



SUNGROW

C&I PV Plant System Solutions

Clean power for your business, solutions for Reaching Your Net Zero Goals



Enjoy the power, Enjoy the value.

Meeting the new SGCX series,

SGCX-P2 series enjoy MORE POWER. SAFETY. FRIENDLY.

Takes
power
further
than ever

CX-P2 SERIES INVERTERS

SUNGROW



Maximize your PV modules

Generate the most energy possible, the new SGCX-P2 series solution can access more PV modules with a Multi-MPPT design, 15A compatible with high power modules, and enjoy more sunshine time with a wide voltage range, all running through power MAX to improve PV work efficiency.

Access more PV modules

Multi-MPPT design, up to 12MPPTs.

2 Strings per MPPT to access more PV modules to get more energy yields.

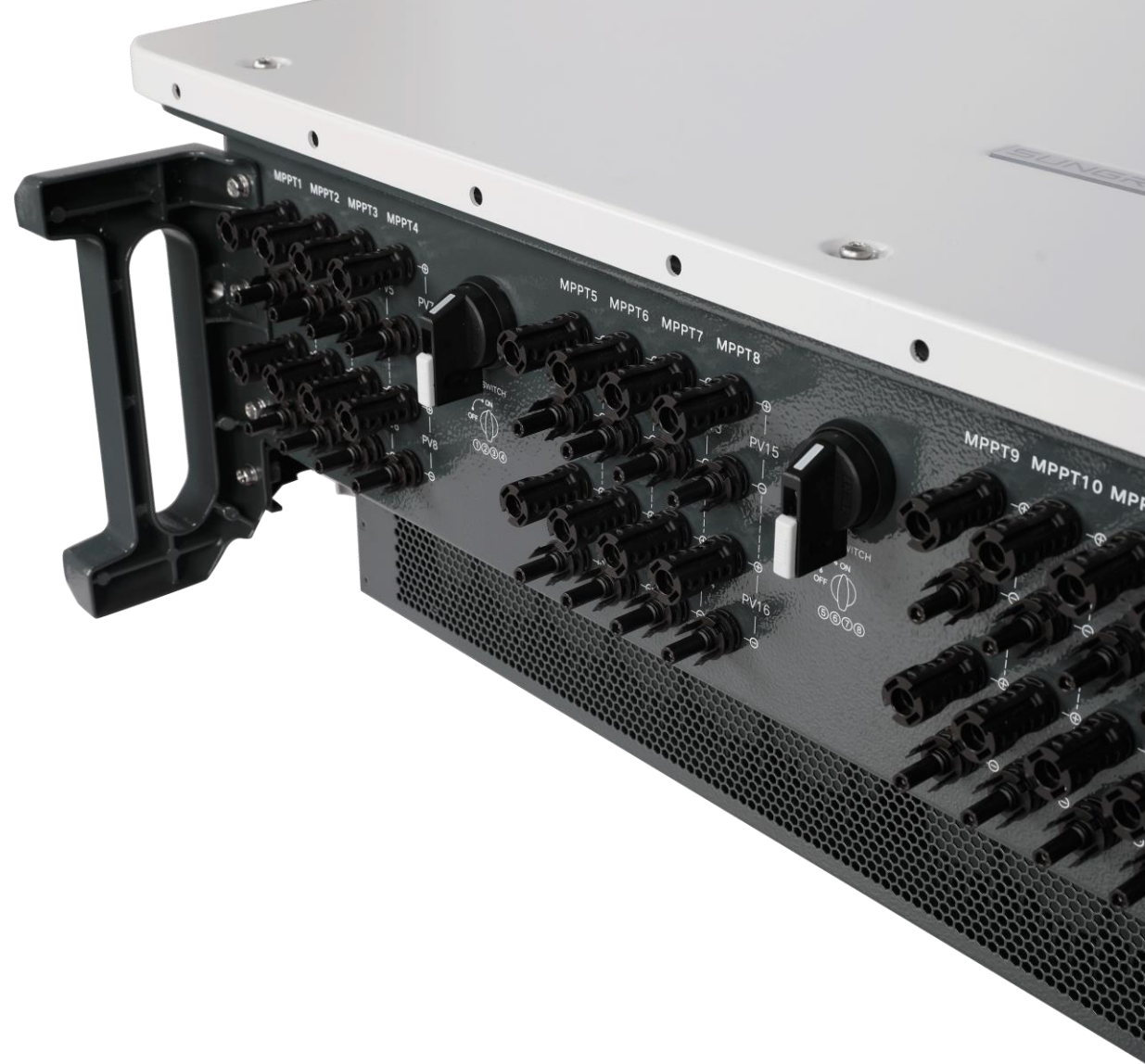
Up to 150% DC Oversizing design

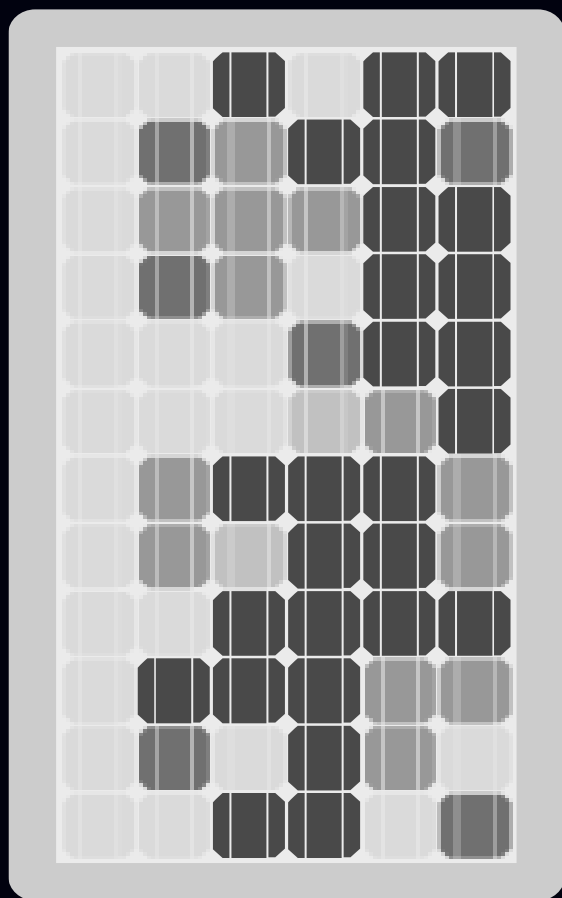
Compatible with higher power modules

15A Max. PV string current to compatible with high power modules.

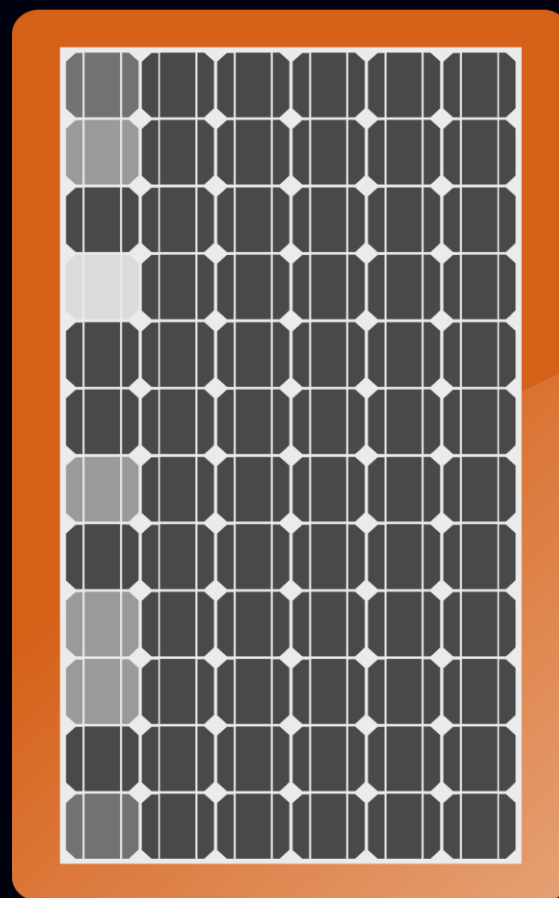
Enjoy more sunshine time

The wider voltage range, 180V-1000V¹ input range, starts earlier in the morning and stop later at night, which means the inverter can work longer and generate more power.





Before recovery



After recovery

Always keep the best performance of PV modules

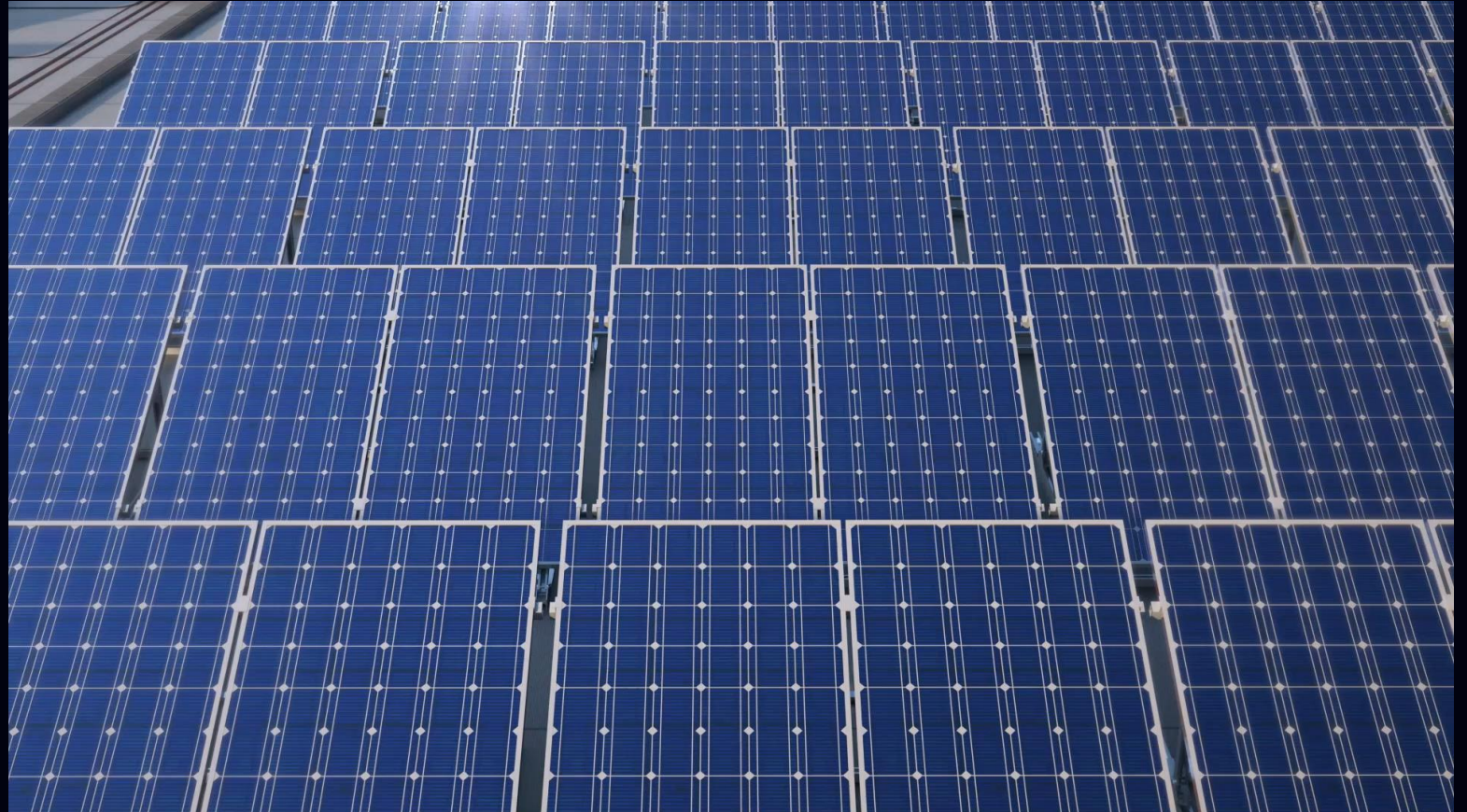
Night PID Recovery

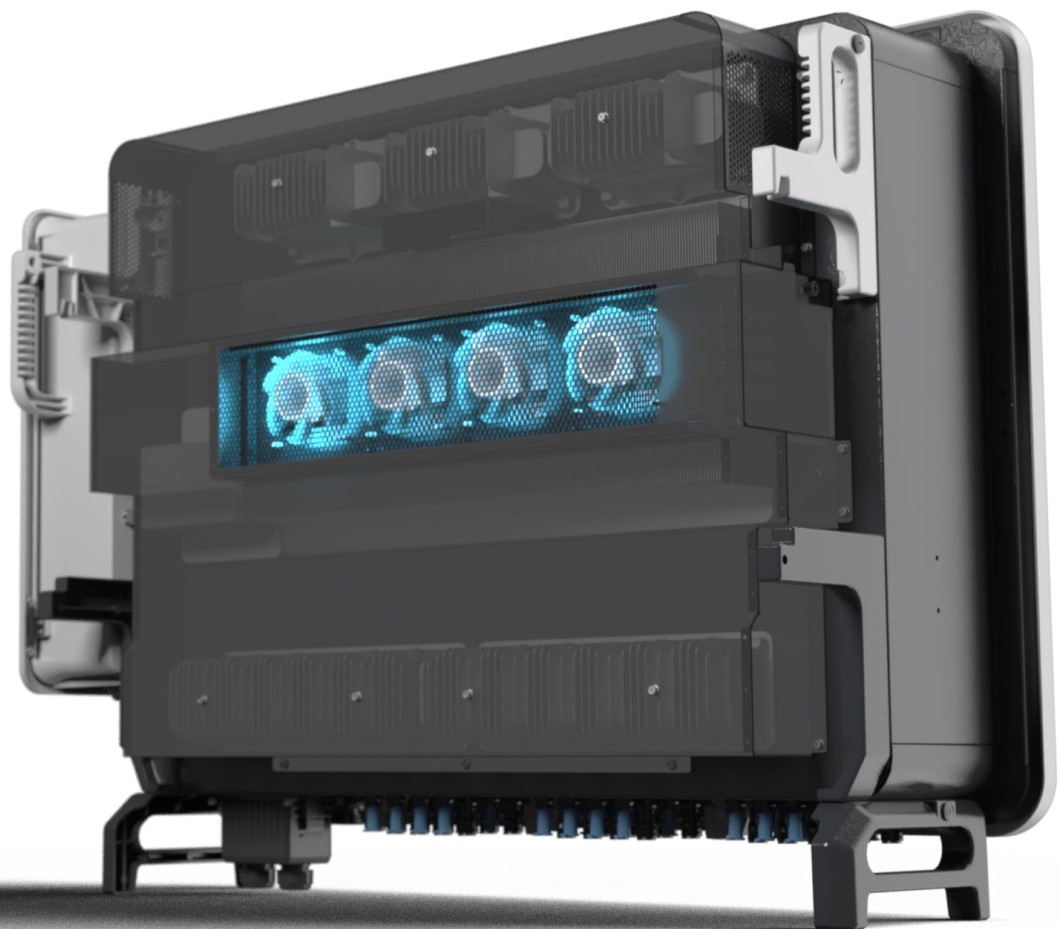
Generation loss due to the PID effect is a common phenomenon when a solar system is in operation. CX-P2 through Night PID Recovery a reverse voltage is imposed to the DC side of the inverter at night (when no AC output) to redirect the lost ions back to the glass plate and frame, the performance of solar modules in the solar systems can be effectively recovered and further degradation prevented.

Power MAX

Global MPPT Tracking in shadow

In the case of shadow occlusion, Sungrow solution finds the exact maximum power point with full PV curve scanning and algorithm optimization and increases power generation.





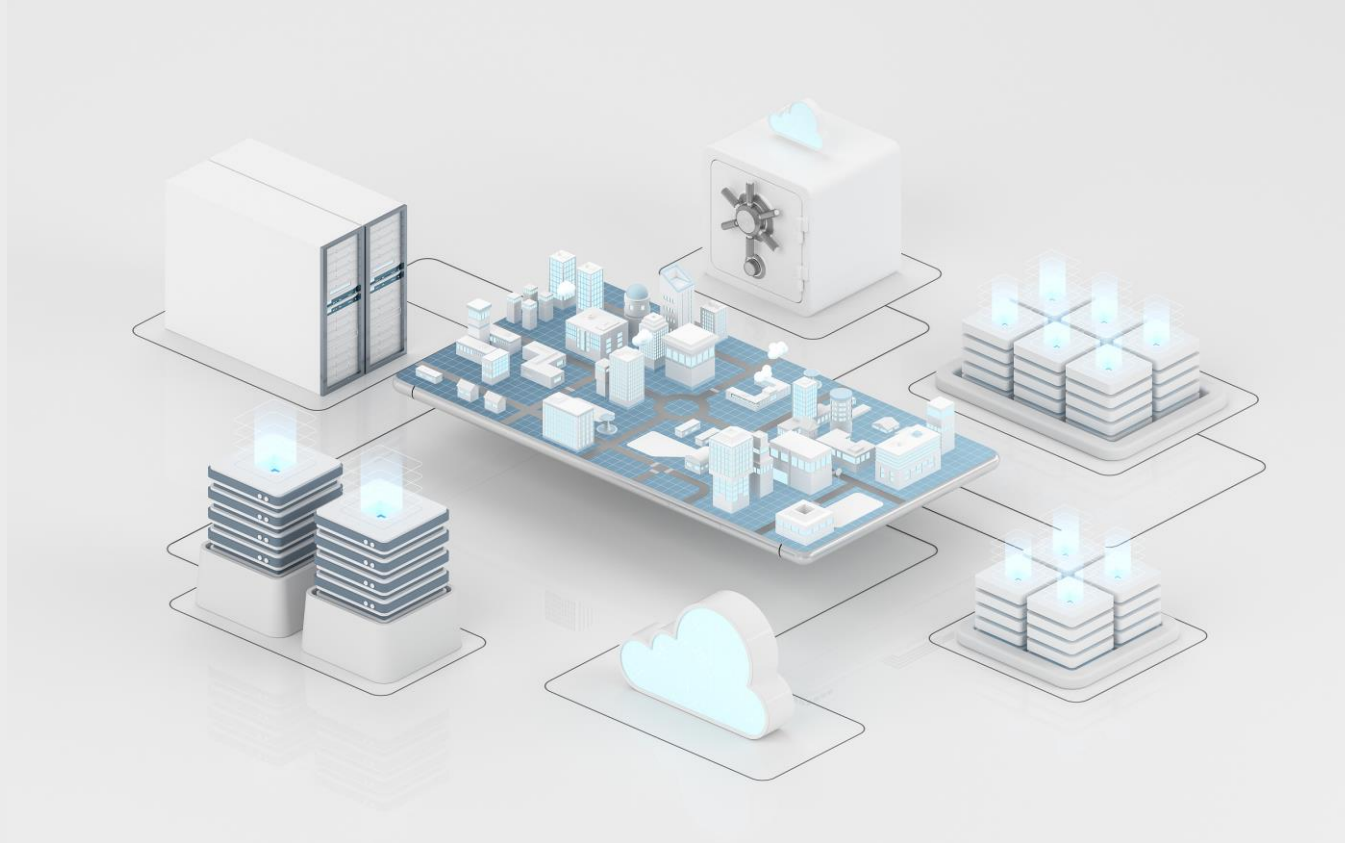
Cool down, Power up.

Active Smart Cooling System

Active Smart Cooling System, by sensing the internal temperature, adjusts the speed automatically to keep the inverter operating at the ideal temperature and maintain power efficiency.

The system has ceramic bearings that spin so much smoother and quieter in a separate cooling chamber, that is both durable and powerful.

Plug & play for O&M within 1 min.



Safety

is what we really care about.

First, keeps its own safety with a tough protective barrier, that's enough face to any surroundings.

Including a built-in smart controller so that, in the event of an emergency, PV input can be turned off instantly and easily, taking control at any time, to keep all solar systems and your property safe.

Tougher than tough.

SGCX-P2 is IP66 rated with C5 anti-corrosion, meaning it is safe enough to endure about anything from Nature. The materials used in Aluminum alloy, and the One-piece structure make it incredibly durable with high strength and good wear resistance. The surface adopts a powder spraying process, anti-ultraviolet long-term exposure, anti-scratch, anti-corrosion, and prolonged working life.

Corrosion Resistant

Corrosion C5, offshore and farm use with confidence.

Dust Resistant

IP6X is totally protected against dust. Safe to use in sandstorms and desert areas.

Water Resistant

Preparing for and staying safe during heavy rainfall, to prevent water vapor intrusion.



Take control in times of crisis.

Arc fault circuit interruption

The inverter collects DC-side parameters at any time, once mismatch the database, the circuit will be interrupted, and warned at the same time, keeping in control in time, thus eliminating the possibility of arc fault fire.

Shutdown time within

200ms

Cable length

up to 200m

Automatic reactivation

5 times



Lightning outside? No worries.

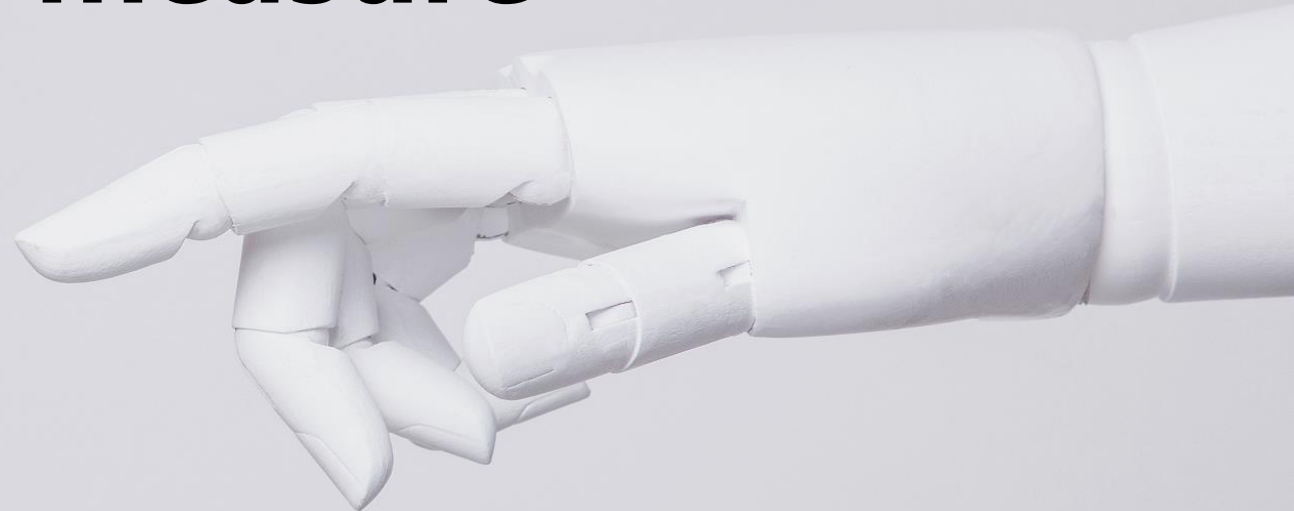
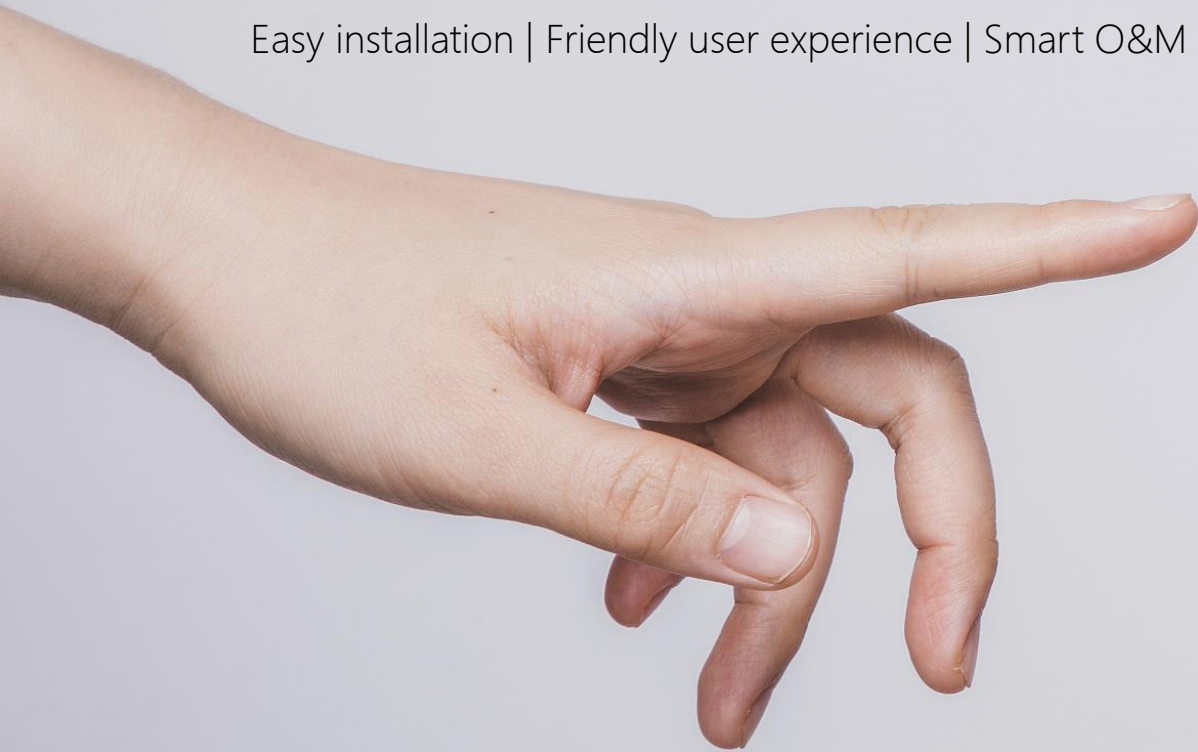
SGCX-P2 has triple lightning protection, DC, AC, and COM, effective protection for direct and indirect lightning strikes, for extra rooftop or open-ground safety. Among them,

DC SPD TYPE I + II.



Friendly by every measure

Easy installation | Friendly user experience | Smart O&M



Easy installation

Practical side handles and Independent AC cabinet

Fast Connector

X-RACK



Side handles

With 4 detachable side handles for easy lifting and handling of the inverter.

New AC compartment

Connectors are easily accessible and positioned at the perfect height.

Door stopper

Practical door stop to keep the AC compartment open during installation or maintenance.

AC sealing plate

Adaptive sealing plate to cable diameter.



Fast Connectors

Push and pull

Push and pull the AC junction box in place without auxiliary tools.

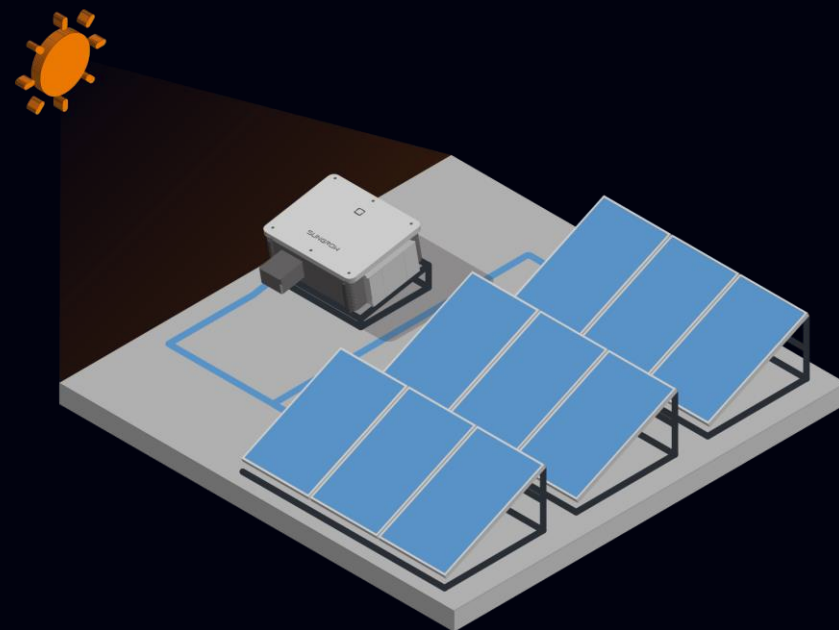
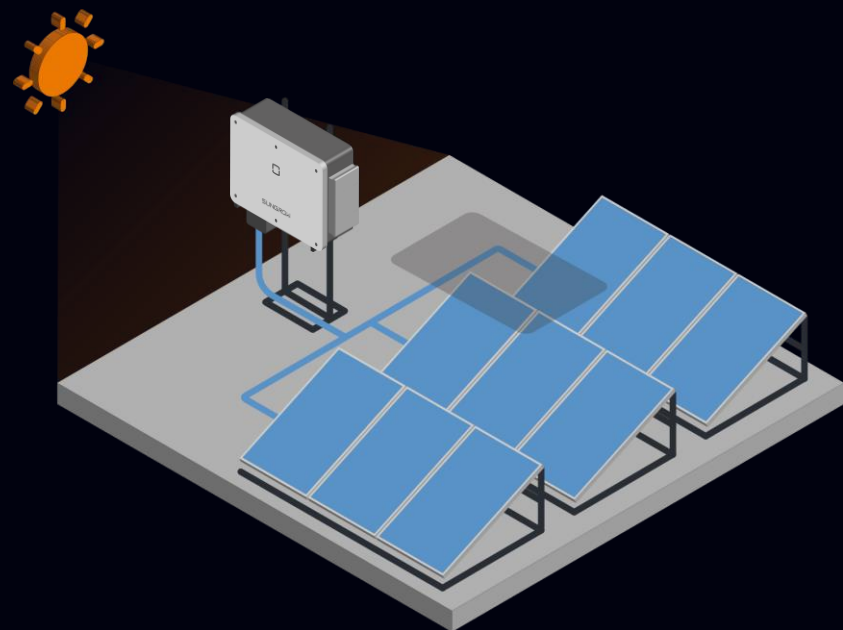
Click and done

Get an easy way to install the DC terminal. It will be done when you hear CLICK.

Plug and play

Touch free commissioning, inverter instantly online.





X-RACK

Support for Horizontal Assembly

Easy to handle and move, fast and space-saving installation on flat roofs.

Provides more options for installation locations. Use a patented horizontal bracket to support horizontal assembly, which facilitates assembly, reduces shading on PV modules by vertical assembly, and improves the generating capacity by more than 0.2%.

Monitoring your energy from anywhere

Friendly user experience with iSolarCloud

With Sungrow communication devices, One-click to build your own plant. Sign in to iSolarCloud, and information from your phone and PC appears automatically. You will get key information in real-time, such as the overview of the plant, information about the power generated by a single inverter, and accumulated data, and filters plants from multiple dimensions to discover inefficient plants and faulty plants. Always know how much power you're making, using, and saving both in real time.

3rd-Party access, iSolarCloud-based services for fast and easy deployment, rapid time to value, and simple ongoing operations.



UI friendly

24/7

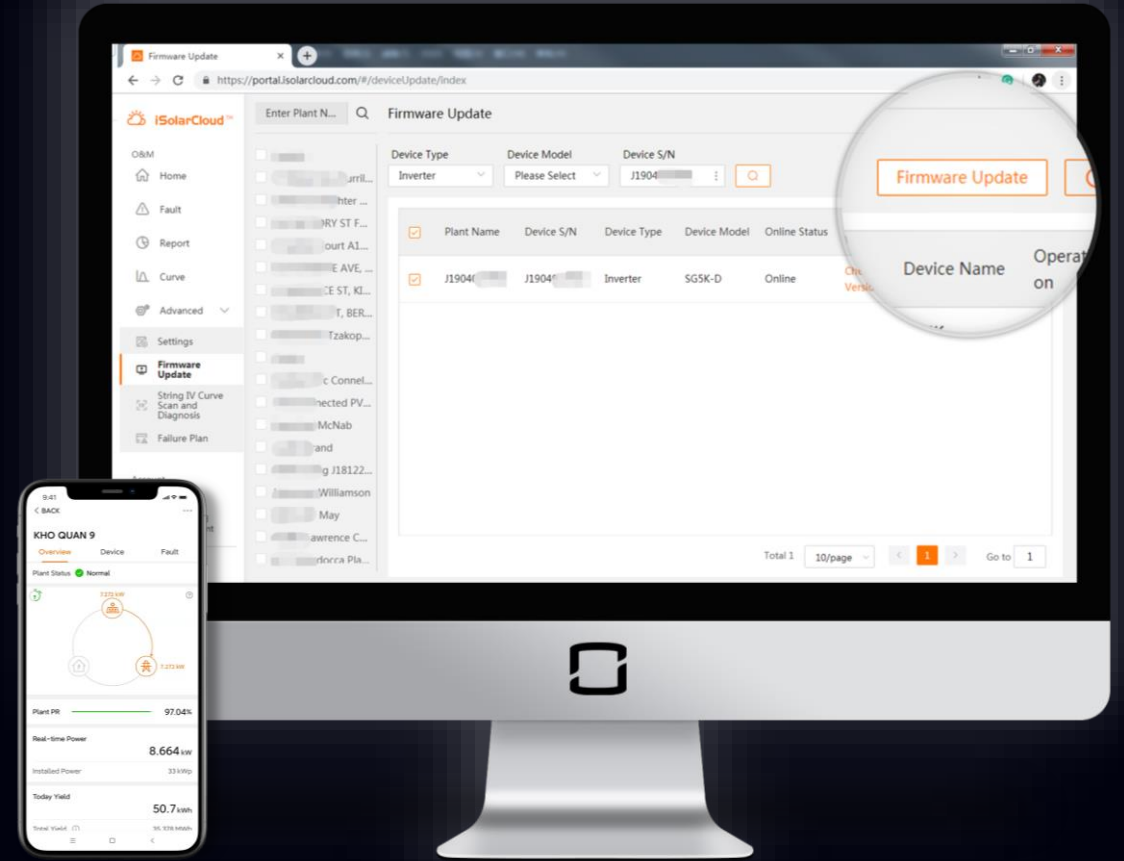
Real-time
Monitoring



Second-level
live Data



3rd-Party
access



Smart O&M

Based on AI self-learning and database data control and comparison, online I-V scanning helps to accurately locate faulty modules, with a scanning accuracy of no less than 95%. I-V scanning can analyze 17 types of faults and feedback fault information in time, effectively improving troubleshooting efficiency and reducing power generation losses.

By using iSolarCloud, users can upgrade firmware free of complex operations. O&M personnel can remotely help users with real-time updates and partial troubleshooting, improving the overall O&M efficiency and experience.

>17

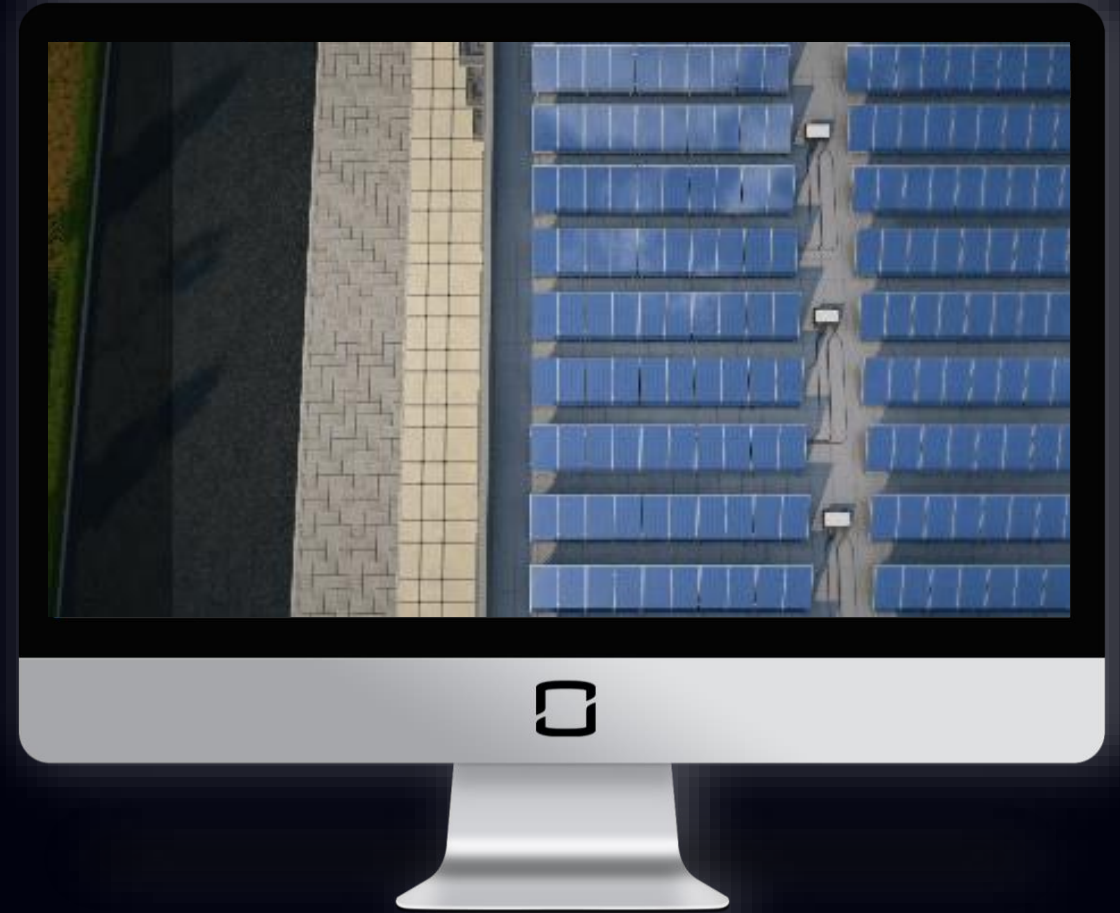
types of faults
analyzation

>95%

Scanning
accuracy



Remote O&M





SG50CX-P2 Specs

Max. PV input voltage

1100V

No. of independent

MPP inputs

4

Max. PV input current

120A(30A*4)

Max. AC output

apparent power

55 kVA

Rated AC voltage

3 / N / PE, 220 / 380 V, 230 / 400 V

Rated grid frequency

50 Hz / 60 Hz

Max. efficiency / European

efficiency

98.5% / 98.3%

Surge protection

DC Type I+II / AC Type II

PV String current monitoring

Arc fault circuit interrupter (AFCI)

PID recovery function

Size and Weight

W×H×D

645×575×245 mm

41kg

Water and dust resistance

IP66

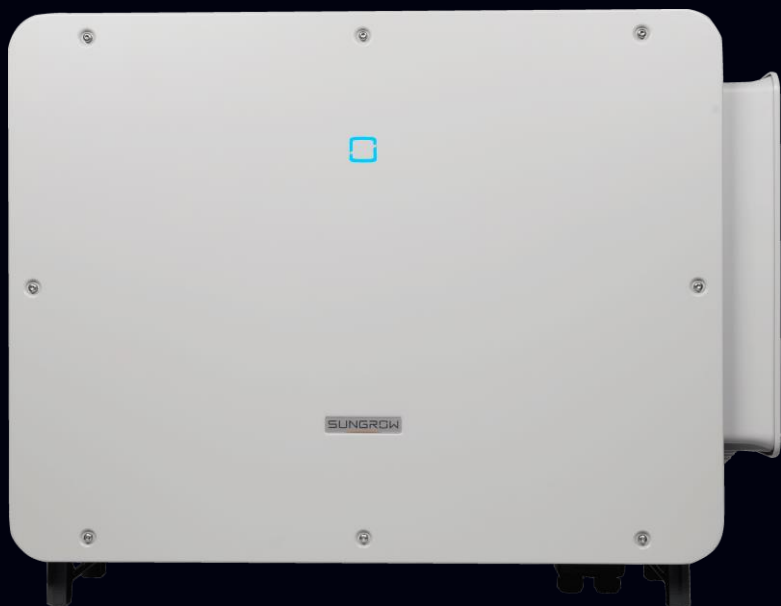
Corrosion resistance

C5

Operating ambient temperature range

-30 to 60 °C

*请各区域根据实际销售产品进行调整



SG125CX-P2 Specs

Max. PV input voltage

1100V

No. of independent

MPP inputs

12

Max. PV input current

360A(30A*12)

Max. AC output

apparent power

125 kVA

Rated AC voltage

3 / N / PE, 230 / 400 V

Rated grid frequency

50 Hz / 60 Hz

Max. efficiency / European

efficiency

98.5% / 98.3%

Surge protection

DC Type I+II / AC Type II

PV String current monitoring

Arc fault circuit interrupter (AFCI)

PID recovery function

Size and Weight

W×H×D

1020×795×360mm

87kg

Water and dust resistance

IP66

Corrosion resistance

C5

Operating ambient temperature range

-30 to 60 °C

***请各区域根据实际销售产品进行调整**



COMMUNICATION DEVICES

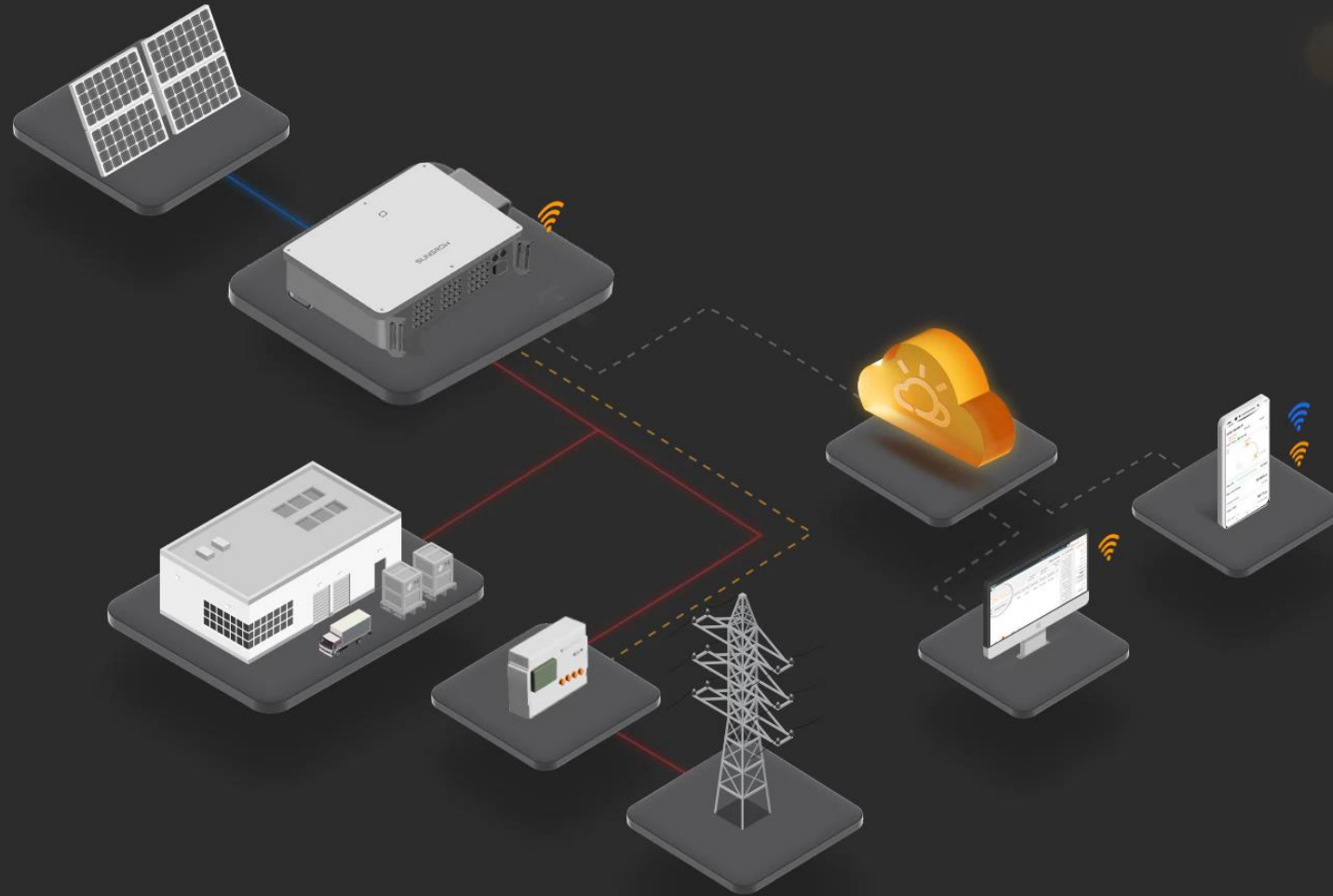
	WINET-S	COM100
No. of access devices	1	≤30
Automatic device search and setup	√	√
QR code for automatic cloud connection	√	√
O&M remotely and locally	√	√
Build-in WEB server	√	√
Zero export function	√	√
Support of data upload by FTP		√
Third-party extension support		√
Grid Management		√
Weather station support		√

*请各区域根据实际销售产品进行调整

Which is right for you?

Implement custom energy solutions for your PV plant

Single inverter system



Single inverter system

— DC 📶 WiFi 📶 4G
— AC - - - Ethernet - - - RS485



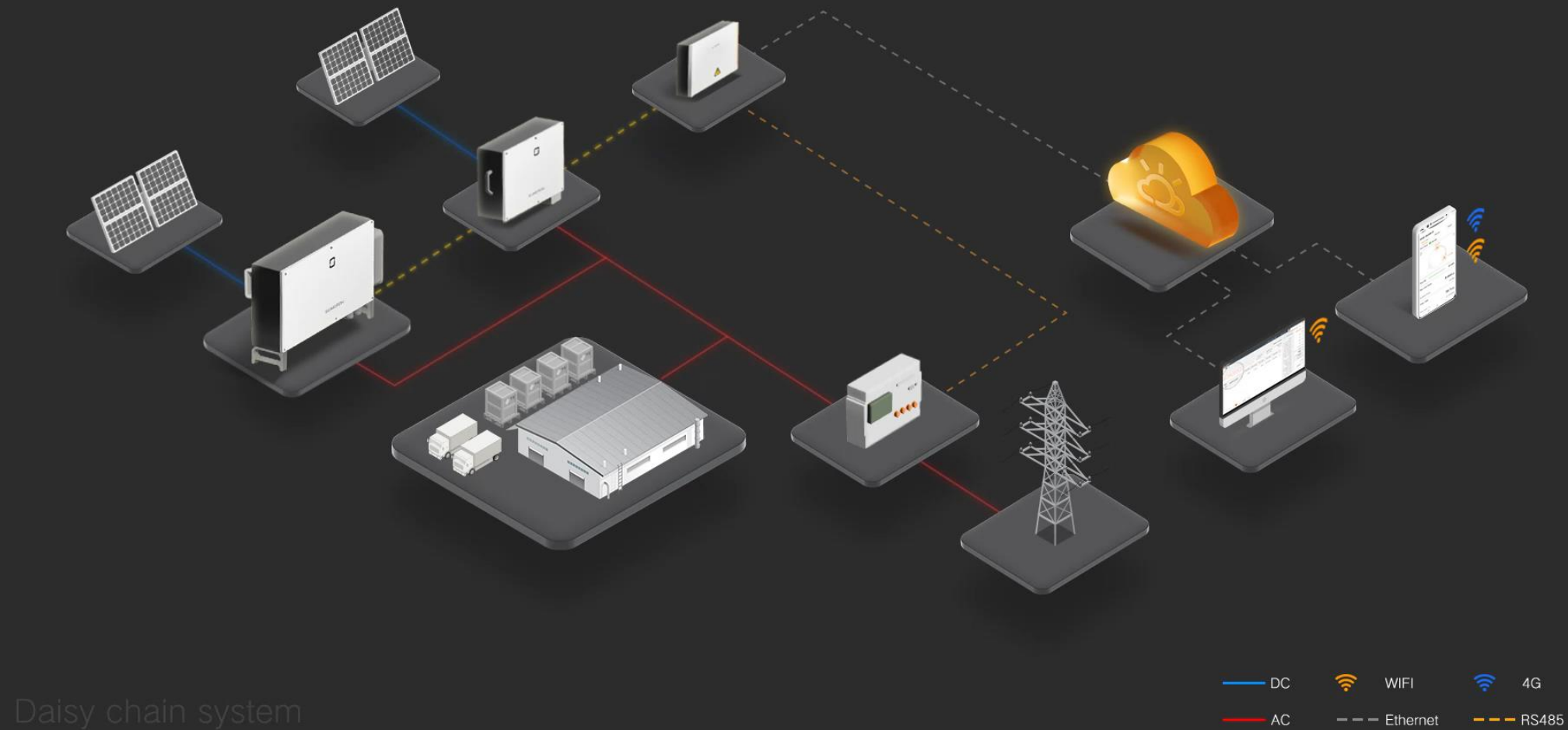
Mini commercial PV plants

Not exceeding 125kWp installed capacity,
for example, EV charging parking lots or small greenhouse farm.

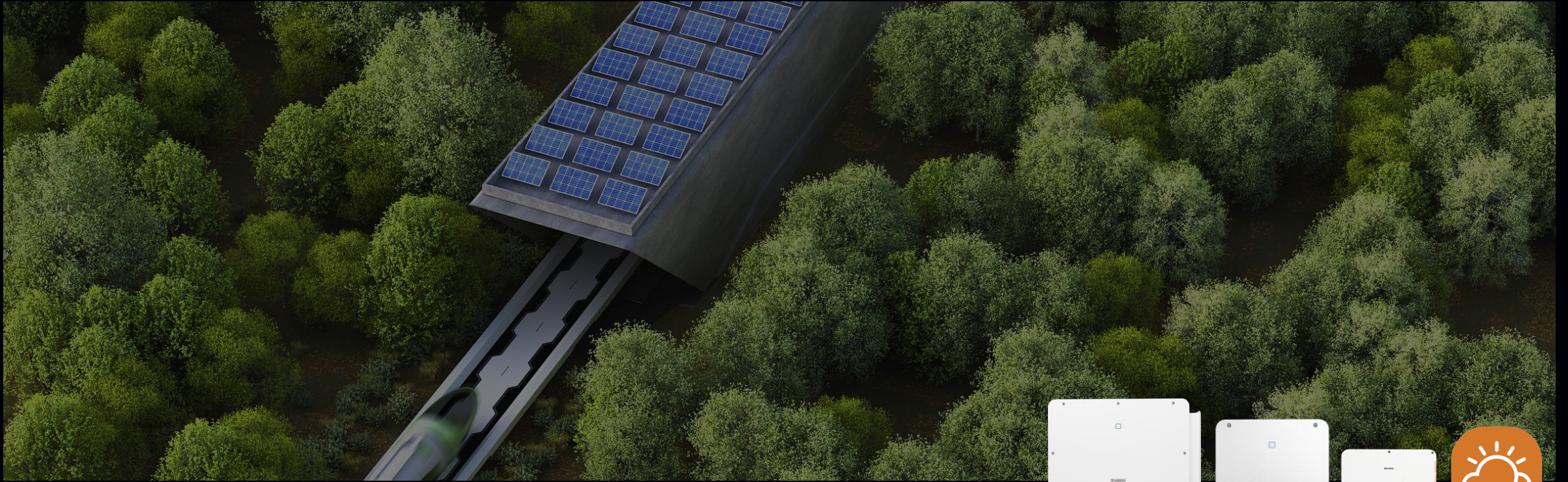
SG33/50/125CX-P2+WiNet-S

The new CX-P2 Series support Single inverter system. Any type of inverter is matched with the new WiNet-S to meet the needs of your mini commercial PV plants, allowing you to control power plant information in real time

Daisy chain system



Daisy chain system



Small commercial PV plants

Not exceeding 300kWp installed capacity,
for example, Rooftops of commercial supermarkets or office buildings

SGCX-P2+COM100E

In this scenario, 150% DC Oversizing capability support, lower LCOE, flexible matching of commercial supermarkets or factory BIPV of about 300kWp, Also use 4-5 sets of SGCX-P2 with communication COM100E parallel communication, one-click control data to the cloud.

Beijing National Speed Skating Oval with SG50CX-P2

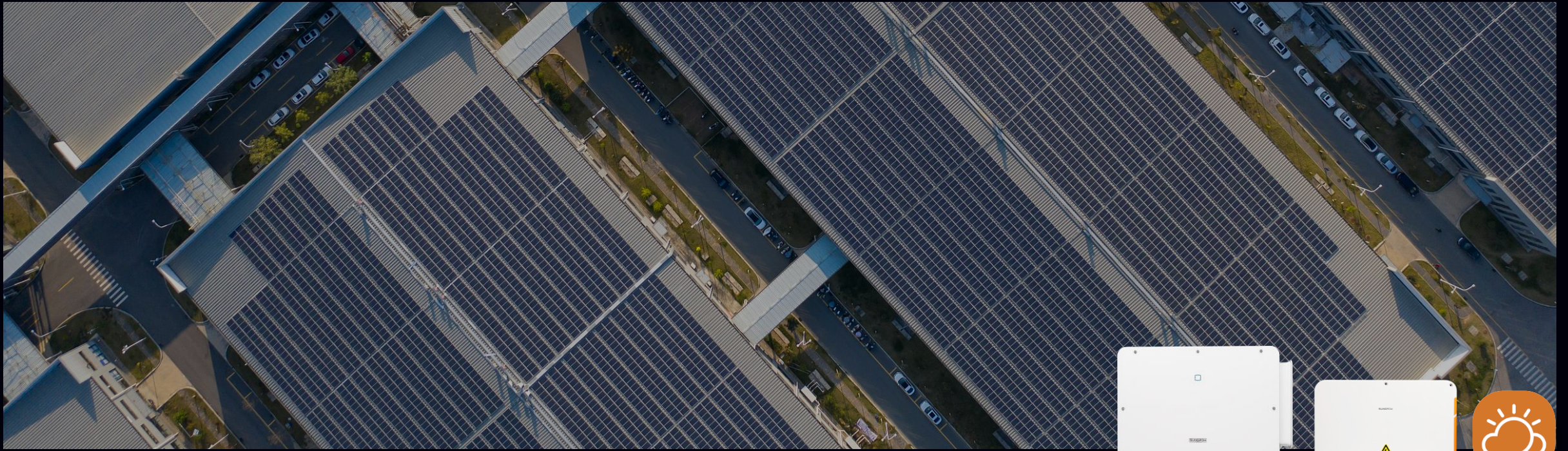
SUNGROW
Clean power for all



Beijing, China, Jan. 28, 2022 -- Sungrow supplied string inverter solutions to the PV plant installed on the rooftop of the National Speed Skating Oval (known as “The Ice Ribbon”) in Beijing.

The 320kW PV plant with **SG50CX-P2 inverter**, installed on the rooftop of the National Speed Skating Oval can generate 448,000 kWh of clean electricity per year, equivalent to eliminating carbon dioxide emissions of 358,600 tons. All the electricity generated will support the daily electricity consumption of the location.





Large Commercial PV plants

Large rooftop or small ground power plants 500kW-1MW

SG125CX-P2+COM100E

1MW independent project adopts independent sub-arrays to minimize operating costs, 500kW-1MW roof or ground plant adopts SG125CX-P2, compatible with 182mm panels, 12MPPTs can adapt to various installation environments, compatible with optimizers to avoid shadows The "short board effect" can be flexibly matched with cascade communication of different power segments, the data can be uploaded to the cloud in real-time, and the control can be issued with one key.

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EUR commercial PV plants with SG125CX-P2



Project Name: Metzelsdorf_SG125CX-P2

Location: Wetzelsdorf 95236 Steinbach Germany

Technology Provider: Münch Energie

Commissioning: 2022.10.5

Installed Capacity: 8MW

PV Inverter SG125CX-P2

Annual Output: 24 GWh

Plant is located in Metzelsdorf, a city in central Germany. The flat ground and good climate have created a good development area for PV production. This plant was built in 2012 and uses 30K+ pcs IBC PolySol 235DS modules. It has been in operation for more than 20 years, and the attenuation rate of the modules has reached 23% due to the PID phenomenon.

After replacing the SG125CX-P2 inverter, 12 MPPTs provide a more flexible idea for the old plant design/revamping. The built-in PID recovery function has helped the system increase the power generation rate by 6% since it was installed for 5 months.



