Inverter  
High Return of the Whole Life Cycle



## Low Investment

Three-phase string series inverters products providing standard configuration DC switch, integrated DC combiner box, standard class II lightning protection, optional PLC/RS485 communication, which can match the requirements of different customers.

## High Profits

High DC/AC ratio up to 1.5; Three-phase string inverters can provide 99.0% maximum efficiency, 98.5% Euro efficiency, 99.5% MPPT efficiency, advanced topology design and international known device options, which can guarantee the profits of the Whole Life Cycle.

## Maintenance Warranty

String inverter can support remote monitoring, fault diagnosis and software upgrade, 7\*24H after-sales service can guarantee the maintenance of the Whole Life Cycle.

| Model Name                             | CPS SCH275KTL-DO/EU  | CPS SCH275KTL-DO/EU2 |
|--|--|----------------------|
| <b>DC Input</b>                        |  |                      |
| Max. DC Voltage                        | 1500Vdc  |                      |
| MPPT Operating Voltage Range           | 500-1450Vdc  |                      |
| Start Voltage/Power                    | 550Vdc / 500W  |                      |
| Rated DC Voltage                       | 1190Vdc  |                      |
| Number of MPPT                         | 12   | 6                    |
| Number of DC Connection Sets per MPPT  | 2  | 3                    |
| Max. DC input current                  | 30A*12   | 60A*6                |
| Max. DC short-circuit current per MPPT | 50A  | 90A                  |
| DC Disconnection Type                  | Integrated Switch  |                      |
| <b>AC Output</b>                       |  |                      |
| Rated AC Power                         | 275kW  |                      |
| Max. AC Power                          | 275kVA   |                      |
| Rated AC Voltage                       | 800V   |                      |
| Rated AC Voltage Range                 | 680 - 880Vac   |                      |
| Grid Connection Type                   | 3Φ / PE  |                      |
| Max. AC Current                        | 198.5A   |                      |
| Grid Frequency                         | 50/60Hz  |                      |
| Grid Frequency Range                   | 47-53/57-63Hz  |                      |
| Power Factor (cosφ)                    | ±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 Standby/Night           | <30W / <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  |                      |
| <b>Environment Data</b>                |  |                      |
| Ingress Protection                     | IP66   |                      |
| Cooling Method                         | Cooling Fans   |                      |
| Operating Temperature                  | -30°C - +60°C  |                      |
| Ambient Humidity                       | 0 - 100%   |                      |
| Altitude                               | 4000m  |                      |
| <b>Display and Communication</b>       |  |                      |
| Display                                | LED+ APP   |                      |
| Communication                          | RS485(Standard) / PLC(Optional)  |                      |
| <b>Mechanical Data</b>                 |  |                      |
| Dimensions (W*H*D)                     | 1100 * 680 * 337mm   |                      |
| Weight                                 | 105kg  |                      |
| DC Connection Type                     | MC4  |                      |
| AC Connection Type                     | OT/DT Terminal   |                      |
| <b>Safety</b>                          |  |                      |
| Certifications                         | IEC/EN 61000-6, IEC/EN 62109, IEC 61727/62116/60068/61683, EN 50530, NBR 16149/16150 |                      |

\* "Output Voltage Range" and "Output Frequency Range" may be differ according to specific grid codes.

# 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>             |   |
| Available Languages         | 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>               |   |
| Website                     | 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
- CO<sub>2</sub> savings, weather and sensor data displayed
- Local mode enables direct access to system data via WiFi



## Wi-Fi Communication Module



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

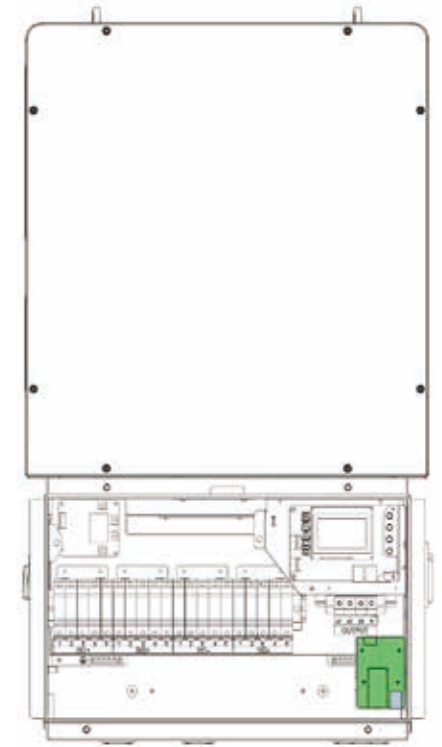
By connecting with inverter through RS232/RS485 interface (DB9 port), the WiFi Module can collect information of PV systems from inverter. With the integrated WiFi function, the WiFi Module can connect to router and transmit data to the web server, realizing remote monitoring for users.

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                       |
| WLAN                         | 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 Flex Gateway



The CPS Flex Gateway is a new monitoring and controls solution for the CPS 25 to 275kW inverter line.

The gateway acts as a Modbus master data logger and gateway solution for monitoring and controlling commercial and utility scale inverter applications. This flexible monitoring solution enables three parallel outbound communication options: (1) local pass-through Modbus data to 3rd party solutions, (2) Ethernet based communications to the CPS portal and (3) a programmable Ethernet based connection to a location chosen by the customer.

The Flex Gateway enables remote F/W upload by the CPS Service team, enabling efficient field service solutions for our customers. The remote upload function is facilitated by the CPS Monitoring Portal.

### Key Features

- Installed in a single inverter wire-box: no power or extra equipment required
- Modbus communications input (up to 32 inverters per card) – Modbus TCP/IP or RS485
- Complete controls functionality via Modbus (per inverter or broadcast command)
- Flexible outbound communications
- Programmable IP address for customer direct data (json format)
- Remote F/W solution
- Pass-through data for local 3rd party solutions (Modbus RS485)
- Low cost

|   |  |
|---|--|
| Model Name                              | Flex Gateway   |
| <b>Communications</b>                   |  |
| Inverter interface                      | RS485  |
| User interface                          | Standard: RS485, Ethernet, USB   |
| Inverter connections per card           | 32   |
| Protocol                                | HTTPS, DHCP, DNS Resolution, Modbus TCP  |
| <b>Monitoring</b>                       |  |
| Web connections                         | IP addresses: CPS + Programmable location  |
| Local monitoring                        | Wired connection to the Data logger (integrated web GUI)   |
| Remote monitoring                       | CPS platform or 3rd party platform   |
| <b>Data logging Specifications</b>      |  |
| Data sampling rate                      | Programmable data sampling (1 to 15 minute sample rate)  |
| Local data storage                      | Log data for 30 days based on 15 minute intervals  |
| Upgradeability                          | Remotely via CPS platform or 3rd party platform / locally via USB  |
| Data parameters                         | Modbus ID, Inverter S/N's, Model, TYield/DYield(kWh), RunT(min), Mode, Upv(V), Ipv(A), Pac(kW), PF, Freq(Hz), Uabc(V), Iabc(A) |
| <b>Advanced Functions</b>               |  |
| Remote O&M operations                   | Inverter parameter settings / inverter firmware upgrade  |
| Controls Capability                     | Capable of control commands via Modbus (ie; PF control, Active power curtailment, Remote reset)                                |
| <b>Power Supply</b>                     |  |
| DC power supply output                  | ~ 2W   |
| <b>Environmental Parameters</b>         |  |
| Ambient temperature range               | -30 to +85°C   |
| Environmental protection                | Installed in NEMA 4X wire-box  |
| Relative humidity                       | <85% Non-condensing  |
| <b>Mechanical Parameters (per unit)</b> |  |
| Dimensions (H x W x D)                  | 86mm * 69mm * 16mm   |
| Weight                                  | 50g  |



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