CHINT ELECTRIC

CHINT Distributed PV Project Solution Version II

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Contents:

I- About CHINT ---- 02-05

1. Introduction ---- 02-03

2. CHINT Photovoltaics (PV) around the world ---- 04-05

II- Business scope and competitive advantage ---- 06-07

1. PV equipment supply ---- 06

2. PV system design ---- 06

3. Professional on-site construction guidance and after-sales service ---- 07

III- PV System solution ---- 07-39

1. System application environment ---- 07

2. Working Principle ---- 08-09

3. Main equipment ---- 10-19

4. System Solution ---- 20-37

5. Project reference ---- 38-39

CHINT Group Presentation

CHINT is committed to providing the world with safe, reliable and stable electrical equipment and clean energy solutions.
After more than 30 years of growth, CHINT has developed from Asia's largest LV apparatus supplier to leading global Electrical equipment and integrated supplier, with strength from power generation, storage, transmission, transformation, distrilbution to terminal consumption.

Today, with the annual sales revenue exceeding more than 11.4 billion USD and over 30,000 employees around the world, CHINT has provided reliable electrical equipment and solutions for more than 140 countries and regions worldwide as an active player of PV power construction in the global market.

ASTRONERGY
New Energy

CHINT
Power T&D

CHINT
Low Voltage

CHINT Solar Power

CHINT
POWER

Chitic 中自
Automation

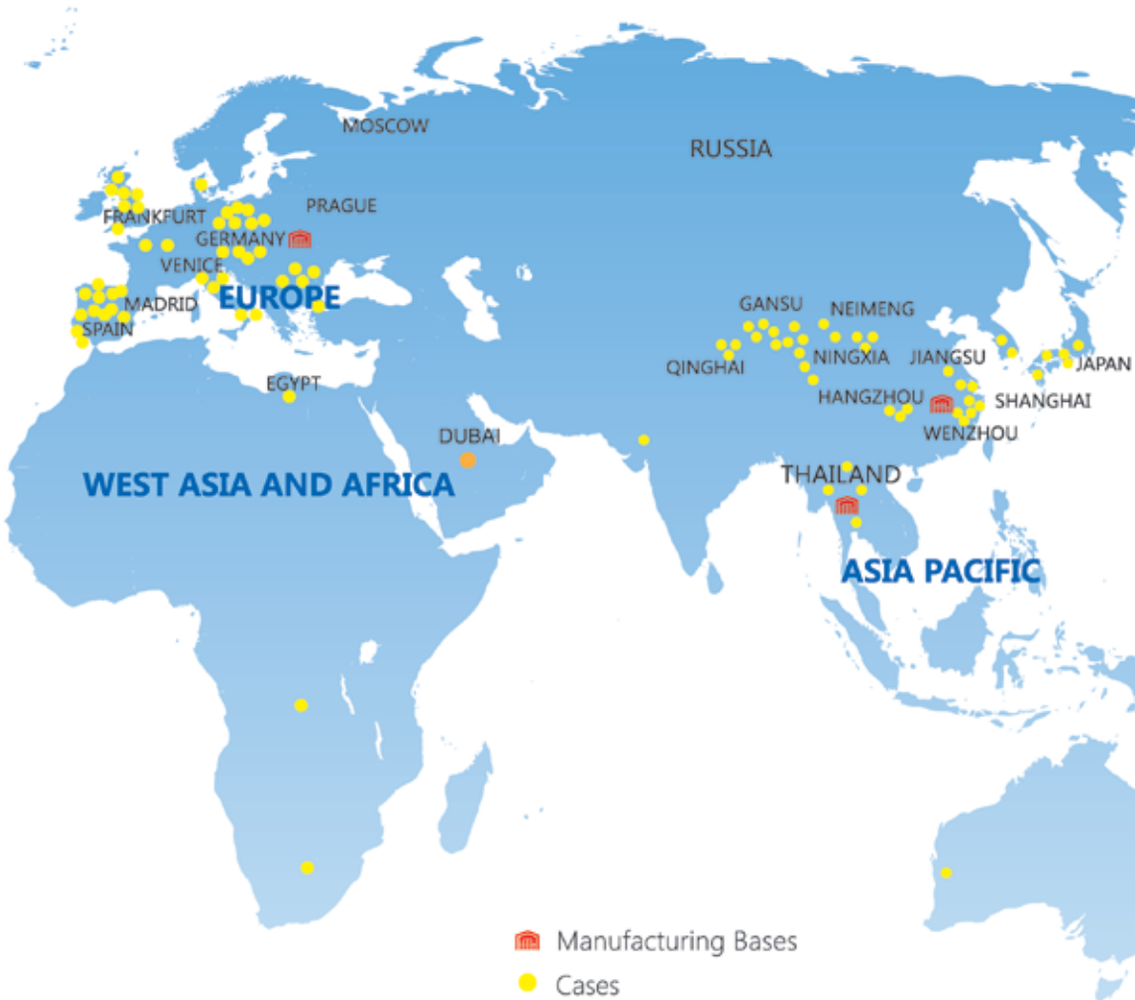
CHINT
Instruments & Meter

CHINT

NOARK 诺雅克
NOARK

Total Solution provider

CHINT Projects Worldwide



Turnkey Solution

EPC Service Turnkey Solution

Design

Measurement

Manufacture

EPC Business Scope

- Solar & Wind Power Plants and other Conventional Energy Power Plants
- Substations and Transmission Lines up to 1000kV
- Oil, Gas & Chemical Industry Power

Construction

Installation

Operation & Maintance

System Solution ● Mining & Metallurgy Industry Power System Solution ● Civil Infrastructure Industry Power System Solution

Business scope and competitive advantages

PV equipment supply

As the world’ s leading electrical industrial chain and solutions provider, CHINT is committed to providing the world leading clean energy solutions. providing equipment includes PV modules, Inverter, combiner box, power distribution cabinet, transformer, cables and monitoring system, etc. Those equipment have been widely used in various types of PV systems. Besides, CHINT electrical equipment received complete approval from customers based on their reliable and stable performance.

System integration, scheme design

Modular design, reasonable combination of the elements of each product based on excellent PV system integration capabilities and abundant oversea PV sales experience won the trust of the customers. The PV system has high power generation efficiency, safe and reliable performance, and can meet the requirements of various applications and environmental conditions.

Professional on-site construction guidance and after-sales service

CHINT has a strong and experienced team in product development, system design and engineering construction. It can provide comprehensive PV system solutions, professional on-site construction technical guidance and prompt & reliable after-sales service.

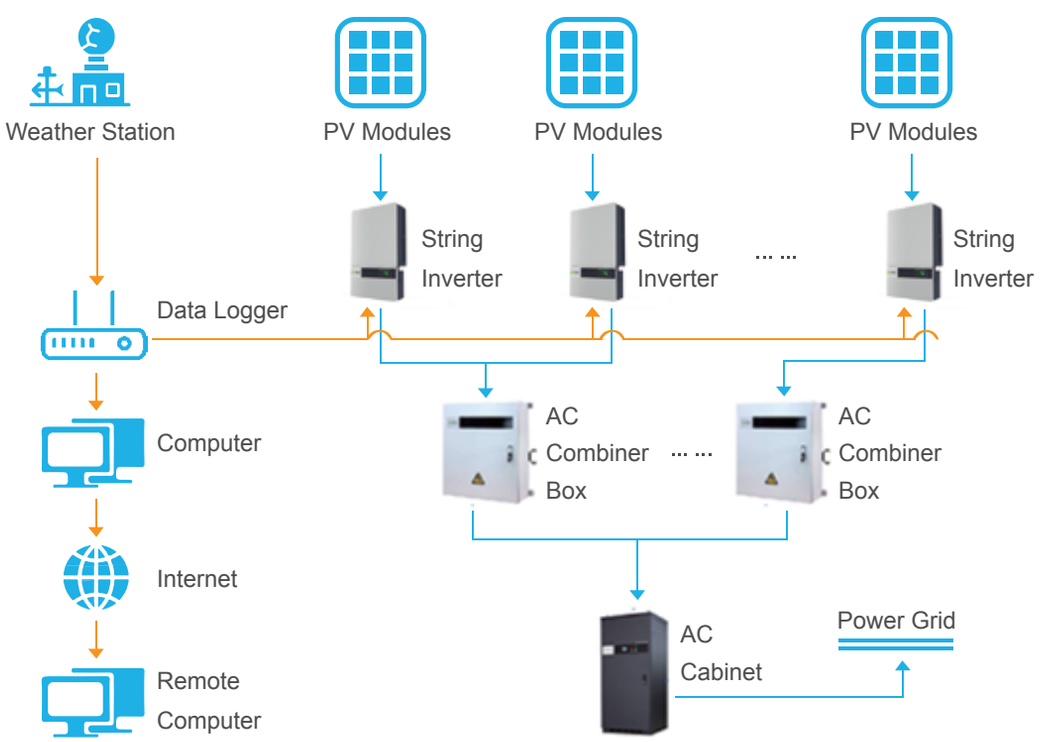
PV System solution

Based on the strong industry chain advantages, cost advantages and PV plants development, design and construction advantage, CHINT could provide the world-leading one-stop solution for PV plants.

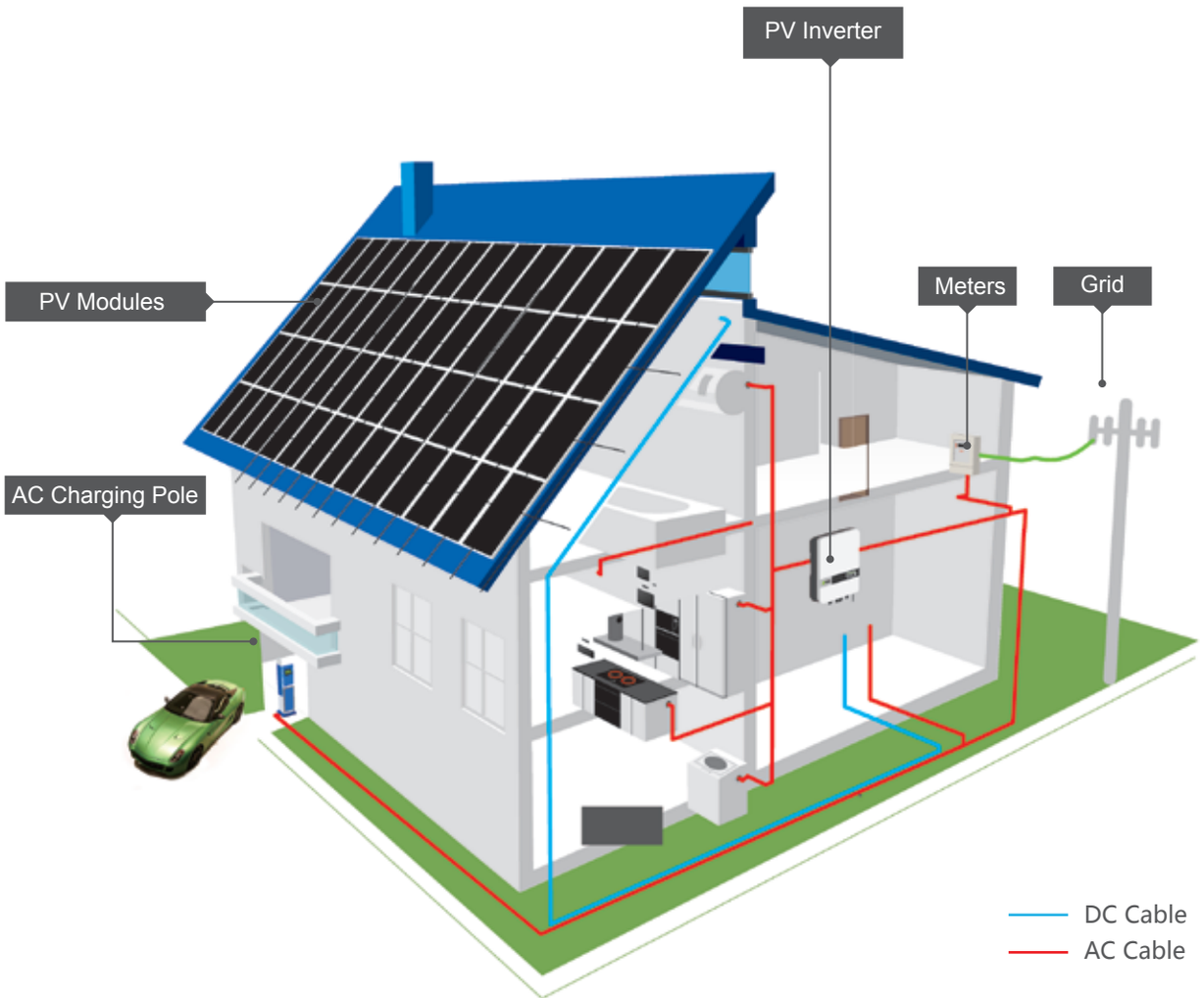
System application environment

Distributed PV system is to build PV power plant by utilizing idle roof or open and unshaded ground resources of house, industrial factories to realize "self-sufficiency and surplus electricity feed-in to the power grid", which has certain energy saving benefits. At the same time, installing PV modules on the roof can increase the thermal insulation performance. In recent years, distributed PV system has been accepted by more and more users as an economic and environmental protection energy mode.

Working Principle



Working Principle



Main equipment

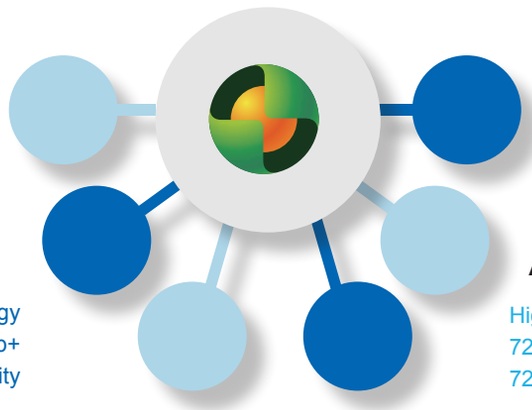
PV modules

AstroTwins™

Bifacial double glass module, increase the power by 5%~30%;
Front Side Power up to 415Wp+
30 years power warranty

AstroMax™

Innovative High density technology
Power up to 440Wp+
Excellent Reliability



AstroNova™

Regular module
Global market certificate
5400Pa/2400Pa mechanical load
The hail impact: Φ=45mm, V=30.7m/s

AstroHalo™

High efficient output with PERC SE technology
72Cell mono PERC 375Wp+
72Cell Poly PERC 350Wp+

AstroSmart™

"Rapid Shutdown"solution integrated, reduce fire risk
Meets NEC 690.12 rapid shutdown requirements
I-V optimization, reduce the mismatch
Intelligent monitoring, reduce O&M cost

AstroSemi™

Reduce internal resistance, power promotion 5~10Wp
MBB & Larger wafer optional
Reduce hotspot risk, with hotspot temperature 15~20℃ lower
Up to 415Wp+ for 72cells

Datasheet of PV modules:

Series	AstroSemi	AstroSemi	AstroSemi
	CHSM60M-HC (158.7)	CHSM60M-HC (166)	CHSM72M-HC (158.75)
Electrical Specifications			
STC rated output (Pmpp)*	345Wp	375Wp	410Wp
Rated voltage (Vmpp) at STC	34.96V	34.28V	41.85V
Rated current (Impp) at STC	9.87A	10.94A	9.80A
Open circuit voltage (Voc) at STC	42.16V	41.05V	49.80V
Short circuit current (Isc) at STC	10.38A	11.42A	10.38A
Module efficiency	20.30%	20.30%	20.30%
Rated output (Pmpp) at NMOT	257.3Wp	279.6Wp	304.8Wp
Rated voltage (Vmpp) at NMOT	32.59V	31.96V	38.84V
Rated current (Impp) at NMOT	7.89A	8.75A	7.85A
Open circuit voltage (Voc) at NMOT	32.59V	38.59V	46.64V
Short circuit current (Isc) at NMOT	8.35A	9.19A	8.36A

Series	AstroSemi	AstroSemi	AstroSemi
	CHSM60M-HC (158.7)	CHSM60M-HC (166)	CHSM72M-HC (158.75)
Temperature coefficient (Pmpp)	−0.34%/℃		−0.35%/℃
Temperature coefficient (Isc)	+0.04%/℃		+0.04%/℃
Temperature coefficient (Voc)	−0.27%/℃		−0.28%/℃
Nominal module operating temperature (NMOT)	44±2℃		
Maximum system voltage (IEC/UL)	1500Vdc		
Number of diodes	3		
Junction box IP rating	IP68		
Maximum series fuse rating	20A		
STC: Irradiance 1000W/m^2, Cell temperature 25℃ , AM=1.5			
NMOT: Irradiance 800W/m^2, Ambient temperature 20℃ , AM=1.5, wind speed 1m/s			
Mechanical Specification			
Outer dimensions (L x W x H)	1692 x 1002 x 35mm	1765 x 1048 x 35mm	2018 x 1002 x 40mm
Frame technology	Aluminum, silver anodized	Aluminum, silver anodized	Aluminum, silver anodized
Module composition	Glass/ EVA/ Backsheet (white)	Glass/ EVA/ Backsheet (white)	Glass/ EVA/ Backsheet (white)
Front glass thickness	3.2mm	3.2mm	3.2mm
Cable length (IEC/UL)	Portrait: 350mm landscape:1100mm	Portrait: 350mm landscape:1200mm	Portrait: 350mm landscape:1200mm
Cable diameter (IEC/UL)	4mm^2/12 AWG	4mm^2/12 AWG	4mm^2/12 AWG
Maximum mechanical test load	5400Pa (front)/ 2400Pa (back)	5400Pa (front)/ 2400Pa (back)	5400Pa (front)/ 2400Pa (back)
Fire performance (IEC/UL)	Class C (IEC) or Type 1 (UL)	Class C (IEC) or Type 1 (UL)	Class C (IEC) or Type 1 (UL)
Connector type (IEC/UL)	MC4 compatible	MC4 compatible	MC4 compatible
Maximum mechanical test load=1.5*Maximum mechanical design load			
Packing Specification			
Weight (module only)	19.1 kg	20 kg	22.6 kg
Packing unit	31 pcs/ box	31 pcs/ box	31 pcs/ box
Weight of packing unit (for 40' HQ container)	631 kg	661 kg	748 kg
Number of modules per 40' HQ container	806 pcs	806 pcs	682 pcs
Reference photo			

On-grid Inverter

Single phase string inverters

1~3kW

3.6kW

3~6kW

Three phase string inverters

6~15kW

17~22kW

30kW

50/60kW(400V)

60kW(480V)

100/125kW(600V)

250kW (800V)

Inverters for South America

16kW-SA

18kW-SA

30kW-SA

36kW-SA

Central inverters

500kW/630kW/1MW

1.25/1.5MW(1500V)

1MW/1.26MW/2MW/2.5MW

2.5/3MW(1500V)

3.125MW(1500V)

Inverters for North America

16/18kW
/US-280

30/36kW
/US-280

60kW
/US-480

100/125kW
/US-600

Single phase string inverter specification: from 1kW to 3.6kW

Model Name	CPS SCA1KTL-S/EU	CPS SCA2KTL-S/EU	CPS SCA2.5KTL-S/EU	CPS SCA3KTL-S/EU	CPS SCA3.6KTL-S/EU
DC Input					
Max. DC Voltage	600Vdc				
MPPT Voltage Range (Full Load)	90-520Vdc	170-520Vdc	210V-520V	240V-520V	360V-520V
Start Voltage	90Vdc				
Rated DC Voltage	360Vdc				
Number of MPPT	1				
Number of DC Connection Sets per MPPT	1				
DC Disconnection Type	12.5A				11A
Max. Current for input connector	13A				
DC Switch	Integrated Switch				
AC Output					
Rated AC Power	1000W	2000W	2500W	3000W	3600W
Max. AC Power	1100VA	2200VA	2750VA	3300VA	3960VA
Rated AC Voltage	220V, 230V, 240Vac				
Rated AC Voltage Range	180 - 280Vac				
Grid Connection Type	L + N + PE				
Max. AC Current	4.8A	9.5A	11.9A	14.3A	17.2A
Grid Frequency	50/60Hz				
Grid Frequency Range	45-55Hz,55-65Hz				
Power Factor (cosφ)	±0.8 (adjustable)				
Current THD	< 3%				
AC Disconnection Type	-				
Efficiency					
Max. Efficiency	97.4%	97.4%	97.6%	97.6%	97.6%
Euro Efficiency	96.1%	96..8%	97.3%	97.3%	97.3%
Consumption at Night/Standby	< 0.2W/6W				
Environment Data					
Ingress Protection	IP65				
Cooling Method	Natural Convection				
Operating Temperature	-25℃ to +60℃ (45°C to 60°C with derating)				
Ambient Humidity	0 - 100%, Non-condensing				
Altitude	4000m (2000m with derating)				
Display and Communication					
Display	LED + APP (Bluetooth)				
Communication	RS232(Standard) / Wi-Fi & GPRS(Optional)				
Mechanical Data					
Dimensions (W*H*D) [mm]	285 * 336 * 125				
Weight [kg]	8.8				
Safety					
Certifications	EN 61000-6, EN/IEC 62109, IEC 61727,62116, IEC 60068, 61683				

Single phase string inverter specification: from 3kW to 6 kW

Model Name	CPS SCA3KTL-SM/EU	CPS SCA4KTL-SM/EU	CPS SCA5KTL-SM/EU	CPS SCA6KTL-SM/EU
DC Input				
Max. DC voltage	600Vdc			
MPPT Voltage Range (full load)	90-520Vdc	170-520Vdc	240-520Vdc	360-520Vdc
Start voltage	90Vdc			
Rated DC voltage	360Vdc			
Number of MPPT	2			
Number of DC connection sets per MPPT	1			
Max. DC current	11A/11A			
Max. Current for input connector	13A			
DC switch	Integrated switch			
AC Output				
Rated AC power	3000W	4000W	5000W	6000W
Max. AC power	3300VA	4400VA	5500VA	6600VA
Rated AC voltage	220Vac, 230Vac, 240Vac			
Rated AC voltage range	180Vac-280Vac			
Grid Connection Type	L+ N+ PE			
Max AC Output Current	14.3A	19.1A	23.8A	28.6A
Grid frequency	50Hz/60Hz			
Rated frequency range	45-55Hz, 55-65Hz			
Power factor (cosΦ)	±0.8 (adjustable)			
Current THD	< 3%			
AC disconnection type	-			
System Data				
Topology	Transfomerless			
Max. efficiency	97.60%	97.60%	97.80%	98.00%
Euro efficiency	97.20%	97.30%	97.30%	97.40%
Consumption at night/ standby	< 0.2W / 6W			
Environment Data				
Ingress Protection	IP65			
Cooling method	Natural Convection			
Operating Temperature	-25℃ to 60℃ (45℃ to 60℃ with derating)			
Ambient humidity	0-100%, non-condensing			
Altitude	4000m (2000m with derating)			
Display and Communication				
Display	LED+APP (Bluetooth)			
Communication	RS232 (standard) / WI-FI & GPRS (Optional)			
Mechanical Data				
Dimensions (W x H x D) (mm)	335 x 426 x 125			
Weight(kg)	12.8			
Safety				
Certifications	EN 61000-6, EN/IEC 62109, IEC61727, IEC 62116, IEC60068, IEC61683			

Three phase string inverter specification: from 6kW to 15 kW

Model Name	CPS SCA6KTL-T/ EU	CPS SCA8KTL-T/ EU	CPS SCA10KTL-T/ EU	CPS SCA12KTL-T/ EU	CPS SCA15KTL-T/ EU
DC Input					
Max. DC voltage	1000Vdc				
MPPT Voltage Range (full load)	300-800Vdc	380-800Vdc	470-800Vdc	380-800Vdc	470-800Vdc
Start voltage	200Vdc				
Rated DC voltage	620Vdc				
Number of MPPT	2				
Number of DC connection sets per MPPT	1/1			1/2	
Max. DC current	11A/11A			11A/22A	
Max. Current for input connector	13A				
DC switch	Integrated switch				
AC Output					
Rated AC power	6000W	8000W	10000W	12000W	15000W
Max. AC power	6600VA	8800VA	11000VA	13200VA	16500VA
Rated AC voltage	380Vac, 400Vac				
Rated AC voltage range	277Vac-510Vac				
Grid Connection Type	3Φ/N (Optional) /PE				
Max AC Output Current	10A	13A	16A	19A	23A
Grid frequency	50Hz/60Hz				
Rated frequency range	45-55Hz, 55-65Hz				
Power factor (cosΦ)	±0.8 (adjustable)				
Current THD	< 3%				
AC disconnection type	-				
System Data					
Topology	Transfomerless				
Max. efficiency	98.00%	98.00%	98.10%	98.20%	98.20%
Euro efficiency	97.60%	97.70%	97.80%	97.80%	97.80%
Consumption at night/ standby	< 1W / 25W				
Environment Data					
Ingress Protection	IP65				
Cooling method	Natural Convection				
Operating Temperature	-25℃ to 60℃ (45℃ to 60℃ with derating)				
Ambient humidity	0-100%, non-condensing				
Altitude	4000m (2000m with derating)				
Display and Communication					
Display	LED+APP (Bluetooth)				
Communication	RS485 (standard) / WI-FI & GPRS (Optional)				
Mechanical Data					
Dimensions (W x H x D) (mm)	380 x 480 x 176				
Weight(kg)	19.8			21.8	
Safety					
Certifications	EN 61000-6, EN/IEC 62109, IEC61727, IEC 62116, IEC60068, IEC61683				

Three phase string inverter specification: from 17kW to 60 kW

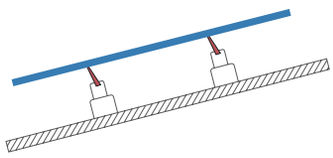
Model Name	CPS SCA17KTL-T/EU	CPS SCA20KTL-T/EU	CPS SCA22KTL-T/EU	CPS SCA30KTL-T/EU	CPS SCA50KTL-T/EU	CPS SCA60KTL-T/EU
DC Input						
Max. DC voltage	1000Vdc				1100Vdc	
MPPT Voltage Range (full load)	480-800Vdc				540-850Vdc	
Start voltage	250Vdc				250Vdc	
Rated DC voltage	620Vdc				620Vdc	
Number of MPPT	2			3	4	4
Number of DC connection sets per MPPT	2			2	3/3/2/2	3/3/3/3
Max. DC current	25A/25A			23A/23A/23A	33A/33A/22A/22A	33A/33A/33A/33A
Max. Current for input connector	13A					
DC switch	Integrated switch					
AC Output						
Rated AC power	17KW	20kW	22kW	30kW	50kW	60kW
Max. AC power	18.7kVA	22kVA	24.2kVA	33kVA	55kVA	66kVA
Rated AC voltage	380Vac, 400Vac			380Vac, 400Vac	380Vac, 400Vac	
Rated AC voltage range	277Vac-520Vac			340Vac-440Vac	277Vac-520Vac	
Grid Connection Type	3Φ/N (Optional) /PE					
Max AC Output Current	28.3A	33.5A	35A	48A	76A	92A
Grid frequency	50Hz/60Hz					
Rated frequency range	45-55Hz, 55-65Hz					
Power factor (cosΦ)	±0.8 (adjustable)					
Current THD	< 3%					
AC disconnection type	-					
System Data						
Topology	Transfomerless					
Max. efficiency	98.30%			98.80%	98.80%	
Euro efficiency	98.00%			98.40%	98.40%	
Consumption at night/ standby	< 1W / 25W					
Environment Data						
Ingress Protection	IP65					
Cooling method	Natural Convection				Cooling fans	
Operating Temperature	-25℃ to 60℃					
Ambient humidity	0-100%, non-condensing					
Altitude	4000m					
Display and Communication						
Display	LED+APP (Bluetooth)					
Communication	RS485 (standard) / WI-FI & GPRS (Optional)					
Mechanical Data						
Dimensions (W x H x D) (mm)	555 x 446 x 270.5			550 x 695 x 278	855 x 555 x 275	
Weight(kg)	35			53	65	67
Safety						
Certifications	EN 61000-6, EN/IEC 62109, IEC61727, IEC 62116, IEC60068, IEC61683					

Three phase string inverter specification: from 16kW to 60 kW

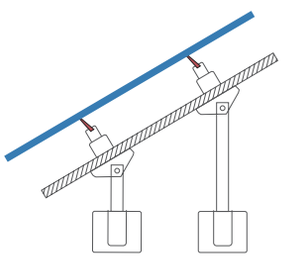
Model Name	CPS SCA16KTL-T/SA	CPS SCA18KTL-T/SA	CPS SCA30KTL-T/SA	CPS SCA36KTL-T/SA	CPS SCA50KTL-DO/EU-400	CPS SCA60KTL-DO/EU-480
DC Input						
Max. DC voltage	800Vdc				1100Vdc	1000Vdc
MPPT Voltage Range (full load)	280-680Vdc	300-680Vdc			540-850Vdc	580-850Vdc
Start voltage	250Vdc				330Vdc/ 80W	
Number of MPPT	3		4	4	3	3
Number of DC connection sets per MPPT	2		3/3/2/2	3/3/3/3	3	4
Max. DC current	23A/23A/23A		33A/33A/22A/22A	23A/23A/23A	32A/32A/32A	38A/38A/38A
Max. Current for input connector	13A					
DC switch	Integrated switch					
AC Output						
Rated AC power	208Vac-15kW	208Vac-16.5kW	208Vac-27.5kW	208Vac-32.5kW	50kW	60kW
	220Vac-16kW	220Vac-17.5kW	220Vac-29kW	220Vac-34.5kW		
	240Vac-17.5kW	240Vac-19kW	240Vac-31.5kW	240Vac-37.5kW	55kVA	66kVA
Rated AC voltage	208Vac, 220Vac, 240Vac				380Vac, 400Vac	3*277/480Vac
Rated AC voltage range	150Vac-300Vac (adjustable)				320Vac-460Vac	422Vac-528Vac
Grid Connection Type	3Φ/N (Optional) /PE					
Max AC Output Current	42A	48A	83A	92A	80A	80A
Grid frequency	50Hz/60Hz					
Rated frequency range	45-55Hz, 55-65Hz					
Power factor (cosΦ)	±0.8 (adjustable)					
Current THD	< 3%					
AC disconnection type	-					
System Data						
Topology	Transfomerless					
Max. efficiency	98.60%		98.80%		99.00%	
Euro efficiency	98.30%		98.40%		98.40%	98.50%
Consumption at night/ standby	< 1W / 20W					
Environment Data						
Ingress Protection	IP65					
Cooling method	Natural Convection		Cooling fans		Cooling fans	
Operating Temperature	-25℃ to 60℃					
Ambient humidity	0-100%, non-condensing					
Altitude	4000m					
Display and Communication						
Display	LED+APP (Bluetooth)				LCD+LED	
Communication	RS485 (standard) / WI-FI & GPRS (Optional)				RS485 (standard) / E-thernet & PLC (Optional)	
Mechanical Data						
Dimensions (W x H x D) (mm)	550 x 715 x 284		855 x 565 x 275		600 x 826 x 260	
Weight (kg)	53		67		65	
Safety						
Certifications	EN 61000-6, EN/IEC 62109, IEC61727, IEC 62116, IEC61683, IEEE 1547		EN 61000-6, EN/IEC 62109, IEEE 1547		EN 61000-6, EN/IEC 62109, IEC61727, IEC 62116, IEC 60068, IEC61683	

Mounting system schematic diagram

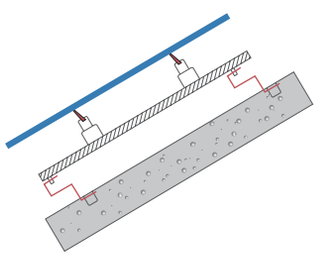
Metal Sheet Roof



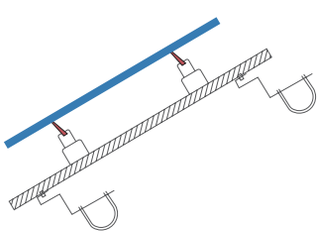
Concrete Flat Roof



Tile Roof-Hook

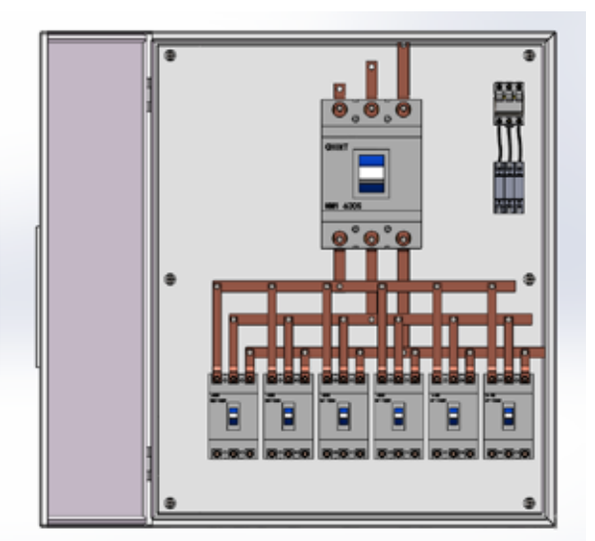


Wooden beam roof-Hoop



Cables and accessories

AC box



3.4 System Solution

1. 345Wp monocrystalline silicon PV Modules

1kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	3
CPS SCA1KTL–S	220Vac (180–280Vac), single phase, Certification: EN 61000–6, EN/ IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1–F 1*4mm^2	m	20
PV Connectors	MC4	pair	3
AC Cable	ZC–YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid–connected point.			

2kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	7
CPS SCA2KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/ IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	30
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

2.5kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	9
CPS SCA2.5KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/ IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	30
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

3kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	10
CPS SCA3KTL–S	220Vac (180–280Vac), single phase, Certification: EN 61000–6, EN/ IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1–F 1*4mm^2	m	40
PV Connectors	MC4	pair	4
AC Cable	ZC–YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid–connected point.			

3.6kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	12
CPS SCA3.6KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	40
PV Connectors	MC4	pair	4
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

5kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	16
CPS SCA5KTL-SM	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	60
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

6kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	20
CPS SCA6KTL-SM	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

6kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	20
CPS SCA6KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

8kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	28
CPS SCA8KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

10kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	34
CPS SCA10KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

12kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	40
CPS SCA12KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	100
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

15kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	52
CPS SCA15KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	160
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

17kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	60
CPS SCA17KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	40A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	160
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

20kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	68
CPS SCA20KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	40A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV-3*10+1*6mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

22kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	72
CPS SCA22KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	50A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV-3*10+1*6mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

30kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	102
CPS SCA30KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	240
PV Connectors	MC4	pair	14
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

50kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	162
CPS SCA50KTL-T/EU or CPS SCA50KTL-DO/EU-400	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	450
PV Connectors	MC4	pair	22
AC Cable	ZC-YJV 0.6/1kV -3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

60kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	198
CPS SCA60KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	125A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	500
PV Connectors	MC4	pair	30
AC Cable	ZC-YJV 0.6/1kV -3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

16kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	56
CPS SCA16KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC61683, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

18kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	60
CPS SCA18KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC61683, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

30kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	102
CPS SCA30KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, EN 61000-6, EN/IEC 62109, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	240
PV Connectors	MC4	pair	14
AC Cable	ZC-YJV 0.6/1kV-3*25+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

36kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	128
CPS SCA36KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, EN 61000-6, EN/IEC 62109, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	125A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	350
PV Connectors	MC4	pair	18
AC Cable	ZC-YJV 0.6/1kV-3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

60kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-HC 345W (158.75), Mono	pcs	198
CPS SCA60KTL-DO/EU-480	480Vac (422-528Vac), three phase, EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	500
PV Connectors	MC4	pair	24
AC Cable	ZC-YJV 0.6/1kV-3*25+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

2. 375Wp monocrystalline silicon PV Modules

1kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	3
CPS SCA1KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	20
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

2kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	6
CPS SCA2KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	30
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

2.5kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	8
CPS SCA2.5KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	30
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

3kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	10
CPS SCA3KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	40
PV Connectors	MC4	pair	4
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

3.6kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	12
CPS SCA3.6KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	40
PV Connectors	MC4	pair	4
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

5kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	16
CPS SCA5KTL-SM	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	60
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

6kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	18
CPS SCA6KTL-SM	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	60
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

8kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	24
CPS SCA8KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

10kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	30
CPS SCA10KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

12kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	36
CPS SCA12KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	100
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

15kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	48
CPS SCA15KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	160
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

17kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	52
CPS SCA17KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	40A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	160
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

20kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	60
CPS SCA20KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	40A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV-3*10+1*6mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

22kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	68
CPS SCA22KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	50A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV-3*10+1*6mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

30kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	90
CPS SCA30KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	240
PV Connectors	MC4	pair	14
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

50kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	152
CPS SCA50KTL-T/EU or CPS SCA50KTL-DO/EU-400	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	450
PV Connectors	MC4	pair	22
AC Cable	ZC-YJV 0.6/1kV -3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

60kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	180
CPS SCA60KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	125A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	500
PV Connectors	MC4	pair	30
AC Cable	ZC-YJV 0.6/1kV -3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

16kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	56
CPS SCA16KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC61683, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

18kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	60
CPS SCA18KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC61683, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connector	sMC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

30kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	96
CPS SCA30KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	240
PV Connectors	MC4	pair	14
AC Cable	ZC-YJV 0.6/1kV-3*25+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

36kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	128
CPS SCA36KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	125A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	350
PV Connectors	MC4	pair	18
AC Cable	ZC-YJV 0.6/1kV-3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

60kW			
Product model	Description	Unit	QTY
PV Modules	CHSM60M-375W (166), Mono	pcs	198
CPS SCA60KTL-DO/EU-480	480Vac (422-528Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	500
PV Connectors	MC4	pair	24
AC Cable	ZC-YJV 0.6/1kV-3*25+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

3. 410Wp monocrystalline silicon PV Modules

1kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	3
CPS SCA1KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	20
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

2kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	6
CPS SCA2KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	30
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

2.5kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	7
CPS SCA2.5KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	30
PV Connectors	MC4	pair	3
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

3kW			
Product model	Description	unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	9
CPS SCA3KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	40
PV Connectors	MC4	pair	4
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

3.6kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	10
CPS SCA3.6KTL-S	220Vac (180-280Vac), single phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	40
PV Connectors	MC4	pair	4
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

6kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	18
CPS SCA6KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	60
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV 3*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

8kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	24
CPS SCA8KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

10kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	28
CPS SCA10KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	80
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

12kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	34
CPS SCA12KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	100
PV Connectors	MC4	pair	6
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

15kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	42
CPS SCA15KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	32A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	160
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

17kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	48
CPS SCA17KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	40A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	160
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*6+1*4mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

20kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	56
CPS SCA20KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	40A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV-3*10+1*6mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

22kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	64
CPS SCA22KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	50A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV-3*10+1*6mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

30kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	85
CPS SCA30KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	240
PV Connectors	MC4	pair	14
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

50kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	144
CPS SCA50KTL-T/EU or CPS SCA50KTL-DO/EU-400	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	450
PV Connectors	MC4	pair	22
AC Cable	ZC-YJV 0.6/1kV -3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

60kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	170
CPS SCA60KTL-T/EU	400Vac (277-510Vac), three phase, Certification: EN 61000-6, EN/IEC62109, IEC 61727, 62116, IEC 60068, 61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	125A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	500
PV Connectors	MC4	pair	30
AC Cable	ZC-YJV 0.6/1kV -3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

16kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	44
CPS SCA16KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC61683, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

18kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	52
CPS SCA18KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC61683, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	63A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	180
PV Connectors	MC4	pair	10
AC Cable	ZC-YJV 0.6/1kV -3*16+1*10mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

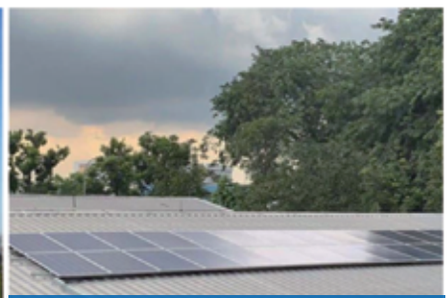
30kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	84
CPS SCA30KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	240
PV Connectors	MC4	pair	14
AC Cable	ZC-YJV 0.6/1kV-3*25+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

36kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	102
CPS SCA36KTL-T/SA	208Vac/220Vac (150-300Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEEE1547	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	125A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	350
PV Connectors	MC4	pair	18
AC Cable	ZC-YJV 0.6/1kV-3*35+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

60kW			
Product model	Description	Unit	QTY
PV Modules	CHSM72M-HC-410Wp (158.75), Mono	pcs	170
CPS SCA60KTL-DO/EU-480	480Vac (422-528Vac), three phase, Certification: EN 61000-6, EN/IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC61683	pcs	1
Mounting Structure	metal sheet roof, flat installation, aluminum alloy	set	1
AC Box	100A, 40kA (without meter, reserved meter position)	set	1
PV DC cable	PV1-F 1*4mm^2	m	500
PV Connectors	MC4	pair	24
AC Cable	ZC-YJV 0.6/1kV-3*25+1*16mm^2	m	40
Notes: Suppose the building elevation is 15 meters and the PV power station is about 30 meters away from the grid-connected point.			

3.5. Project reference

France Grosdenier 243 kW Rooftop Project



Singapore 10 kW Project

Japan Kumenan 100 kW Project

Ghana 10 kW PV System

Brazil Natal Project

Thailand Saraburi Project

Brazil Roof PV Project

Date: 2019-12
Address: Nepal
Customer name: HIM Electronics Private Limited
Capacity: 160 kW Rooftop PV Power Plant

Date: 2019-07
Address: Dubai
Customer name: NAFFCO
Capacity: 1.5 MW Rooftop PV Power Plant

Date: 2019-06
Address: Saudi Arabia
Customer name: Saudi Arabia Ministry of Energy
Capacity: 350 kW Rooftop PV Power Plant

Date: Under construction
Address: Kumasi, Ghan
Customer name: Premium Food Limited
Capacity: 2 MW Ground PV Power Plant

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