SOLARC NEW ENERGY

PV Combiner Box and Distribution Cabinet Manual

One-Stop Supporting Services of the PV Center

WENZHOU SOLARC NEW ENERGY CO.,LTD.

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Scan the QR code to learn

If there are any changes in product size and parameters, the latest instructions will prevail without further notice.

CONTENTS

ABOUT US

Company Profile

Wenzhou Solarc New Energy Technology Co., Ltd. is a high-tech enterprise specializing in the new energy field, integrating research and development, production, sales, and services. Equipped with a modern production base and a team of professional technicians, the company boasts strong production capabilities and R&D strength. We are committed to providing global customers with efficient and reliable photovoltaic system solutions to contribute to the development of the new energy industry.

CORPORATE CULTURE

Innovation: We focus on technological innovation, invest in resources, and improve product performance and quality to meet and exceed expectations.

Quality: We always prioritize product quality, strictly controlling the production process to ensure that each product meets high-quality standards.

Service: We offer comprehensive pre-sales, in-sales, and after-sales services to our customers, promptly addressing any issues they encounter during use and establishing long-term, stable cooperative relationships.

Corporate Development Vision

We are committed to a customer-centric and market-oriented approach, emphasizing technological innovation and continuous product upgrades. Our goal is to establish ourselves as a leading enterprise in the field of new energy, delivering high-quality products and services to users worldwide, and contributing to the advancement of the new energy industry.

Corporate Strengths

Technological Leadership: We have a dedicated professional technical team focused on core technologies and systems, ensuring that our products are at the forefront of the industry in terms of performance and reliability.

Quality Reliability: We have a strict quality management system. From raw material procurement to finished product delivery, everything undergoes rigorous testing to ensure the high quality of our products.

Comprehensive Service: We offer a comprehensive after-sales service system that provides timely and efficient technical support and after-sales service to our customers, addressing their concerns.use and establishing long-term, stable cooperative relationships.

PRODUCT DISPLAY CASE

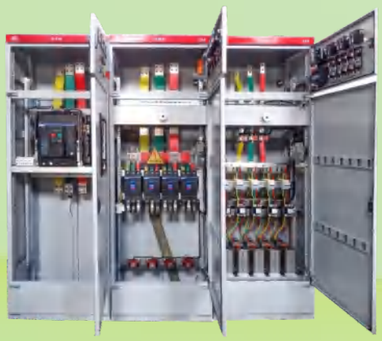
Support diversified customization requirements







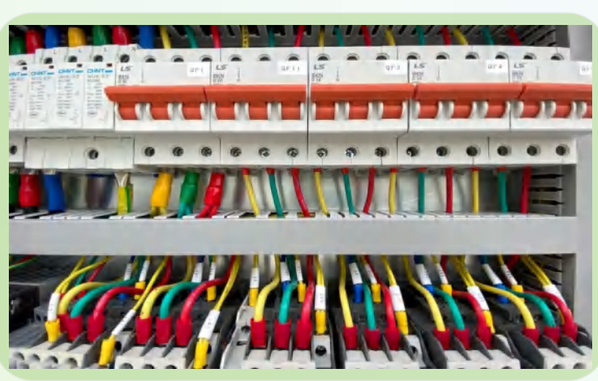


PRODUCT DISPLAY CASE

Support diversified customization requirements



Product Introduction

Product Overview

For large-scale grid-connected photovoltaic (PV) power generation systems, installing a PV combiner box between the PV modules and inverters is typically essential. This installation reduces the number of connecting cables, facilitates maintenance, and enhances system reliability.

Our company's PV combiner box is specifically designed to meet these requirements and can be integrated with PV inverters to form a complete PV power generation solution. By consolidating the PV array through the combiner box, the number of cables between the PV strings and the inverter is reduced, thereby lowering system costs and improving reliability.

The use of a PV combiner box allows users to group a certain number of identical PV modules into a PV array according to the DC voltage range required by the inverter input. Multiple strings can be connected to the combiner box, and the output can be routed through a surge protector and circuit breaker, facilitating the connection to a centralized inverter.

The PV combiner box has the following features:

- It supports multiple PV strings simultaneously, each equipped with a fuse.
- It includes a high-voltage surge protector specifically designed for PV applications, offering surge protection for both the positive and negative poles.
- It utilizes circuit breakers designed for PV applications.
- It enables real-time monitoring of current and voltage for each string, as well as the status of the circuit breaker and surge protector. Data can be communicated via RS485, and the status can be observed at the backend monitoring center.
- It is suitable for outdoor installation with an IP65 protection rating.

Model Description

S	C	P/M	M	—	X/Y	D
Company Code	Combiner Box	Material	Monitor		Number of Input/Output	Diode
SOLARC NEW ENERGY	C:Combiner Box	M:Metal P:Plastic	M:Monitor None:Without Monitor		X:Input Y:Output	D:Diode None:Without Diode

OUR PRODUCTS

PV Combiner Box

Offering OEM Customization

TECHNICAL PARAMETER

Model	SCP-2/1	SCP-4/2	SCP-6/3
Electrical Parameters			
Max Input Voltage	1000VDC/1500VDC		
Max Number of Input Circuits	2	4	6
Rated Current of Fuse	20A/25A/30A	20A/25A/30A	20A/25A/30A
Max Number of Output Circuits	1	2	3
Max Switch Output Current	63A	63A	63A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
Power Supply Mode of Monitoring Device	Photovoltaic Self-Power Supply/Optional Equipment		
Communication Mode Protocol	RS485/Optional Equipment		
General Parameters			
Enclosure Material	PC/ABS/SPCC/SS		
Dimensions(W*H*D)	280*230*120mm	280*393*120mm	388*393*120mm
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted		

OUR PRODUCTS

PV Combiner Box

Offering OEM Customization

TECHNICAL PARAMETER

Model	SCM-12/1	SCM-14/1	SCM-16/1
Electrical Parameters			
Max Input Voltage	1000VDC/1500VDC		
Max Number of Input Circuits	12	14	16
Rated Current of Fuse	20A/25A/30A	20A/25A/30A	20A/25A/30A
Max Number of Output Circuits	1	2	3
Max Switch Output Current	400A	500A	500A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
Power Supply Mode of Monitoring Device	Photovoltaic Self-Power Supply/Optional Equipment		
Communication Mode Protocol	RS485/Optional Equipment		
General Parameters			
Enclosure Material	PC/ABS/SPCC/SS		
Dimensions(W*H*D)	430*530*230mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted		

OUR PRODUCTS

PV Combiner Box

Offering OEM Customization

TECHNICAL PARAMETER

Model	SCMM-12/1	SCMM-14/1	SCMM-16/1
Electrical Parameters			
Max Input Voltage	1000VDC/1500VDC		
Max Number of Input Circuits	12	14	16
Rated Current of Fuse	20A/25A/30A	20A/25A/30A	20A/25A/30A
Max Number of Output Circuits	1	2	3
Max Switch Output Current	400A	500A	500A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
Power Supply Mode of Monitoring Device	Photovoltaic Self-Power Supply/Optional Equipment		
Communication Mode Protocol	RS485/Optional Equipment		
General Parameters			
Enclosure Material	PC/ABS/SPCC/SS		
Dimensions(W*H*D)	650*800*200mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted		

OUR PRODUCTS

AFCI PV
Combiner Box
Offering OEM Customization

TECHNICAL PARAMETER

Model	SCMM-4/4	SCMM-8/8	SCMM-12/12
Electrical Parameters			
Max Input Voltage	1000VDC/1500VDC		
Max Number of Input Circuits	4	8	12
Rated Current of Fuse	15A/20A	15A/20A	15A/20A
Max Number of Output Circuits	4	8	12
Max Switch Output Current	20A	20A	20A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
Power Supply Mode of Monitoring Device	100-240VAC,50-60Hz		
Communication Mode Protocol	Rs485		
General Parameters			
Enclosure Material	PC/ABS/SPCC/SS		
Dimensions(W*H*D)	600*650*180mm	700*950*180mm	850*950*180mm
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted		

Product Introduction

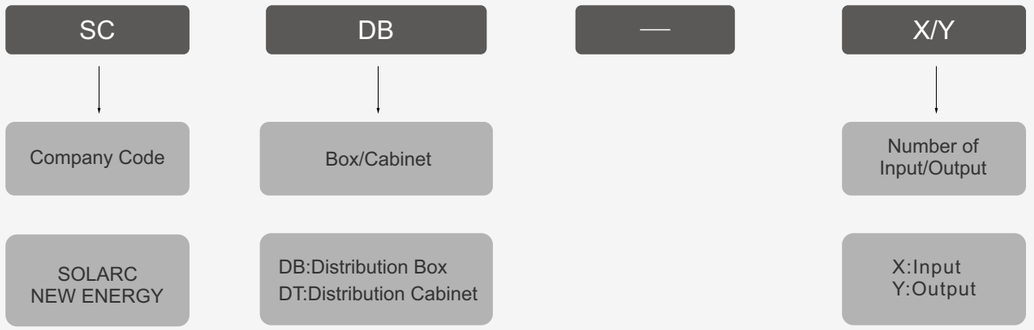
Product Overview

The SCDB PV AC Distribution Cabinet is an essential component in photovoltaic (PV) string inverter power generation systems, designed to provide power protection between string inverters and AC distribution cabinets or step-up transformers. By consolidating the output currents from multiple inverters, this device simplifies the wiring between string inverters and step-up transformers, thereby enhancing system reliability and facilitating maintenance.

The AC distribution box/cabinet has the following features:

- High Protection Rating: The cabinet achieves an IP65 protection rating, offering protection against water ingress, dust, ultraviolet radiation, and salt fog corrosion, thus meeting the requirements for outdoor installation.
- Multiple Input Channels: It can simultaneously connect to multiple outputs from string inverters, with each input line protected by a thermal-magnetic circuit breaker, and the rated voltage reaching up to AC 1140V.
- Intelligent Monitoring: Equipped with an integrated meter for data acquisition, it enables local or remote data monitoring via the RS485/ModBus-RTU communication protocol.
- High-Voltage Lightning Protection: It is fitted with a dedicated high-voltage surge arrester to provide overvoltage and lightning protection between three phases, with a working voltage of above AC 1140V.

Model Description



OUR PRODUCTS

AC Distribution Box

Offering OEM Customization

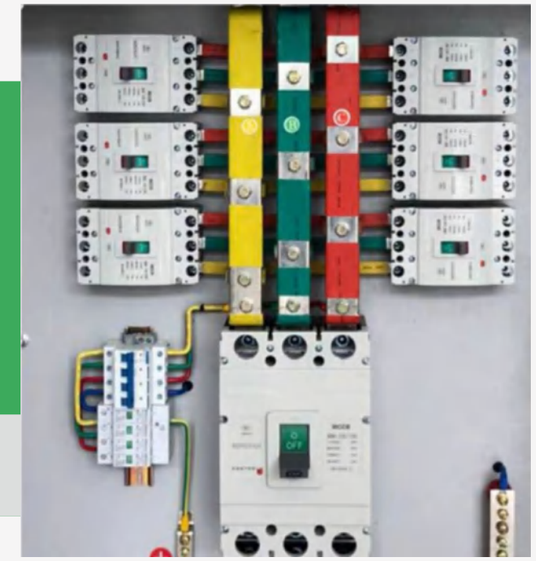
TECHNICAL PARAMETER

Model	SCDB-1/1	SCDB-1/1	SCDB-2/1
Electrical Parameters			
Rated Voltage	230VC/400VAC		
Insulation Voltage	690VAC		
Frequency	50Hz/60Hz		
Max Number of Input Circuits	1	1	2
Rated Current	25A/32A	25A/32A/40A/50A/63A	25A/32A/40A /50A
Max Number of Output Circuits	1	1	1
Max Switch Output Current	63A	63A	125A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
General Parameters			
Enclosure Material	PC/ABS/SPCC/SS		
Dimensions(W*H*D)	352*230*120mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted		

OUR PRODUCTS

AC Combiner Box

Offering OEM Customization



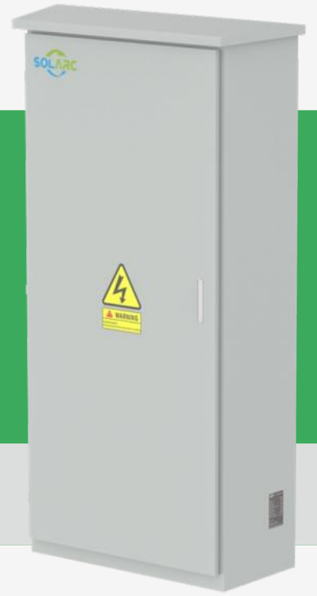
TECHNICAL PARAMETER

Model	SCDB-4/1	SCDB-5/1	SCDB-6/1
Electrical Parameters			
Rated Voltage	400VAC/690VAC		
Insulation Voltage	1000VAC		
Frequency	50Hz/60Hz		
Max Number of Input Circuits	4	5	6
Rated Current	100A/125A	50A/63A	63A/80A
Max Number of Output Circuits	1	1	1
Max Switch Output Current	500A	350A	500A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
General Parameters			
Enclosure Material	PC/ABS/SPCC/SS		
Dimensions(W*H*D)	352*230*120mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted		

OUR PRODUCTS

AC Distribution Cabinet

Offering OEM Customization



TECHNICAL PARAMETER

Model	SCDT-2/1	SCDT-4/1	SCDT-6/1
Electrical Parameters			
Rated Voltage	230VC/400VAC/600VAC/690VAC/800VAC/1140VAC		
Insulation Voltage	1140VAC		
Frequency	50Hz/60Hz		
Max Number of Input Circuits	2	4	6
Rated Current	80A/125A	125A/160A	160A/250A
Max Number of Output Circuits	1	1	1
Max Switch Output Current	250A	630A	1600A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
General Parameters			
Enclosure Material	SPCC/SS		
Dimensions(W*H*D)	400*600*200mm	800*1600*400mm	800*2000*800mm
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted/Floor Stand		

Product Introduction

Product Overview

The XL-21 power distribution cabinet is used in power plants and industrial and mining enterprises, serving as a power or lighting distribution unit in three-phase AC systems with voltages below 500V, including three-phase three-wire, three-phase four-wire, and three-phase five-wire configurations. The system is wall-mounted, with front operation and inspection capabilities. The cabinet is fully enclosed, assembled from C-shaped or 8MF profile materials. It features a new type of rotating arc-extinguishing switch that can handle load operations. On the front panel, there are voltage and current indicators, as well as signal lights, buttons, and conversion switches, which are the main control components.

The XL-21 power distribution cabinet has the following features:

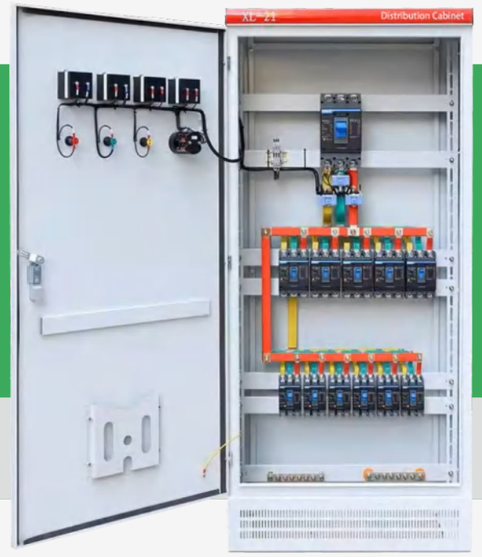
- Function Integration:The power distribution cabinet integrates the introduction, distribution, and control of power supply within a single enclosure, facilitating management and maintenance.
- High Protection Level:Typically features a high degree of protection (such as IP40 or higher), which prevents the ingress of dust, foreign objects, and accidental contact with live parts.
- Overload and Short Circuit Protection:Equipped with protective devices such as circuit breakers and fuses, effectively preventing overload and short circuit faults, safeguarding equipment and personnel safety.
- High-Quality Components:Utilizes high-quality electrical components, such as circuit breakers, contactors, and relays, ensuring reliable operation of the equipment.
- Intuitive Interface: Equipped with indicator lights, meters, and operation buttons, allowing operators to intuitively understand the equipment status and perform operations.

Model Description

OUR PRODUCTS

XL-21 power distribution cabinet

Offering OEM Customization



TECHNICAL PARAMETER

Model	XL-21		
Electrical Parameters			
Rated Voltage	400VAC/690VAC		
Insulation Voltage	1000VAC		
Frequency	50Hz/60Hz		
Max Number of Output Circuits	4	10	6
Rated Current	100A/125A	50A/63A	100A/125A
Max Number of Input Circuits	1	1	1
Max Switch Input Current	500A	630A	800A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
General Parameters			
Enclosure Material	SPCC/SS		
Dimensions(W*H*D)	800*1800*400mm		
Protection Level	Ip30		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Floor Stand		

Product Introduction

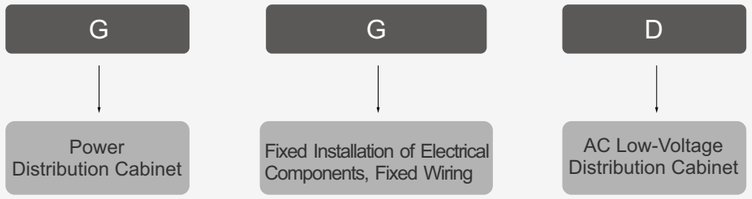
Product Overview

The GGD type AC low-voltage distribution cabinet is suitable for power distribution systems of power plants, substations, industrial and mining enterprises, and other electrical users with an AC frequency of 50Hz, a rated operating voltage of 380V, and a rated operating current up to 3150A. It is used for the conversion, distribution, and control of electrical energy for power, lighting, and distribution equipment.The product features high breaking capacity, good dynamic and thermal stability, flexible electrical schemes, convenient combination, a range of series, strong practicality, innovative structure, and protection level characteristics, making it suitable for use as an updated replacement for low-voltage complete switchgear equipment.

The GGD type AC low-voltage distribution cabinet the following features:

- Safety: The design complies with safety standards, providing reliable electrical protection.
- Economy:It offers high cost-effectiveness, suitable for a variety of power users and design requirements.
- Rationality:The structural design is rational, facilitating easy installation and maintenance.
- Reliability: Equipped with high-quality electrical components to ensure stable operation.
- Breaking Capacity:It features high breaking capacity to safeguard circuit safety.
- Flexibility:The electrical schemes are flexible and can be combined according to different needs.
- Practicality: It is highly practical and applicable to various working environments.
- Innovative Structure:Adopts a new structural design with an aesthetically pleasing appearance.
- Protection Level:Typically has a high level of protection, such as IP30.

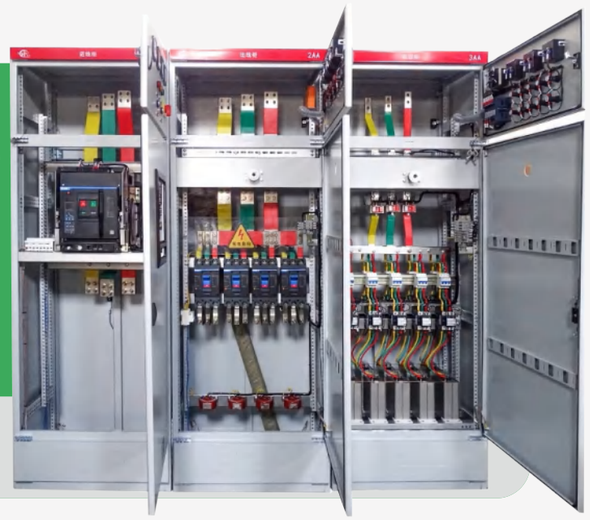
Model Description



OUR PRODUCTS

GGD type AC low-voltage distribution cabinet

Offering OEM Customization



TECHNICAL PARAMETER

Model	GGD		
Electrical Parameters			
Rated Voltage	400VAC/690VAC		
Insulation Voltage	1000VAC		
Frequency	50Hz/60Hz		
Max Number of Output Circuits	10	6	5
Rated Current	200A/250A	250A/400A	400A/630A
Max Number of Input Circuits	1	1	1
Max Switch Input Current	2000A	2500	3150A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
General Parameters			
Enclosure Material	SPCC		
Dimensions(W*H*D)	1000*2200*1000mm		
Protection Level	Ip40		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Floor Stand		

Product Introduction

Product Overview

The MNS type low-voltage draw-out switchgear (hereinafter referred to as the switchgear) consists of standardized, integrated series modules, and the drawers are equipped with reliable mechanical interlocking devices, making it safer and more reliable for users. This switchgear is suitable for AC power supply systems with a frequency of 50(60)Hz, a rated operating voltage of 400V or 660V, and a rated current of 5000A or less, in a three-phase five-wire configuration. It can be used in power plants, substations, industrial and mining enterprises, large buildings, hotels, airports, docks, as well as communication centers such as radio and television stations, for the control of power generation, power transmission and distribution, electrical energy conversion, and electrical energy consumption equipment. Additionally, it can perform reactive power compensation on its main busbar through a capacitor compensation cabinet.

The MNS type low-voltage draw-out switchgear has the following features:

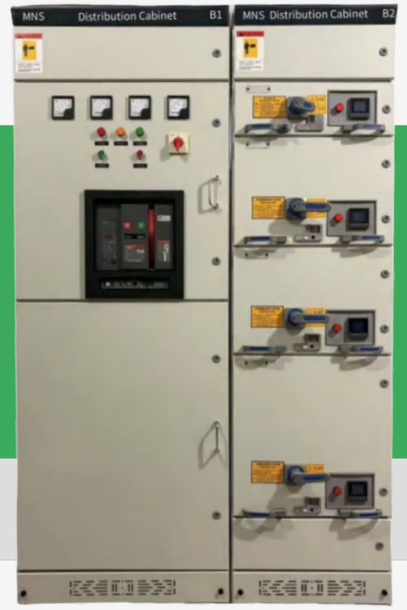
- Modular Design: Composed of standardized, integrated modules for easy expansion and maintenance.
- Mechanical Interlocking: The drawer structure is equipped with reliable mechanical interlocking devices to enhance operational safety.
- Wide Applicability: Suitable for a variety of voltage and current levels, including 400V and 660V, with a rated current up to 5000A, applicable to three-phase five-wire power systems.
- Reactive Power Compensation: Achieves reactive power compensation on the main busbar through a capacitor compensation cabinet, improving power quality.
- Safety and Reliability: The design complies with international and national standards, ensuring safety and reliability during use.
- Flexibility: The electrical schemes are flexible and can be customized to meet different user requirements.
- Easy Maintenance: The modular structure facilitates easier and more convenient maintenance and component replacement.

Model Description

OUR PRODUCTS

MNS type low-voltage draw-out switchgear

Offering OEM Customization



TECHNICAL PARAMETER

Model	MNS		
Electrical Parameters			
Rated Voltage	400VAC/690VAC		
Insulation Voltage	1000VAC		
Frequency	50Hz/60Hz		
Max Number of Output Circuits	12	10	8
Rated Current	200A/250A	250A/400A	400A/630A
Max Number of Input Circuits	1	1	1
Max Switch Input Current	3000A	4000	5000A
Surge Protective Device	T2/T1+2,In=20KA,Imax=40KA		
General Parameters			
Enclosure Material	SPCC		
Dimensions(W*H*D)	1000*2200*1000mm		
Protection Level	Ip40		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Floor Stand		

Installation and Use

a. Inspect and adjust each component inside the cabinet (such as circuit breakers) for any damage, ensure the interior of the cabinet is clean, and check if any installation screws are loose.
b. Check if the operating mechanism of the components is flexible, and there should be no jamming or excessive force required for operation.
c. The operation of both the draw-out and fixed cabinets should be flexible, light, and free of obstruction or collision.
d. All busbar connections should be good, and the insulation supports, mounting parts, and other accessories should be securely and reliably installed.

Precautions for Use

a. The equipment should not be installed against a wall. For low-voltage distribution cabinets that are operated from the front and maintained from both sides, the maintenance passage should have a protective door, which can only be accessed or opened by qualified professionals who have passed assessment.
b. Before operation, first check whether the switchgear is intact to prevent short circuit accidents caused by small animals crawling inside the cabinet.
d. After installation and maintenance, strictly check the isolation status between various compartments and functional units to ensure the good functional separation of this device and prevent the expansion of faults.

Order Instructions

When placing an order, customers should provide:

- The main circuit configuration diagram and layout plan, specifying the rated working voltage, rated working current, and the necessary technical parameters for the protective devices and circuit breakers.
- The specifications of the incoming and outgoing cable sizes.
- The model, specifications, and quantities of the main electrical components inside the switchgear.
- If busbars or bus ducts are required between switchgear or for incoming lines, the specific requirements such as span, height above ground, etc., should be clearly stated.
- If the switchgear is to be used under special environmental conditions, this should be detailed at the time of ordering.
- Any specific requirements for the color of the switchgear's exterior and other particular needs.

Product Introduction

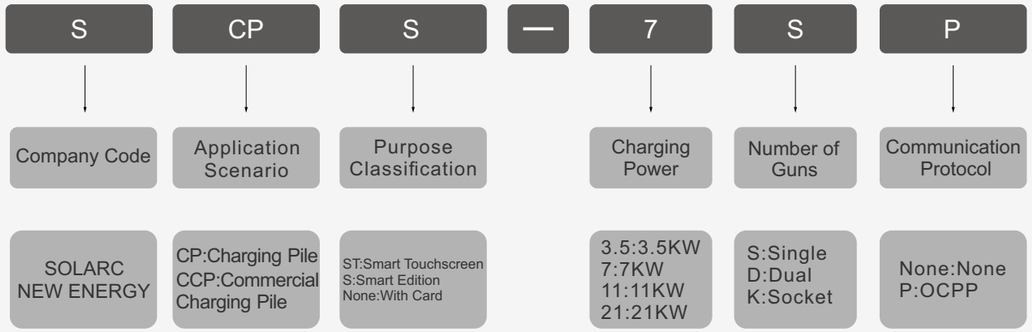
Product Overview

The SCP-21S AC charging station is equipped with a high-precision metering module. It is suitable for both residential and commercial use, and can be paired with a network communication module to connect to a management platform based on the Open Charge Point Protocol (OCPP). It supports plug-and-charge, scheduled charging, card swiping, QR code scanning, Bluetooth connection, Wi-Fi connection, and 4G connection for charging initiation. The charging station integrates various protective functions, including emergency stop detection, door opening detection, overvoltage, undervoltage, overcurrent, undercurrent, CP pin breakage, and CP grounding protection, and is committed to providing users with high-quality charging solutions.

The AC charging pile has the following features:

- Power Supply Conditions: 220V/380V ±10%, frequency 50Hz/60Hz.
- Output Power: Available in multiple power options, including 7kW, 11kW, and 21kW.
- Communication Methods: Equipped with 485 and 232 communication interfaces, supporting a variety of communication protocols.
- Protection Rating: Achieves IP65 rating, offering excellent water and dust resistance.
- Environmental Conditions: Suitable for a temperature range of -20°C to 60°C, relative humidity of 5% to 95%, and an altitude of up to 2000 meters.

Model Description



Note:
Smart Edition: Includes Bluetooth and Wi-Fi functionality by default.
OCPP Edition: Includes Bluetooth, Wi-Fi, 4G, and Ethernet functionalities by default.

OUR PRODUCTS

TECHNICAL PARAMETER

Model	SCPS-7S	SCPS-11S	SCPS-21S
Electrical Parameters			
Rated Voltage	220VAC±10%	380VAC±10%	380VAC±10%
Frequency	50Hz/60Hz		
Input Current	0~16A	0~16A	0~32A
Rated Power	7KW	11KW	21KW
External Meter Interface	Supported Rs485 Communication Protocol		
Leakage Detection	Optional Type A+DC6mA		
Network Communication Interface	Optional,Ethernet/4G/Bluetooth/Wifi		
General Parameters			
Style and Color	JK Style/White / Red / Silver / Blue Gray / Gray / Lake Green		
Enclosure Material	PC		
Dimensions(W*H*D)	200*300*120mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted/Floor Stand		

OUR PRODUCTS

AC Charging Pile

QQ Style

Offering OEM Customization

TECHNICAL PARAMETER

Model	SCPS-7S	SCPS-11S	SCPS-21S
Electrical Parameters			
Rated Voltage	220VAC±10%	380VAC±10%	380VAC±10%
Frequency	50Hz/60Hz		
Input Current	0~16A	0~16A	0~32A
Rated Power	7KW	11KW	21KW
External Meter Interface	Supported Rs485 Communication Protocol		
Leakage Detection	Optional Type A+DC6mA		
Network Communication Interface	Optional,Ethernet/4G/Bluetooth/Wifi		
General Parameters			
Style and Color	QQ Style/White / Red / Silver / Blue Gray / Gray / Lake Green		
Enclosure Material	PC		
Dimensions(W*H*D)	230*215*123mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted/Floor Stand		

OUR PRODUCTS

AC Charging Pile

CC Style

Offering OEM Customization

TECHNICAL PARAMETER

Model	SCPS-7S	SCPS-11S	SCPS-21S
Electrical Parameters			
Rated Voltage	220VAC±10%	380VAC±10%	380VAC±10%
Frequency	50Hz/60Hz		
Input Current	0~16A	0~16A	0~32A
Rated Power	7KW	11KW	21KW
External Meter Interface	Supported Rs485 Communication Protocol		
Leakage Detection	Optional Type A+DC6mA		
Network Communication Interface	Optional,Ethernet/4G/Bluetooth/Wifi		
General Parameters			
Style and Color	CC Style/White / Red / Silver / Blue Gray / Gray / Lake Green		
Enclosure Material	PC		
Dimensions(W*H*D)	200*300*120mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted/Floor Stand		

Product Introduction

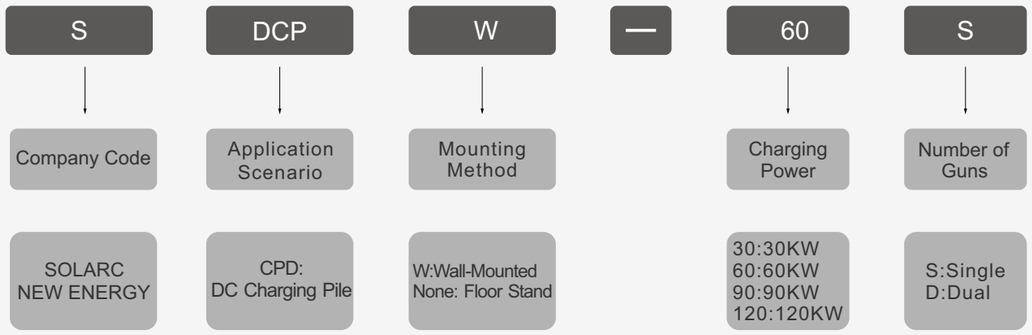
Product Overview

The SDCP-120D DC Charging Pile features a user-friendly human-machine interface for convenient operation and modular design for easy long-term maintenance. It is designed with an IP54 protection level, real-time gun temperature monitoring, and an intelligent air cooling system to ensure the safety and reliability of the charging process. The charging pile supports a wide voltage compatibility design, compatible with 800V high-voltage platforms, and supports a maximum output voltage platform of 1000V, with a constant power range of 300Vdc to 1000Vdc. It is equipped with online visualization dashboards, remote control and maintenance, fault prediction, and automated operation and maintenance for safety monitoring and maintenance, ensuring the smooth operation of the equipment through real-time online inspections.

The AC charging pile has the following features:

- Power Supply Conditions: 220V/380±20%, frequency 50Hz/60Hz.
- Output Power: Offers multiple power options including 30kW, 60kW, 90kW, and 120kW.
- Communication Methods: Equipped with 485, 232, and CAN communication interfaces, supporting various communication protocols.
- Communication Functions: Supports four types of network connections: Ethernet, 4G, Bluetooth, and Wi-Fi, with backend communication capabilities. It allows remote monitoring of the main control board through the backend and supports the OCPP1.6 protocol.
- l Activation Methods: Supports multiple activation methods including VIN code red dot, card swiping, QR code scanning, and scheduled charging.
- l Protection Level: Achieves an IP54 rating, offering good waterproof and dustproof performance.
- l Environmental Conditions: Adapts to a temperature range of -40℃ to 85℃, relative humidity of 5% to 95%, and an altitude of ≤2000m.

Model Description



OUR PRODUCTS

DC Charging Pile

Offering OEM Customization

TECHNICAL PARAMETER

Model	SDCP-60D	SDCP-90D	SDCP-120D
Electrical Parameters			
Rated Voltage/Frequency	380VAC±20%/50Hz/60Hz		
Max Input Current	0~120A	0~180A	0~250A
Rated Power	30KW	90KW	120KW
Output Volatage Range	200V-1000VDC		
Max Output Current Range	250A		
Interaction Methods	Rated efficiency > 95%, Maximum efficiency > 96%		
Efficiency	Scanning/Swipe Card/7-inch LCD Display/Optional screen size of 7 inches or larger		
Network Communication Interface	Default 4G and Ethernet, Bluetooth and Wi-Fi are optional		
General Parameters			
Enclosure Material	SPCC/SS		
Dimensions(W*H*D)	750*1800*520mm		
Protection Level	IP65		
Operating Temperature/Humidity	Operating Temperature:-20℃~+60℃ Humidity:0-95%		
Altitude	≤2000m		
Mounting Method	Wall-Mounted/Floor Stand		