



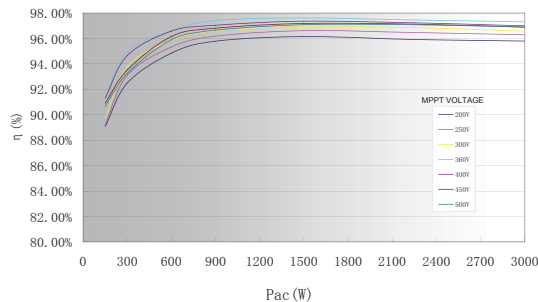
Single Phase Grid-tied PV Inverter

Chint Power Systems has been long dedicated to the research and development of PV inverters with a reputation from the domestic to the abroad market. Now CPS launches the new generation of SCE series PV inverters through our continuous efforts!

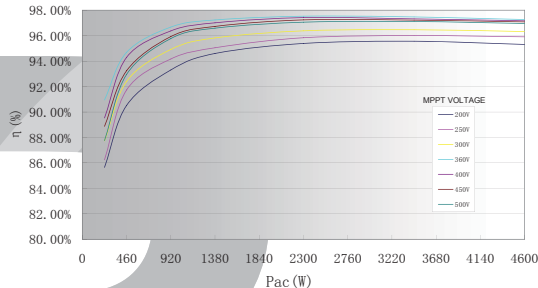
SCE series PV inverters can be well applied to various residential and commercial rooftop PV systems. With the features of concise design and high reliability as well as the former generation, SCE series PV inverters have an improving performance on the conversion efficiency of products up to 97.5%. The internal design of DC Switch and RS485 communication for SCE series may provide a safe and flexible product for customers.

Efficiency Curve

CPS SCE3KTL-O



CPS SCE4.6KTL-O



High Efficiency

- High efficiency up to 97.5%
- $\geq 99.9\%$ MPPT efficiency
- Transformerless design

High Reliability

- Design for reliability and derating guide lines
- Comprehensive protection functions
- Real-time monitoring
- Island protection

Broad Adaptability

- Broad MPPT range
- Multi-language
- DC switch embedded
- Easy operation



G83 G59 VDE-AR-N 4105
(In application process) VDE0126-1-1/A1

Technical Data

	CPS SCE1.5KTL	CPS SCE2KTL	CPS SCE3KTL-O	CPS SCE4KTL-O	CPS SCE4.6KTL-O
DC Input					
Max. DC Voltage	550Vdc	550Vdc	600Vdc	600Vdc	600Vdc
MPPT Voltage Range	175-500Vdc	200-500Vdc	200-500Vdc	225-500Vdc	200-500Vdc
Max. DC Power	1700W	2300W	3450W	4600W	5250W
Max. Input Current	9.1Adc	11Adc	17.5Adc	20Adc	2×17Adc
MPP Tracker	1	1	1	1	2
AC Output					
Output Power	1500W	2000W	3000W	4000W	4600W
Grid Voltage [#]	184-264.5Vac	184-264.5Vac	184-264.5Vac	184-264.5Vac	184-264.5Vac
Nominal Grid Frequency	50Hz	50Hz	50Hz	50Hz	50Hz
Current THD	<3%	<3%	<3%	<3%	<3%
Power Factor	0.99 (adj. ±0.9)				
AC Connection	Single phase				
System					
Max. Efficiency	96.5%	96.8%	97.2%	97.5%	97.5%
Euro Efficiency	95.2%	95.8%	96.5%	97.0%	97.0%
Protection Degree	IP43	IP43	IP65	IP65	Chassis:IP65;Fan:IP55
Stand-by Consumption	<7W	<7W	<7W	<7W	<10W
Operating Temperature Range	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C	-20°C - +60°C
Humidity	0-95%, non-condensing	0-95%, non-condensing	100%, condensing	100%, condensing	100%, condensing
Display and Communication					
Display	Character 16 words, 2 lines				
Communication	RS485				
Mechanical Data					
W×H×D (mm)	355×365×151	355×365×151	427×451×154	427×451×154	434×597×202
Weight (kg)	12.1	12.9	15	16.5	30.9

[#] Note: "Grid Voltage" may vary depending on specific country grid standard.

Please follow local regulatory electrical codes for installation. If in doubt, consult appropriate licensed contractor.

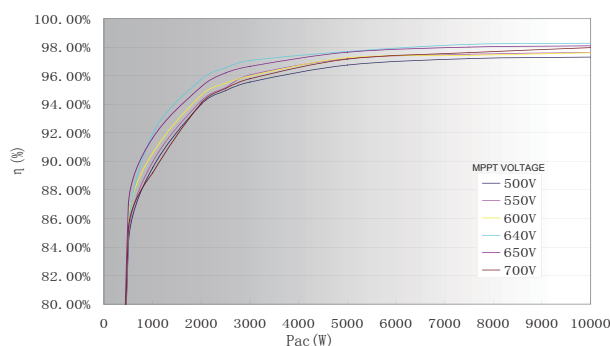
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Three Phase Grid-tied PV Inverter

Chint Power Systems has been long dedicated to the research and development of PV inverters with a reputation from the domestic to the abroad. Now CPS presents the customers with the new generation product: CPS SCA10KTL-DO PV inverter!

The inverter can be well applied to various residential and power station PV systems. With the features of concise design and high reliability as well as the former generation, it has an improving performance on the conversion efficiency of products up to 98.2%. Besides, the internal DC and AC Switches also ensure the safety and reliability of the product.

Efficiency Curve



High Efficiency

- Max. efficiency of 98.2%
- Euro efficiency of 97.6%
- $\geq 99.9\%$ MPPT efficiency
- Space vector PWM

High Reliability

- Integrated DC and AC switch
- GFCI embedded
- Comprehensive protection functions
- Design for reliability



G83 VDE-AR-N 4105
VDE0126-1-1/A1

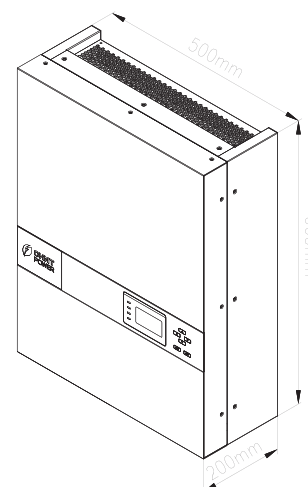
(In application process)



CPS SCA10KTL-DO

Broad Adaptability

- Broad MPPT range
- 2 MPP Trackers
- Multiple communication interface
- IP65 protection degree, outdoor application
- Multi-language



Dimensions

Technical Data

DC Input	
Max. DC Voltage	1000Vdc
Working Voltage Range	250-800Vdc
MPPT Voltage Range	320-800Vdc
Max. DC Power	11000W
Max. Input Current	34Adc
MPP Tracker	2
DC Switch	Integrated
AC Output	
Output Power	10000W
Grid Voltage #	400Vac (320-460Vac)
Nominal Grid Frequency	50Hz
Current THD	<3%
Power Factor	0.99 (adj. ±0.9)
AC Connection	3 Phase
AC Switch	Integrated
System	
Max. Efficiency	98.2%
Euro Efficiency	97.6%
Protection Degree	IP65
Stand-by / Night Consumption	<7W / 0.3W
Operating Temperature Range	-25°C - +60°C
Humidity	0-95%, non-condensing
Display and Communication	
Display	LCD
Communication	Standard RS-485, Ethernet/Wifi (optional)
Mechanical Data	
W×H×D (mm)	500×660×200
Weight (kg)	40

Note: "The Grid Voltage" may vary depending on specific country grid standard.

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1.5-10kW Grid-tied PV Inverter

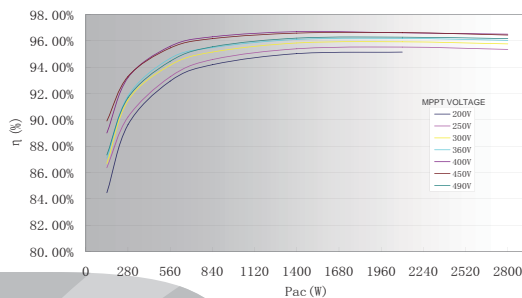


CPS SC series grid-tied PV inverters can be flexibly utilized in different types of residential rooftops, commercial rooftops and some utility systems. 96% and above high efficiency benefits customers with long-term electricity generation return.

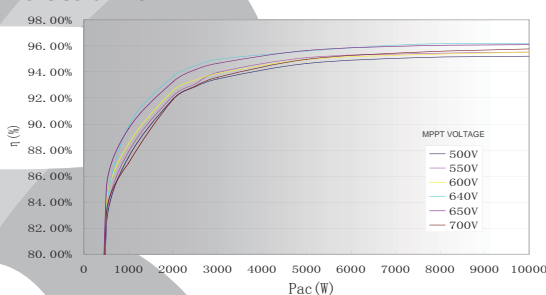
Convection, no fan required (except SC10KTL-O) design, comprehensive protection functions and advanced thermal design enable the whole system high reliability. The friendly interface and plug & play features make the installation and maintenance easy and fast.

Efficiency Curve

CPS SC2.8KTL



CPS SC10KTL-O



Robust

- Convection, no fan required (except SC10KTL-O)
- Internal GFCI
- Comprehensive protection functions

Flexible

- Transformerless design
- Plug & Play
- 1 to 3 MPP Trackers
- Easy operation
- Broad MPPT range

Smart

- Local / Remote monitoring access
- Integrated datalogger (SC10KTL-O)
- Multi-language



reddot design award
honourable mention 2011



Technical Data

	CPS SC1.5KTL	CPS SC2KTL	CPS SC2.8KTL	CPS SC4KTL	CPS SC4KTL-O	CPS SC4.6KTL-O	CPS SC10KTL-O
DC Input							
Max. DC Voltage	450Vdc	500Vdc	500Vdc	500Vdc	500Vdc	750Vdc	800Vdc
MPPT Voltage Range	150-405Vdc	150-450Vdc	150-450Vdc	150-450Vdc	150-450Vdc	125-700Vdc	320-720Vdc
Max. DC Power	1760W	2320W	3180W	4630W	4630W	5300W(3800W/Tracker)	11500W(5500W/Tracker)
Max. Input Current	8.9Adc	10Adc	13Adc	20Adc	20Adc	8.5Adc/Tracker	13Adc/Tracker
MPP Tracker	1	1	1	1	1	3	3
AC Output							
Output Power	1500W	2000W	2800W	4000W	4000W	4600W	10000W
Grid Voltage [#]	184-264.5Vac	184-264.5Vac	184-264.5Vac	184-264.5Vac	184-264.5Vac	196-253Vac	400V×3, -15%+10%
Nominal Grid Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Current THD	<3%	<3%	<3%	<3%	3%	3%	3%
Power Factor	~1	~1	~1	~1	~1	~1	~1
AC Connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Three phase
System							
Max. Efficiency	>95%	>96%	>96%	>96%	>96%	>96%	>96.5%
Euro Efficiency	>94%	>95%	>95%	>95%	>95%	>94.5%	>95%
Protection Degree	IP43	IP43	IP43	IP43	IP65	IP65	IP65
Stand-by Consumption	~7W	~7W	~7W	~7W	~7W	~9W	~30W
Operating Temp. Range	-20°C - +55°C						
Humidity	0-95%, non-condensing					0-95%, Force air cooling, variable fan speed	
Display and Communication							
Display	LCD/1 Line, 16Char.					LCD/2 Line, 32Char.	128×64Graphic Display
Communication	Standard RS232, Optional RS485						
Mechanical Data							
W×H×D (mm)	320×271×126	355×304×125	355×304×135	429×369×126	440×390×137	436×535×133	453×583×155
Weight (kg)	10	13	13.5	18	20	28	37

[#]Note: "The Grid Voltage" may vary depending on specific country grid standard.

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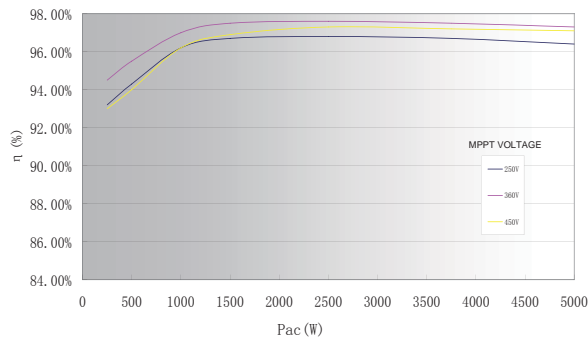
4/5/6/7kW Grid-tied PV Inverter for North America

The CPS SCE series PV inverters are designed for the North America market and are compliant with UL and CSA standards. With advanced transformerless technology, the products reach a 97.5% maximum efficiency, providing competitive, long-term electricity generation benefits.

The enclosures are NEMA 3R rated for general outdoor application. Designed for high reliability and easy installation, CPS SCE series are the ideal choice for residential rooftop applications.

Efficiency Curve

CPS SCE5KTL-O/US @ 240Vac



■ High Efficiency

- Max. efficiency of 97.5%, CEC efficiency of 97%
- High speed and precise MPPT algorithm

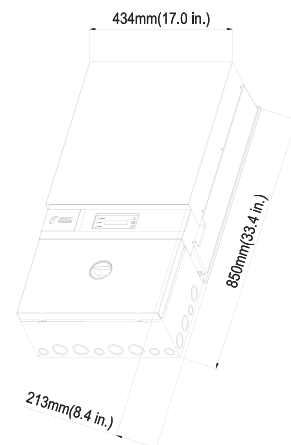
■ High Reliability

- Design for reliability
- Comprehensive protection functions
- GFCI embedded
- Comply with UL1741(2010), CSA C22.2 No.107.1-01, IEEE1547(2003), IEEE1547.1(2005)



■ Broad Adaptability

- Wide MPPT range enables flexible stringing
- NEMA 3R, outdoor application
- Quick installation and easy maintenance
- Lead-free, RoHS complied
- Integrated DC and AC disconnect
- Internal DC and AC fuse



Dimensions


 Intertek
 4004522
 Conforms to UL Std. 1741
 Cert.to CSA Std.C22.2 No.107.1-01

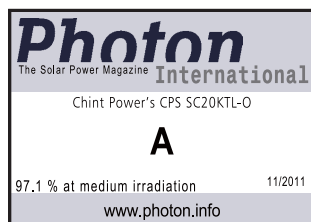
 This device complies with
 part 15 of the FCC Rules

Technical Data

	CPS SCE4KTL-O/US	CPS SCE5KTL-O/US	CPS SCE6KTL-O/US	CPS SCE7KTL-O/US
DC Input				
Max. DC Voltage	600Vdc	600Vdc	600Vdc	600Vdc
MPPT Voltage Range	105-500Vdc	105-500Vdc	105-500Vdc	105-500Vdc
Max. Input Current	19Adc	26Adc	32Adc	37Adc
Max. Number of Input Circuits	4	4	4	4
AC Output				
Output Power @240Vac & 277Vac	4000W	5000W	6000W	7000W
Output Power @208Vac	3800W	4600W	6000W	7000W
Operational Voltage Range / Firmware Setting Value	186-225V for 208V system 215-260V for 240V system 248-300V for 277V system			
Nominal Grid Frequency	60Hz	60Hz	60Hz	60Hz
Current THD	3%	3%	3%	3%
Power Factor	>0.99	>0.99	>0.99	>0.99
AC Connection	Single phase	Single phase	Single phase	Single phase
System				
Max. Efficiency	97.5%	97.5%	97.5%	97.5%
CEC Efficiency	97%	97%	97%	97%
Ingress Protection	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R
Stand-by / Night Consumption	<7W / <0.2W	<7W / <0.2W	<7W / <0.2W	<7W / <0.2W
Operating Temperature Range	-25°C - +50°C / -13°F - +122°F			
Humidity	0-95%, non-condensing	0-95%, non-condensing	0-95%, non-condensing	0-95%, non-condensing
Communication				
Communication	Standard RS485			
Mechanical Data				
W×H×D	434×850×213 (mm) / 17×33.4×8.4 (in)			
Weight	39/86 (kg/lb)	41/90.4 (kg/lb)	46/101.4 (kg/lb)	46/101.4 (kg/lb)
Warranty				
Standard	5 years			
Option	Up to 20 years			

Please follow local regulatory electrical codes for installation. If in doubt, consult appropriate licensed contractor.

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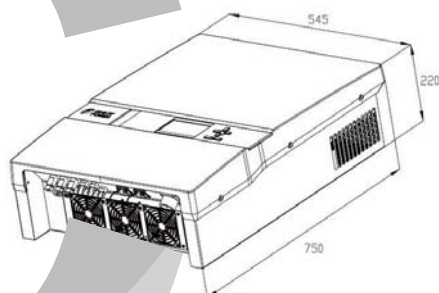
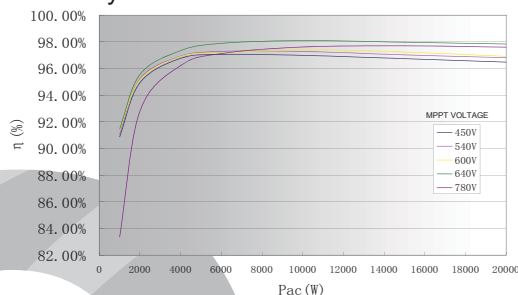


20kW Grid-tied PV Inverter

CPS SC20KTL-O grid-tied PV inverter can be flexibly utilized in different types of commercial rooftops and utility applications. 3-level technology and parallel switched MOSFET with IGBT and bypass strategy adopted minimize power loss to achieve overall load high efficiency.

CPS SC20KTL-O shapes in small size, light weight and high power density. Multi flexible mounting modes make installation and maintenance easy and quick. IP65 protection degree allows broad outdoor applications to save indoor installation space and cables. Enhanced DSP control, comprehensive protection functions and advanced thermal design enable the whole system with high reliability.

Efficiency Curve



Dimensions (mm)

■ High Efficiency

- Max. efficiency of 98.1%
- ≥99.9% MPPT efficiency
- 3-level technology and enhanced control mechanism to achieve overall load efficiency

■ High Reliability

- Design for reliability and derating guidelines
- Comprehensive protection functions
- Enhanced DSP system
- Advanced thermal design, fan speed control
- Island protection
- Ground-fault circuit & Interrupters input insulation resistance detection
- Double MCU realize multiple protection

■ Broad Adaptability

- IP65 protection degree, outdoor application
- Multi mounting modes, easy and quick installation
- High altitude application
- Reactive power adjusting, active power derating (Optional)



RD1663 G59 ENEL C10/11
VDE-AR-N 4105
VDE0126-1-1/A1

Technical Data

	CPS SC20KTL-O	CPS SC20KTL-DO
DC Input		
Max. DC Voltage*	850Vdc	
Working Voltage Range	430-800Vdc	
MPPT Voltage Range (Full Power)	500-800Vdc	
Max. DC Power	22kWp	2×11kWp
Max. Input Current / Per String	42A / 14A	2×21A / 14A
Max. Number of Strings	5	4
MPP Tracker	1	2
AC Output		
Output Power	20kW	
Nominal Output Voltage	400Vac, 3 phase	
Grid Voltage [#]	320-418Vac	
Nominal Grid Frequency	50/60Hz	
Current THD	<2%	
Power Factor	~1	
System		
Max. Efficiency	98.1%	
Euro Efficiency	97.5%	
CEC Efficiency	97.8%	
Protection Degree	IP65	
Stand-by Consumption	<20W	
Operating Temperature Range	-20°C - +65°C	
Cooling	Forced cooling / RPM regulated fan	
Humidity	0-95%, non-condensing	
Altitude	4000m	
DC Switch Embedded	NO	YES
Display and Communication		
Display	LCD	
Communication	RS485	
Mechanical Data		
W×H×D (mm)	545×750×220	
Weight (kg)	50	

*Note: Stresses beyond those listed under “Max. DC Voltage” may cause permanent damage to the device.

[#]Note: “The Grid Voltage” may vary depending on specific country grid standard.

Installation

- Wall mounted
- Bracket mounted
- Parallel bracket mounted

Please follow local regulatory electrical codes for installation. If in doubt, consult appropriate licensed contractor.

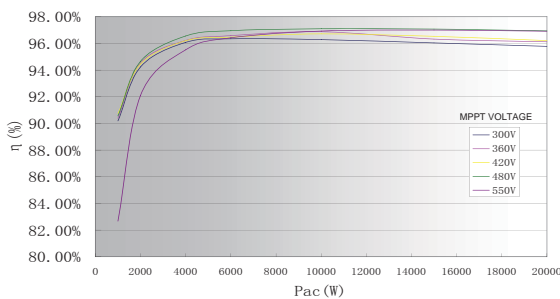
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20kW Grid-tied PV Inverter for North America

The CPS SC20KTL-DO/US-480 grid-tied PV inverter is a transformerless, three phase product designed for the North America market in compliance with UL and CSA standards. Patented 3-level control algorithm and thermal design provide 97.3% maximum efficiency.

CPS SC20KTL-DO/US-480 features small size, light weight and high power density. Multi flexible mounting modes make installation and maintenance easy and quick. The enclosure of the inverter is rated NEMA 3R (IP65) for general purpose outdoor applications. Enhanced DSP control, comprehensive protection functions and advanced thermal design enable a high reliability product with optional warranties up to 20 years.

Efficiency Curve



High Efficiency

- Maximum efficiency of 97.3%, CEC efficiency of 96.5%
- 3-level technology and enhanced control mechanism to achieve high efficiency over wide load range
- High speed and precise MPPT algorithm
- 2 MPP trackers to achieve higher system efficiency
- Transformerless design

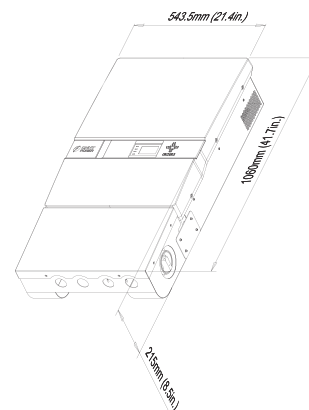
High Reliability

- Design for reliability
- Comprehensive protection functions
- Enhanced DSP system
- Advanced thermal design, with variable speed fans
- Anti-Islanding protection
- Ground-fault detection and interruption circuit
- Redundant controller for system protection



Broad Adaptability

- NEMA 3R (IP65), outdoor application
- Multi mounting modes, quick installation and easy maintenance
- High altitude application
- Integrated DC (+, -) and AC disconnect
- Wide MPPT range enables flexible stringing
- Light weight, compact design for commercial rooftops



Dimensions



Conforms to UL Std. 1741
Cert. to CSA Std. C22.2 No. 107.1-01



This device complies with
part 15 of the FCC Rules

Technical Data

DC Input	
Max. DC Voltage	600Vdc
Working Voltage Range	260-580Vdc
MPPT Voltage Range (Full Power)	300-550Vdc
Max. Input Current	2×35A
MPP Tracker	2
Max. Number of Input Circuits	2×4 (adjustable)
DC Switch	Integrated
AC Output	
Output Power	20kW
Nominal Output Voltage	480Vac, 3 phase
Grid Voltage	422-528Vac
Nominal Grid Frequency	60Hz
Current THD	<3%
Power Factor	>0.99
AC Switch	Integrated
System	
Max. Efficiency	97.3%
CEC Efficiency	96.5%
Ingress Protection	NEMA 3R (IP65)
Stand-by / Night Consumption	<20W / <2W
Operating Temperature Range	-20°C - +60°C / -4°F - +140°F
Cooling	Variable speed cooling fans
Humidity	0-95%, non-condensing
Altitude	2000m (derating from 1500m)
Display and Communication	
Display	LCD
Communication	RS485, RS232, Ethernet (optional)
Mechanical Data	
W×H×D	543×1060×215 (mm) / 21.4×41.7×8.5 (in)
Weight	63/132.3 (kg/lb)
Certificates	
Standard & Codes	UL1741, CSA-C22.2 NO.107.1-01, IEEE1547, FCC part15
Warranty	
Standard	5 years
Option	Up to 20 years

Installation

- Wall mounted
- Bracket mounted

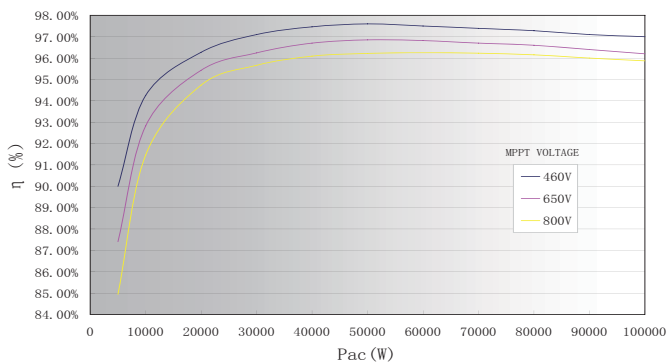
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100kW Grid-tied PV Inverter

CPS SC100KT Grid-tied PV inverter can be flexibly utilized in different types of commercial rooftops and utility applications, with output transformer isolation. Low loss magnetic materials, advanced MPPT control and variable structure SVPWM control adopted minimize the power loss to achieve full load high efficiency. Enhanced DSP control, comprehensive protection functions and advanced thermal design enable the whole system with high reliability.

Efficiency Curve



High Efficiency

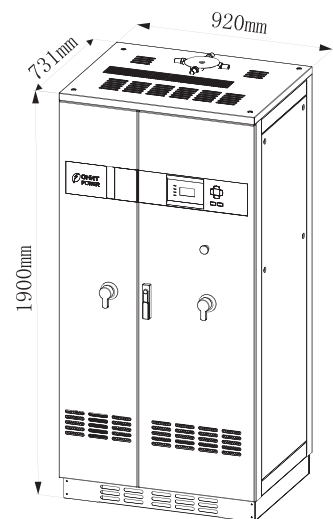
- Max. efficiency of 97.6%
- $\geq 99.9\%$ MPPT efficiency
- Sliding mode variable structure SVPWM control to achieve full load efficiency

High Reliability

- Design for reliability
- Comprehensive protection functions
- Enhanced DSP control system
- Advanced thermal design, fan speed control
- Island protection
- Ground-fault circuit & Interrupter input insulation resistance detection
- Low frequency transformer
- Double MCU realize multiple protection

Broad Adaptability

- Multi-language display
- High altitude application
- Reactive power adjusting, active power derating (Optional)



Dimensions (mm)



RD1663 ENEL

Technical Data

DC Input	
Max. DC Voltage*	880Vdc
MPPT Voltage Range	430-820Vdc
Max. DC Power	110kWp
Max. Input Current	250A
Max. Number of Strings	4
MPP Tracker	1
AC Output	
Output Power	100kW
Nominal Output Voltage	400Vac, 3 phase
Grid Voltage	320-460Vac
Nominal Grid Frequency	50/60Hz
Current THD	<3%
Power Factor	~1
System	
Max. Efficiency	97.6% [ⓧ]
Euro Efficiency	97.0%
Protection Degree	IP20
Stand-by Consumption	<50W
Operating Temperature Range	-20°C - +60°C
Cooling	Forced cooling / RPM regulated fan
Humidity	0-95%, non-condensing
Altitude	4000m
Display and Communication	
Display	LCD
Communication	RS485
Mechanical Data	
W×H×D (mm)	920×1900×731
Weight (kg)	880

*Note: Stresses beyond those listed under “Max. DC Voltage” may cause permanent damage to the device.

ⓧNote: Max efficiency is measured at $U_{DC}=460V$ with external aux power.

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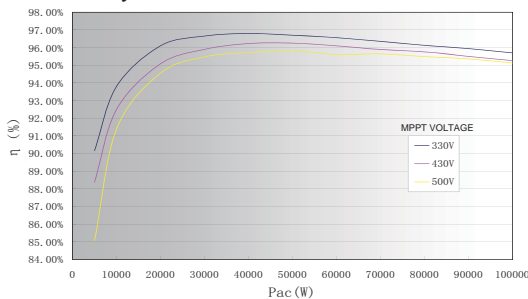
100kW Grid-tied PV Inverter for North America

The CPS SC100KT-O/US-480 grid-tied PV inverter is designed for the North America market. The output is designed with a built-in transformer to allow direct connection to low voltage grid. The inverter achieves a 96.8% max efficiency with low loss magnetic materials, advanced MPPT control and variable loss structure SVPWM controls to minimize the power loss.

The inverter enclosure is rated NEMA 3R for outdoor applications and its compact design minimizes the space required for installation. It also features film-type capacitors, enhanced DSP control, comprehensive protection functions and advance thermal design to make the whole system highly reliable.



Efficiency Curve



High Efficiency

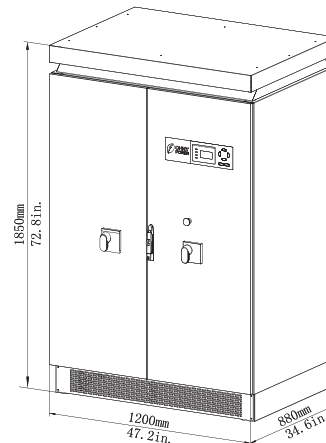
- Max. efficiency of 96.8%, CEC efficiency of 96.0%
- High speed and precise MPPT algorithm
- Patented SV PWM control technique with precise thermal design to achieve high efficiency over wide load range

Broad Adaptability

- NEMA 3R (IP44) Rain proof & Ice / Sleet proof enables indoor/outdoor application
- High altitude application
- Multi communication interface: RS485, Ethernet
- Reactive power adjusting and active power derating (optional)
- Integrated ground fault detector interrupt
- Integrated AC/DC surge protection
- Negative grounded (positive grounded as an option)
- Wide MPPT range enables flexible stringing

High Reliability

- Design for reliability
- Comprehensive protection functions
- Enhanced DSP control system
- Advanced thermal design, with variable speed fans
- Anti-Islanding protection
- Special designed low frequency transformer
- Redundant controller for system protection
- Ground-fault detection and interruption circuit



Dimensions



Technical Data

DC Input	
Max. DC Voltage	600Vdc
MPPT Voltage Range	300-600Vdc
Max. DC Power	110kWp
Max. Input Current	350A
Max. Number of Input Circuits	4
AC Output	
Output Power	100kW
Nominal Output Voltage	480Vac, Three-phase
Grid Voltage	422-528Vac
Nominal Grid Frequency	60Hz
Current THD	<3%
Power Factor	>0.99
System	
Max. Efficiency	96.8%
CEC Efficiency	96.0%
Ingress Protection	NEMA 3R (IP44)
Stand-by Consumption	<40W
Operating Temperature Range	-20°C - +60°C / -4°F - +140°F
Cooling	Variable speed cooling fans
Humidity	0-95%, non-condensing
Altitude	2000m (derating from 1500m)
Display and Communication	
Display	LCD
Communication	RS485, Ethernet (optional)
Mechanical Data	
W×H×D	1200×1850×880 (mm) / 47.2×72.8×34.6 (in)
Weight	900/1984 (kg/lb)
Certificates	
Standard & Codes	UL1741, CSA-C22.2 NO.107.1-01, IEEE1547, FCC part15
Warranty	
Standard	5 years
Option	Up to 20 years

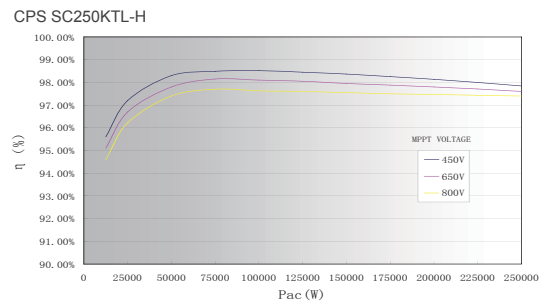
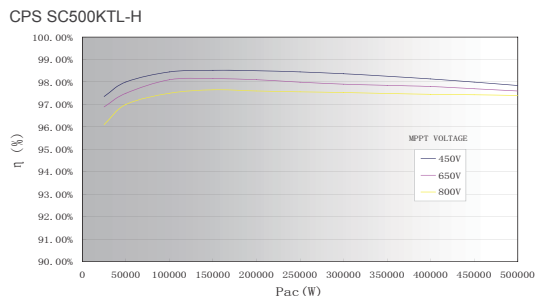
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250kW & 500kW Grid-tied PV Inverter

CPS SC500KTL-H and CPS SC250KTL-H grid-tied PV inverters, with TUV certified, can be applied in different types of commercial rooftop and power station PV systems. The DC input voltage range can reach up to 1000V which allows the system configuration to be more flexible. With the low loss magnetic material and advanced control algorithm, the inverter can reach the maximum efficiency of 98.5%.

Efficiency Curve



High Efficiency

- Max. efficiency of 98.5%, Euro efficiency of 98.3%
- ≥99.9% MPPT efficiency
- Space vector PWM
- Two paralleled modules topology, to improve light load efficiency and reliability (CPS SC500KTL-H)

High Reliability

- Design for reliability
- Comprehensive protection functions
- Double DSP + Double MCU realize multiple protection
- Advanced thermal design, fan speed control
- Ground-fault circuit & Interrupter input insulation resistance detection

Broad Adaptability

- Multi-language display & Powerful communication interface
- High altitude application
- Low voltage ride through function
- Reactive power adjusting, active power derating
- External low-frequency transformer (Optional)

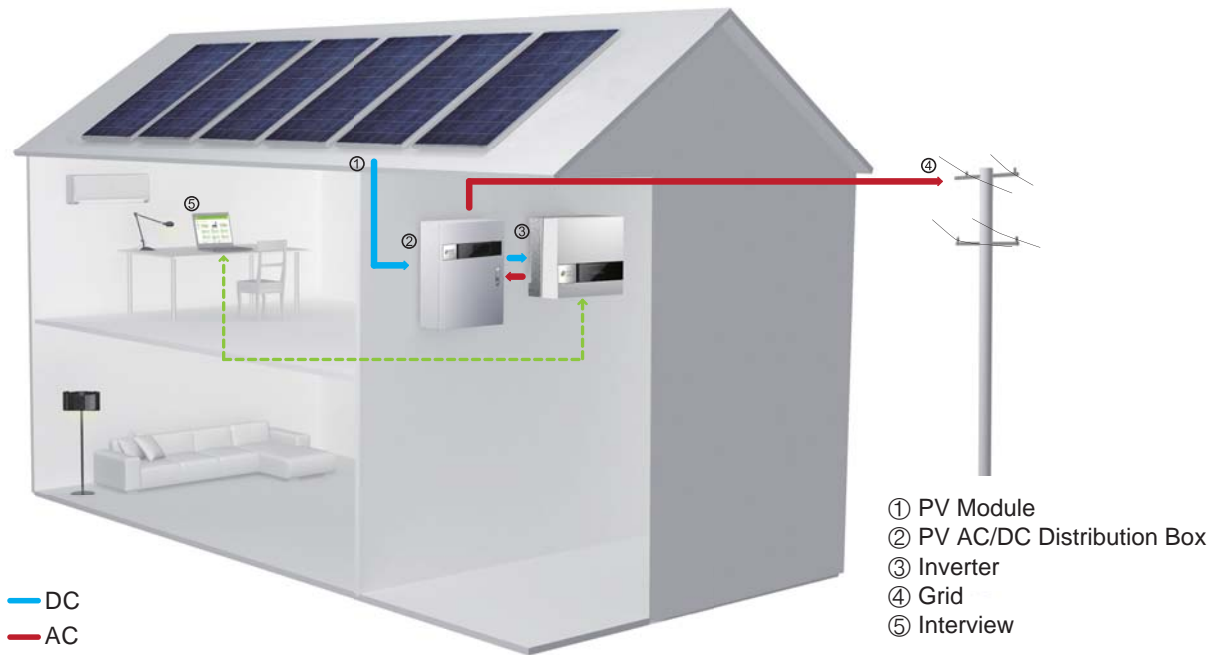


Technical Data

	CPS SC250KTL-H	CPS SC500KTL-H
DC Input		
Max. DC Voltage*	1000Vdc	1000Vdc
MPPT Voltage Range	450-820Vdc	450-820Vdc
Max. DC Power	275kWp	550kWp
Max. Input Current	600A	1200A
Max. Number of Strings	8	16
MPP Tracker	1	1
AC Output		
Output Power	250kW	500kW
Nominal Output Voltage	270Vac, 3 phase	270Vac, 3 phase
Grid Voltage	215-310Vac	215-310Vac
Nominal Grid Frequency	50Hz	50Hz
Current THD	<3%	<3%
Power Factor	0.99 (adj. ± 0.9)	0.99 (adj. ± 0.9)
System		
Max. Efficiency	98.5%	98.5%
Euro Efficiency	98.0%	98.3%
Protection Degree	IP20	IP20
Stand-by Consumption	<100W	<100W
Operating Temperature Range	-20°C - +60°C	-20°C - +60°C
Cooling	Forced cooling / RPM regulated fan	
Humidity	0-95%, non-condensing	0-95%, non-condensing
Altitude	4000m	4000m
Display and Communication		
Display	LCD	LCD
Communication	RS485	RS485
Mechanical Data		
W×H×D (mm)	1600×2100×806	2800×2100×806
Weight (kg)	1100	1800

*Note: Stresses beyond those listed under "Max. DC Voltage" may cause permanent damage to the device.

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Residential Rooftop Grid-tied PV System Reference Design

Chint Power Systems' residential roof-top PV system provides the PV power reference design for households. The power capacity of residential rooftop solution ranges from 1.5kW to 4.6kW and customized configuration is also available with the help of the Interdesign system configuration software of our company. The entire PV system consists of PV modules, inverter, DC&AC distribution box and monitoring system. The PV DC&AC distribution box developed by our company integrates the switches with lightning protection devices on both of DC/AC side, simplifying the system configuration and ensuring the inverter of efficiency and the grid of safety.

■ Configuration Example (customization available)



Example 1: 1.5kW

- PV Module: 7 pieces of 230W PV modules
- DC&AC Distribution Box: CPS DBW1.5K-O
- Inverter: CPS SCE1.5KTL
- AC/DC Cables: 2.5-4mm²



Example 2: 2kW

- PV Module: 9 pieces of 230W PV modules
- DC&AC Distribution Box: CPS DBW2K-O
- Inverter: CPS SCE2KTL
- AC/DC Cables: 2.5-4mm²



Example 3: 3kW

- PV Module: 13 pieces of 230W PV modules
- DC&AC Distribution Box: CPS DBW3K-O
- Inverter: CPS SCE3KTL-O
- AC/DC Cables: 2.5-4mm²



Example 4: 4kW

- PV Module: 2 groups with 9 pieces of 230W PV modules
- DC&AC Distribution Box: CPS DBW4K-O
- Inverter: CPS SCE4KTL-O
- AC/DC Cables: 2.5-4mm²



Example 5: 4.6kW

- PV Module: 2 groups with 10 pieces of 230W PV modules
- DC&AC Distribution Box: CPS DBW4.6K-O
- Inverter: CPS SCE4.6KTL-O
- AC/DC Cables: 4-6mm²

■ PV AC/DC Distribution Box



Outside View

Inside View

	CPS DBW1.5-4.6K-O
Max. DC Voltage	500-750Vdc
Max. Input Current	10-25A
Nominal AC Voltage	220V
Nominal AC Current	10-25A
Protection Degree	IP65
Operating Temperature Range	-25°C - +55°C
W×H×D (mm)	430×530×160

Technical Data

■ Inverter



SCE1.5KTL

SCE2KTL

SCE3KTL-O

SCE4KTL-O

SCE4.6KTL-O

	SCE1.5KTL	SCE2KTL	SCE3KTL-O	SCE4KTL-O	SCE4.6KTL-O
Max. DC Voltage (Vdc)	550	550	600	600	600
MPPT Voltage Range (Vdc)	175-500	200-500	200-500	225-500	200-500
Max. Input Current (Adc)	9.1	11	17.5	20	2×17
Output Power (W)	1500	2000	3000	4000	4600
Grid Voltage (Vac)	184-264.5	184-264.5	184-264.5	184-264.5	184-264.5
Max. Efficiency (%)	96.5	96.8	97.2	97.5	97.5

Technical Data

■ PV Plant Monitoring Software-Interweb



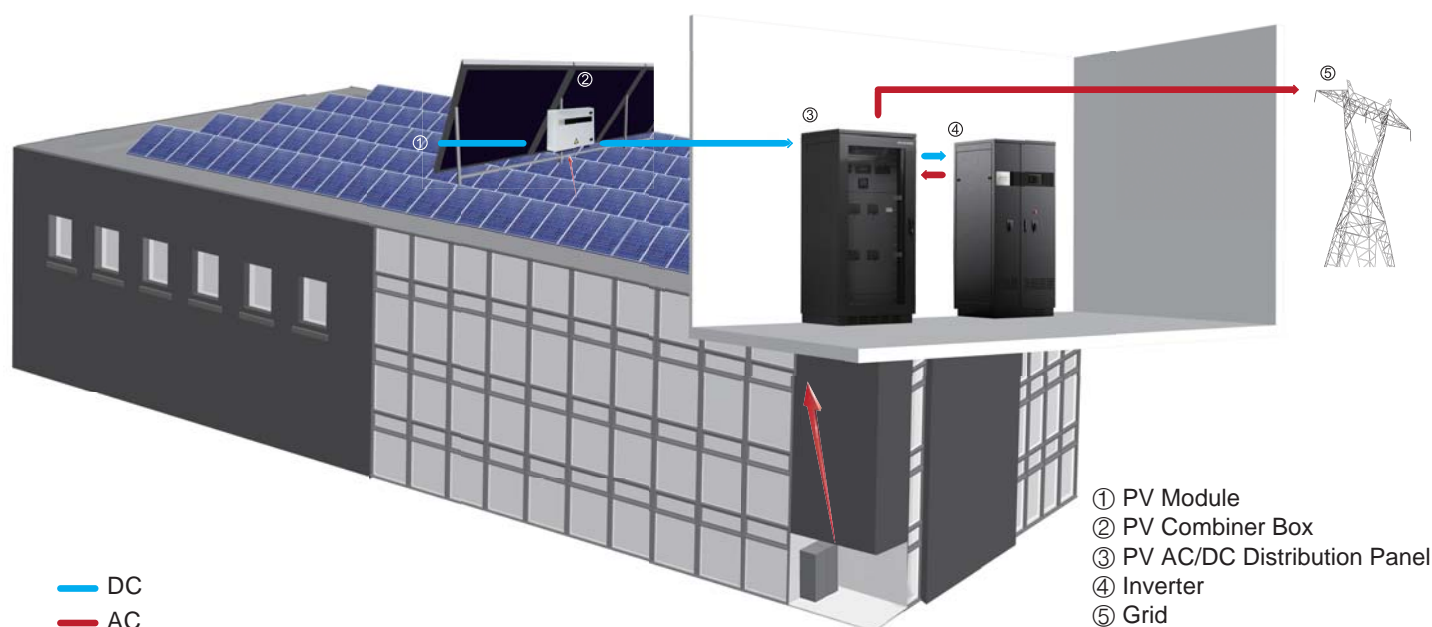
- Abundant data and information
- Real time curve display
- Friendly user interface
- Historical events and fault alarms recorded

■ PV System Configuration Software-Interdesign



- Simple operation and friendly interface
- Provide customized configuration of PV systems
- Automatic software upgrading
- Support customized result output

100kW Commercial Rooftop Grid-tied PV System Reference Design



100kW PV system reference design is mainly applied to the medium and large scale of commercial rooftop PV power supply system. The whole system is composed of PV modules, combiner box, inverter, DC/AC distribution panel and monitoring system. The PV DC/AC distribution panel of our company integrates the whole system by centralizing the switches and lightning protection devices on both of DC and AC side to keep the inverter efficient and the grid safe. Besides, the electric voltage and current of each string can be accurately measured. The Commercial rooftop grid-tied PV system can also be customized to the needs of customers from 10kW to 500kW.

■ Configuration Example (customization available)



Example 1: 100kW×1

- PV Module: 440 pieces of 230W PV modules
- Combiner Box: CPS CB12-O×2
- DC&AC Distribution Panel: CPS DPW100K
- Inverter: CPS SC100KT
- AC/DC Cables: 4.0-120mm²



Example 2: 20kW×5

- PV Module: 5 groups with 90 pieces of 230W PV modules
- Combiner Box: CPS CB06-O×5
- DC&AC Distribution Box: CPS DBW20K-O×5
- Inverter: CPS SC20KTL-O×5
- AC/DC Cables: 4.0-16mm²

■ Inverter



Outside View

	CPS SC20KTL-O	CPS SC100KT
Max. DC Voltage	850Vdc	880Vdc
MPPT Voltage Range	430-800Vdc	430-820Vdc
Max. Input Current	42Adc	250Adc
Output Power	20kW	100kW
Grid Voltage	323-418Vac	323-418Vac
Max. Efficiency	98.1%	97.6%

Technical Data

■ PV Combiner Box (CPS CB12-O)



Outside View

Inside View

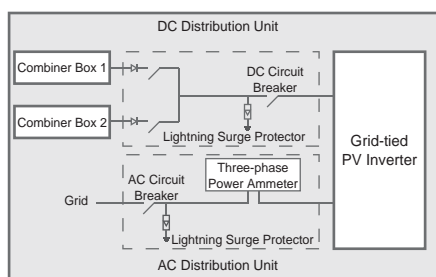
	CPS CB06-O	CPS CB12-O
Max. DC Voltage	1000V	
Max. Strings of DC Input	6	12
Max. Input Current	6×10A	12×10A
Max. Output Current	60A	120A
Protection Degree	IP65	
Operating Temperature Range	-25°C - +55°C	
W×H×D (mm)	550×450×180	680×500×180

Technical Data

■ PV AC/DC Distribution Panel (CPS DPW100K)



Outside View



Schematic Diagram

	CPS DPW100K
Max. DC Voltage	1000Vdc
Max. Strings of DC Input	2
Max. Input Current	2×125A
Nominal AC Voltage	380Vac
Max. Output Current	250A
Protection Degree	IP20
W×H×D (mm)	800×1900×725

Technical Data

■ PV AC/DC Distribution Box (CPS DBW20K-O)

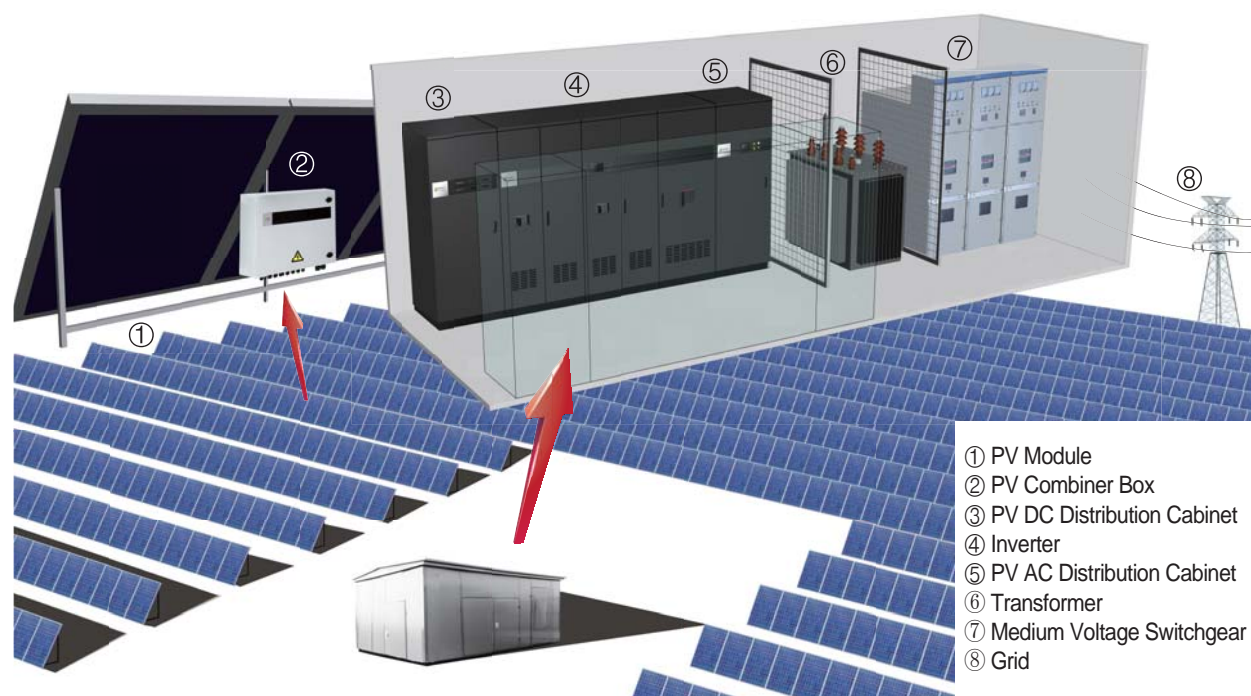


Outside View

Inside View

	CPS DBW20K-O
Max. DC Voltage	1000Vdc
Max. DC Input Current	40-50A
Nominal Grid Voltage	380Vac
Max. AC Output Current	25-50A
Protection Degree	IP65
Operating Temperature Range	-25°C - +55°C
W×H×D (mm)	500×600×180

Technical Data



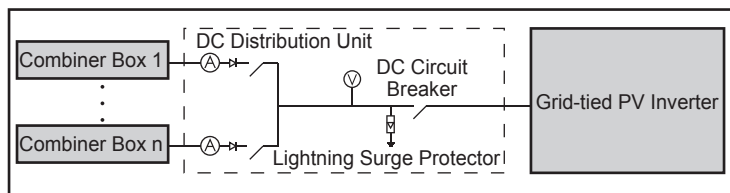
1MW Utility Grid-tied PV System Reference Design

1MW PV system reference design is mainly applied to the ground-mounted utility system. The whole system is composed of PV modules, combiner box, inverter, DC distribution cabinet, AC distribution cabinet and transformer, etc. Besides, indoor and outdoor installation methods are both available for customers to choose. The whole system can be installed in the transformer station or in the pre-installation PV system cabinet outside the transformer station according to the cable connecting requirement. The 1MW PV grid-tied system consists of two 500kW inverters which output 270V three-phase AC, then by boosting the voltage of which to 10kV or 35kV to feed to the grid.

■ Configuration Example (customization available)

	Model	Number
PV Module (Polysilicon)	235Wp	4360
PV Combiner Box	CPS CB12-O	20
PV DC Distribution Cabinet	CPS DPD250K	4
Inverter	CPS SC500KTL-H	2
PV AC Distribution Cabinet	CPS DPA500K	2
Transformer	SCB10-1000 10/0.27×0.27kV	1
Medium Voltage Switchgear	KYN28-12(N)	1
DC Cables	PV1-F 1000V	Several
AC Cables	YJN 0.6-10kV	Several

■ PV DC Distribution Cabinet



Schematic Diagram

	CPS DPD250K
Max. Strings of DC Input	5
Max. DC Voltage	1000Vdc
Nominal DC Input Current	5 × 125A _{dc}
Nominal Output Current	600A
Protection Degree	IP20 as Min. protection level for indoor use
Operating Temperature Range	-25°C - +55°C
Weight	≤230kg

Technical Data



Outside View

Dimensions (mm)

■ Inverter

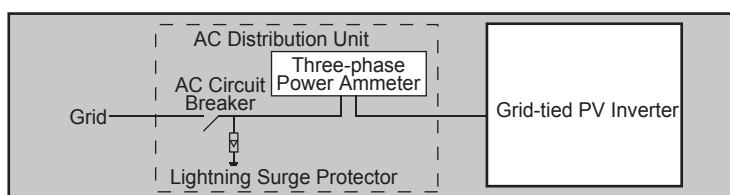
	CPS SC500KTL-H
Max. DC Voltage	1000Vdc
MPPT Voltage Range	450-820Vdc
Max. Input Current	1200A
Output Power	500kW
Grid Voltage	215-310Vac
Max. Efficiency	98.5%

Technical Data



Outside View

■ PV AC/DC Distribution Cabinet



Schematic Diagram

	CPS DPA500K
Nominal Voltage	380V
Nominal Current	1250A
Nominal Grid Frequency	50Hz
Nominal Insulation Voltage	690V
Protection Degree	IP20 as Min. protection level for indoor use
Operating Temperature Range	-25°C - +55°C
Weight	≤230kg

Technical Data



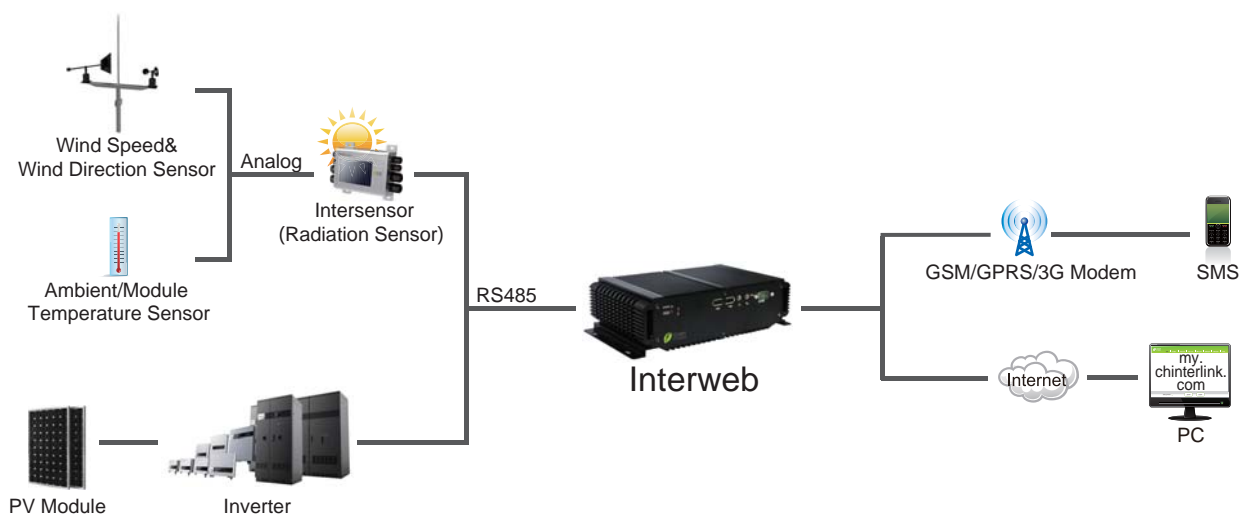
Outside View

Dimensions (mm)

CPS PV Power Plant Monitoring System

The “Interweb”, a CPS PV power plant monitoring system, is comprised of software and configurable server. The software is a standing-alone package, and is installed under Windows OS for on-site monitoring of PV system. It is a web-based system for Internet web-access through LAN or WAN, and worked with an ultra-compact and highly efficient low power hardware. The CPS inverter and its peripherals are connected to Interweb via RS485 interface. Interweb records system operation data, fault messages, historical data, and etc. Configuration tools are available for flexible system management. Various charts and diagrams are provided by Interweb for yield report and analysis; the fault notifications are sent through email and/or SMS.

■ Diagram



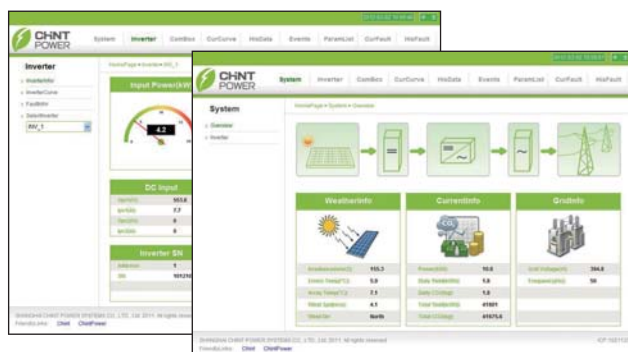
■ Interweb



Ultra-Compact Server with Interweb Preloaded

- Web-based system for Internet access
- Power efficient software and hardware design.
- Configurable software for 4 RS232/RS485 interfaces
- 250G hard disk with 150MB/s transfer speed, CF card supported
- Alarm notification: Email, SMS(optional)
- Max 124 CPS devices (inverters and peripherals) supported
- Total solution for monitoring in one box

■ Software Features



<http://my.chinterlink.com>

- Abundant data and reports
- Graphic display, easy to catch
- Users-friendly interface
- Easy exporting historical report, sent weekly by email

■ Interweb Overview

OS	Windows 2000/XP
Hardware	CPU: Intel Atom D525, Memory: 1G, Hard disk: 250G (Minimum requirement)
Resolution	SVGA/1024X768
System Info.	Total power, daily generation power, daily CO ₂ saving, total generation power, total CO ₂ saving, radiation, environment temperature, grid voltage & frequency, etc
Inverter Info.	PV voltage & current, input power, AC voltage & current & frequency, output power, temperature (internal, module, transformer), daily generation power, total generation power, current fault, historical fault, power curve
Environment Info.	Solar radiation, Environment temperature
Fault Alert	Email and SMS
Historical Data Report	Exporting historical data and fault information report, sent weekly by email

■ International 3rd party Monitoring Cooperation



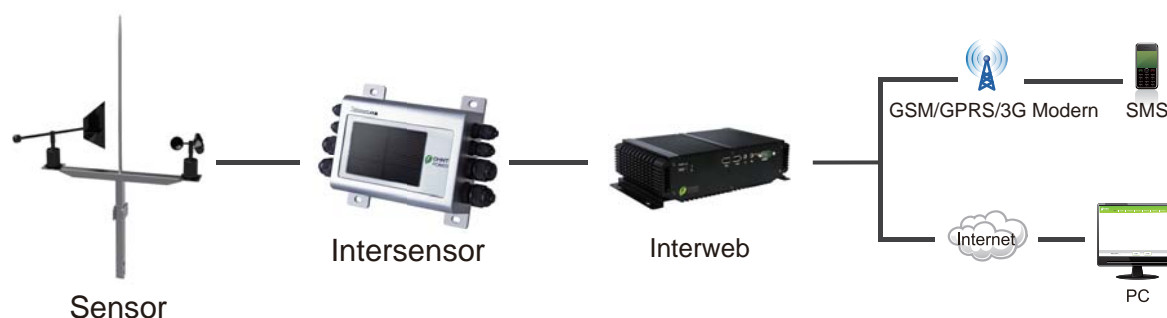
Chint Power Systems has cooperated with a number of internationally renowned third party monitoring platform providers. The customers can also select and use based on their needs.

Weather Station - Intersensor

CPS Intersensor real-time monitors environmental data including irradiance, ambient temperature, PV-module temperature through various sensors. With optional sensors, such as ambient temperature sensor, wind speed sensor, and wind direction sensor more flexibility solution are achieved.

Intersensor communicates via specific protocol with CPS data logger. Wholly system provides actual operating data analysis for a running PV plant.

■ System Schematic

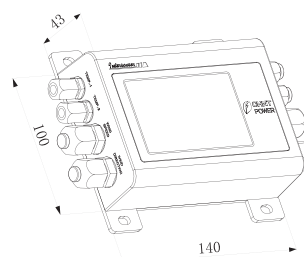


■ Intersensor

- IP65 compliant for outdoor application
- Comply with RoHS & CE
- Precise acquisition of sensors values
- Data analysis on any PC
- Scientific interface design, easy to install
- Easy to communication via RS485
- Professional industrial design, well-shaped



Intersensor



Dimensions (mm)




Technical Data

CPS Intersensor





Communication	
Data Logger Communication	RS485
Power Supply	
Power Supply	Power adapter
Input Voltage (Adapter)	100-240Vac, 50/60Hz
Input Voltage (Intersensor)	24Vdc / 14-28Vdc
Power Consumption	1.44W
Environmental Conditions in Operation	
Ambient Temperature	-20°C - +50°C
Ingress Protection	IP65
Mechanical Data	
W×H×D (mm)	140×100×43
Weight (g)	950
Accessories	
Irradiation Sensor	●
Module Temperature Sensor	●
Ambient Temperature Sensor	●
Wind Speed Sensor	○
Wind Direction Sensor	○
Sensor Frame	○
Power Adapter	●

● Standard features ○ Optional features

Interface Definition - Intersensor

Intersensor	Interface Definition	
	1. Module Temp.	5. Expansion Port 1
	2. Ambient Temp.	6. Expansion Port 2
	3. Wind Speed	7. Power
	4. Wind Direction	8. RS485

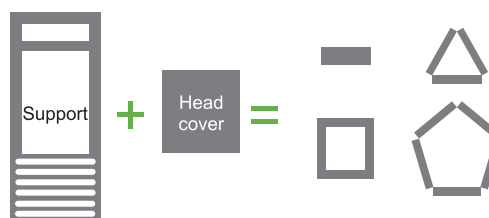
Sensor Type and Data Recommended

Sensor Type	Irradiation Sensor	Module Temp. Sensor	Ambient Temp. Sensor	Wind Speed Sensor	Wind Direction Sensor
					
Technical Data					
Material	Polysilicon	PT100		Plastic	Plastic
Working Temp.	-20 - +85°C	-20 - +110°C		-40 - +80°C	-40 - +80°C
Measuring Range	0-1500W/m ²	-20 - +100°C	-20 - +85°C	0-70m/s	0-360 °
Measuring Accuracy	±5%	±0.1°C		±0.1 m/s	0.1%

CPS Matrix



- Unique and modern modular bracket design, flexible assembly
- Small area occupation, no extra support needed
- Convenient cable management function
- User-friendly door-open and security design
- Easy and convenient installation and maintenance
- Indoor and outdoor applications
- Compatible with 1.5kW to 20kW inverters



CPS Matrix provides customers various installation solutions, especially when proper wall surface or supporting point is not available, such as outdoor, open area, unqualified hanging conditions and etc.

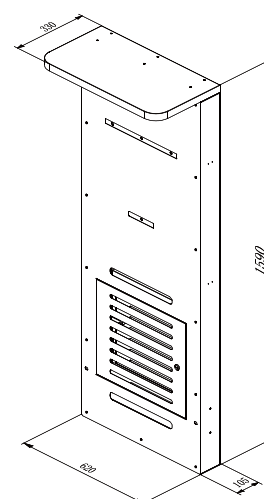
Adopting a unique and fashion modular design, the bracket system allows flexible assembly and modular extension to fit the applications. Meanwhile, professional industrial design, convenient cable assembly management function, heat dissipation consideration and door-open design make installation and maintenance easy and convenient.

Wiring Schematic Diagram



- **Cable assembly input**
Cable assembly enters Matrix interior through the upper window
- **Cable assembly output 1**
Cable assembly enters ground wiring slot from bracket interior when ground wiring slot is available (full veil)
- **Cable assembly output 2**
Cable assembly releases from lower window of Matrix when ground wiring slot is not available (half veil)

Bracket Module Dimensions (mm)



Technical System Parameters (configuration example: CPS SC20KTL-O)

	CPS Matrix-1	CPS Matrix-2	CPS Matrix-3	CPS Matrix-4	CPS Matrix-5
Inverter Quantity	1	2	3	4	5
Inverter Types	1.5/2/2.8/4KTL & 4/5/6/7KTL-O/US & 4/4.6/10/KTL-O & 20KTL-O/DO & 20KTL-DO/US-480				
DC Input					
Max. DC Voltage*	850Vdc				
MPPT Voltage Range	430-800Vdc				
Max. DC Power	22kWp×1	22kWp×2	22kWp×3	22kWp×4	22kWp×5
Max. Input Current	42A×1	42A×2	42A×3	42A×4	42A×5
Max. Number of Strings	5×1	5×2	5×3	5×4	5×5
AC Output					
Output Power	20kW×1	20kW×2	20kW×3	20kW×4	20kW×5
Nominal Output Voltage	400Vac, 3 phase				
Grid Voltage	323-418Vac				
Normal Grid Frequency	50Hz				
System					
Max. Efficiency	98.1%				
Euro Efficiency	97.5%				
CEC Efficiency	97.8%				
Protection Degree	IP65				
Stand-by Consumption	<20W×1	<20W×2	<20W×3	<20W×4	<20W×5
Operating Temperature Range	-20°C - +65°C				
Humidity	0-95%, non-condensing				
Altitude	4000m				
Display and Communication					
Inverter Display	LCD				
Inverter Communication	RS485				
Mechanical Data					
Area (m²)	0.4	0.4	1.2	1.4	2.3

*Note:Stresses beyond those listed under “Max. DC Voltage” may cause permanent damage to the device.

Schematic Diagram of Various Assemblies


Single module



Double modules


 Four modules
(see the previous page
for three modules)


Five modules

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 Mail : sales.cps@chint.com
 Web: www.chintpower.com

DC Switch

DC Switch is designed to work with CPS Grid-Tie inverters from 1.5kW to 10kW. There are two DC Switches with maximum input current 16A and 25A respectively that can be selected for inverters with different power levels. The input side of DC Switch is equipped with MC4 connectors for connecting up to three input lines, depending on the power level. The DC Switch is rated IP65 ingress protection for both outdoor and indoor applications.

The IEC standard requires the use of DC Switches between photovoltaic modules and inverters. A PV system with DC Switch allows easy and convenient disconnection from the input DC in order to make safe installation and maintenance of inverters. With the features of small size, fashion appearance and easy installation, the DC Switch is used with a variety of CPS inverters, and provides a high level of safety for users.

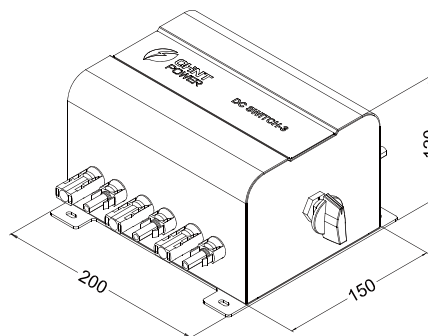


DC Switch-3: 3 strings, 1000Vdc, 25A

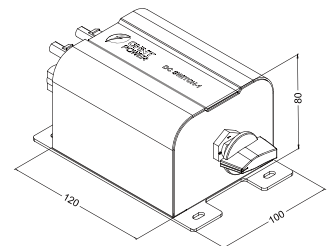


DC Switch-1: 1 string, 600Vdc, 16A

- Special designed for PV inverters
- High reliability, sufficient protection for your PV systems
- 1000Vdc/25A, 3*2 poles, 600Vdc/16A, 1*2 poles
- IP65 compliant for outdoor application
- Comply with RoHS & CE
- Compact design
- Easy installation, easy operation



DC Switch-3



DC Switch-1

Dimensions (mm)



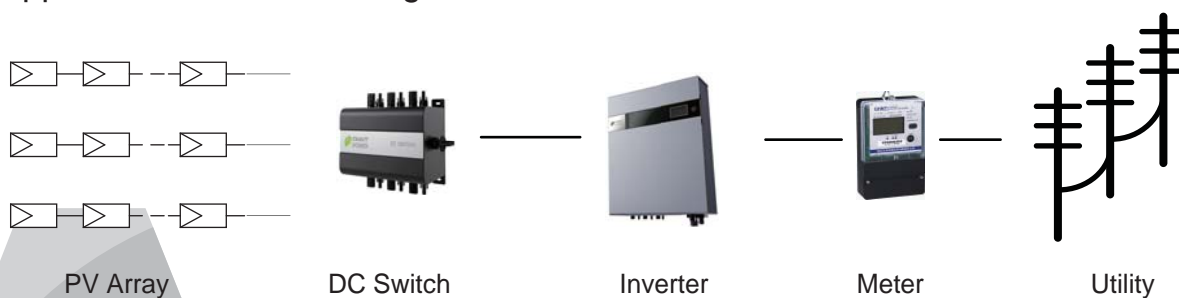
■ Technical Data

Model	DC Switch-3	DC Switch-1
Max. Input Voltage	1000Vdc	600Vdc
Max. Input Current	25A	16A
Input Type	MC4	MC4
Number of Inputs	3 DC strings	1 DC string
Output Type	MC4	MC4
Number of Outputs	3 positive, 3 negative	1 positive, 1 negative
Ingress Protection	IP65	IP65
Ambient Condition	-20°C - +50°C	-20°C - +50°C
Mechanical Data		
W×H×D (mm)	200×150×120	120×100×80
Weight (kg)	2.3	1.0

■ Configuration

DC Switch-3	Inverter Types	DC Switch-1	Inverter Types
	CPS SC4KTL		CPS SC1.5KTL
	CPS SC4KTL-O		CPS SC2KTL
	CPS SC4.6KTL-O		CPS SC2.8KTL
	CPS SC10KTL-O		

■ Application Schematic Diagram





reddot design award
honourable mention 2011

Chint Power Quality, reddot Recognition!

The first red dot award winner of inverter manufacturers in China.

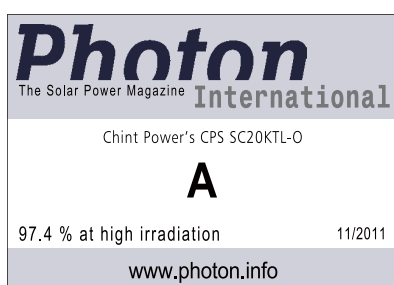
Chint Power Systems Won the reddot Design Award 2011

March 2011, Shanghai Chint Power Systems Co., Ltd. (hereinafter referred to as "CPS") CPS SC Series inverter won German top industrial design award "red dot Award". Approximately 1,700 companies from 60 countries have taken part in with 4,433 entries in total, only the very best products managed to convince the expert jury.

The industrial design of the award-winning products of CPS combines concise straight lines and high-quality aluminum plate, which conveys to the client meaning of "technology, reliability, user-friendly" , fully embodies the brand culture of CPS.

red dot Design Award - the "Oscar" Awards in the Design Field

red dot design award was founded by the famous German Association of Design "Zentrum Nordrhein Westfalen". With more than 50 years of history, it is the world's largest and most renowned design award, joining the "iF Award" German, "IDEA Award" the United States to be called the world's three major design awards, which is known as the design world's "Oscar".



Medium irradiation efficiency: **97.1%**
 High irradiation efficiency: **97.4%**
 Maximum conversion efficiency: **98.1%**



CPS SC20KTL-O

Chint Power Quality, PHOTON Lab Identify!

CPS SC20KTL-O Received AA Rating by PHOTON Laboratory

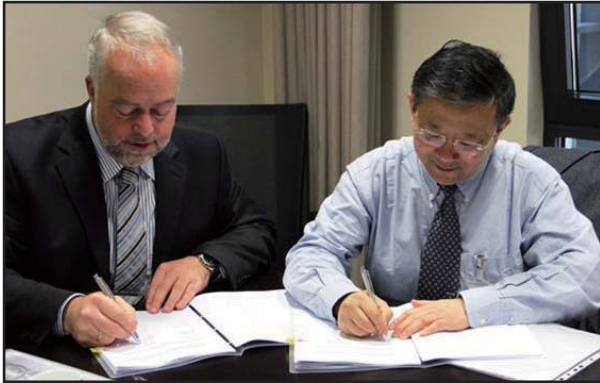
The CPS SC20KTL-O inverter of Chint Power Systems received AA rating in the latest test conducted by the authoritative magazine PHOTON in the global PV industry. The conversion efficiency has reached 97.4% at high radiation condition and 97.1% at medium radiation condition, both have met Level A ranking standard. The performance has ranked among the best in the global products tested by PHOTON.

CPS SC20KTL-O has introduced its proprietary 3-level technology and IGBT/MOSFET shunt technology that greatly elevates the full range of its conversion efficiency. In addition, fully reliable digital control technology, 2-way dual MPPT tracking, advanced thermal design and smart fan speed regulation etc. are also advantageously applied. This product is certified by German TÜV, Italian ENEL2010, Spanish RD1663, British G59, Belgium C10/11 and Chinese Golden Sun to meet the application requirements in most countries worldwide.



CE RD1663 G59 ENEL C10/11

CPS Customer Service to be Fully Launched in Europe



On January 28th, 2011, Mr. Shihzhen Liu (Frank), Vice President of Zhejiang Chint Electrics Co., Ltd. & General Manager of Shanghai Chint Power Systems Co., Ltd., and Dr. Matthias Rode, Vice President of CTDI Europe, officially signed an European Service Cooperation Agreement.

Shanghai Chint Power Systems (CPS) officially reached a Service Cooperation Agreement with CTDI, the world's largest & independent Telecommunication Repair and Service Provider.

Under this agreement, CTDI will open a 24/7 (24 hours/seven days a week) hotline for CPS, reserve whole units and spare parts of CPS' inverters, and guarantee flawless distribution and logistics. Staff from CPS and CTDI will work together to provide customers with a full range of services in Europe, including technical consulting, product maintenance and replacement.

CPS is making an effort to become one of the best photovoltaic inverter providers from Asia who is capable of providing wide service coverage in Europe.

Service Coverage

Nine locations in Europe with more than 1,200 employees



Headquarters in Malsch (Germany)



Friedrichshafen (Germany)



Göttingen (Germany)



Milton Keynes (UK)



Budapest (Hungary)



Mailand (Italy)



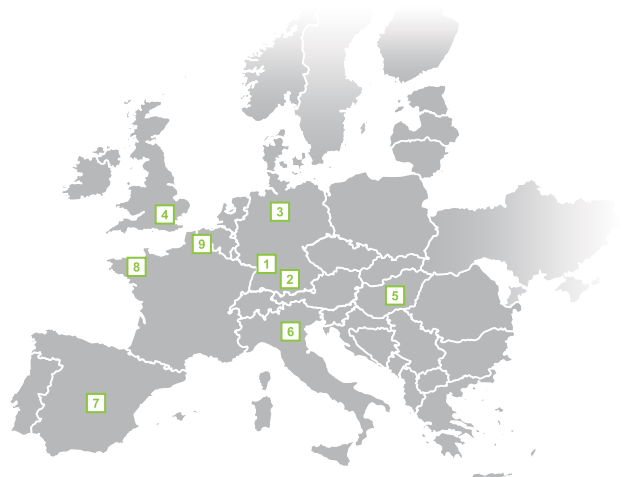
Madrid (Spain)



Dinan (France)



Tourcoing (France)



Global service network
Resolution within 8 hours on site
24 hours hotline and network support

Chint Power Systems Global Customer Service Center
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