

YOUR SPEAKER FOR TODAY



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PRODUCT MANAGER DISTRIBUTION

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AGENDA

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C&I INVERTER ACCESSORIES

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02

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C&I PORTFOLIO & FEATURES

Portfolio & Features Overview



COMMISSIONING & MONITORING

Commissioning Options and Introduction to iSolarCloud









THE WORLD'S NO.1

IN BANKABILITY*

For 4 consecutive years



A FOCUSED LEADER IN INVERTER TECHNOLOGY





WORKING FOR A CLEAN FUTURE FOR ALL



CONTINUING FORWARD OVER 25+ YEARS

2020 2021 2028 **Ranks 1st China Goal for Carbon Joined** Top 500 ESG Neutral **RE100** Companies Production

GLOBAL PRESENCE





SUNGROW EUROPE

Repair Centres



Local warehouses



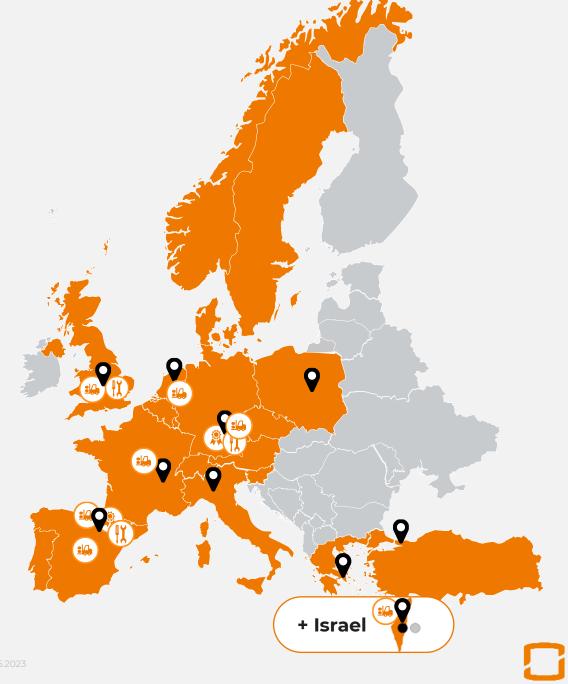


Training Academies

Subsidiaries



Local offices or representatives



INTERSOLAR EUROPE 2023

Munich, Germany

Booth B3.310 B3.410

June 14-16, 2023

RE100 EP100



WHERE TO FIND WHAT?



SUNGROW - DE FEITEN

ONZE DISTRIBUTEURS



Wij werken samen met de grootste distributeurs in heel Europa en zo hebben we altijd de juiste omvormer voor elk scenario. Klik hier om onze distributeurs te bekijken. PLANNING SOFTWARE





Met onze iSolarDesign software wordt de planning van uw volgende project eenvoudiger dan ooit. Nog niet geprobeerd? Plan hier jouw volgende project! **ONZE PRODUCTEN**





Op de productpagina's op onze website vind je datasheets, certificaten, factsheets en nog veel meer. Bekijk de video om te zien waar je wat kunt vinden.

PRODUCT VIDEOS



Op ons YouTube-kanaal vind je installatieen inbedrijfstellingsvideo's voor al onze producten. Installeren was nog nooit zo eenvoudig! Klik hier en overtuig jezelf.

WEBINARS



Jouw directe verbinding met ons! Je kan alle komende webinars en eerdere opnames online vinden. **Check het nu!**

SUNGROW POWER NEWS



Blijf altijd up-to-date met het Sungrow Power News. Ontvang product updates en aankondigingen van trainingen of evenementen. **Registreer nu en mis niets!**



OUR LOCAL PARTNERS

Our Distributors















global solar distribution







SERVICE BEYOND BORDERS

A CLOSER LOOK AT OUR EUROPEAN NETWORK



*Germany, UK, Ireland, Spain, Portugal, Italy, Belgium, Turkey, Greece, Romania, Spain, Portugal, Netherlands, France, Poland and Israel

- 100+ Employees, hiring ongoing
- Service Hotline & Technical
 Support
- Service **Repair Centres** & Warehouses
- Operating all over Europe,
 Israel
- Active in more than 20+ countries*



EUROPEAN SERVICE PARTNER NETWORK

WE ARE CLOSE TO YOU

49



Service Partners for On-Site Service

3



Repair Centres

2



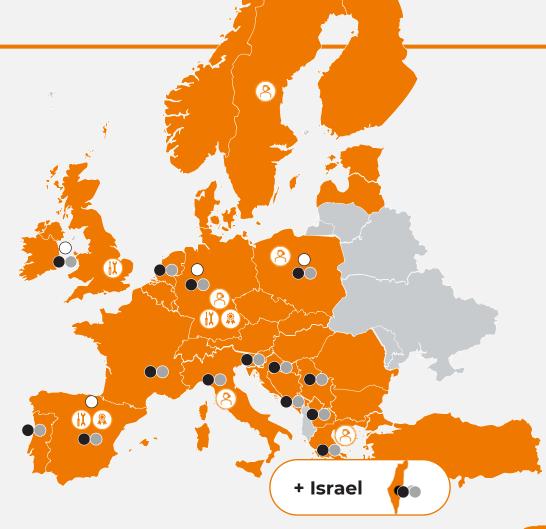
Training Centres

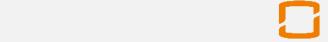




Hotlines

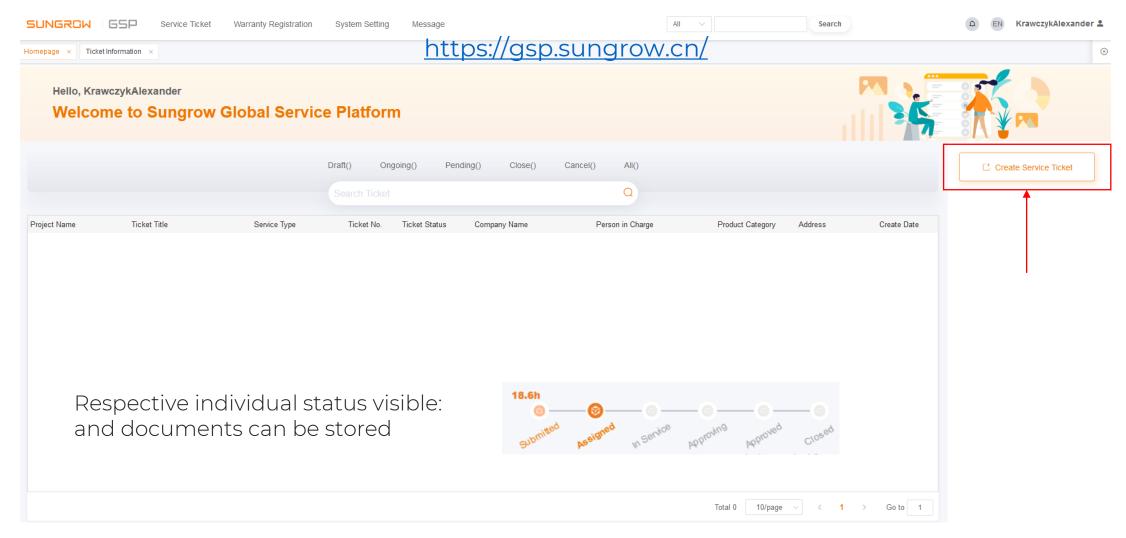
- Service Level 1&2
 - Service Level 3







HOW TO CREATE A SERVICE TICKET?





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C&I PORTFOLIO





C&I PV SOLUTIONS



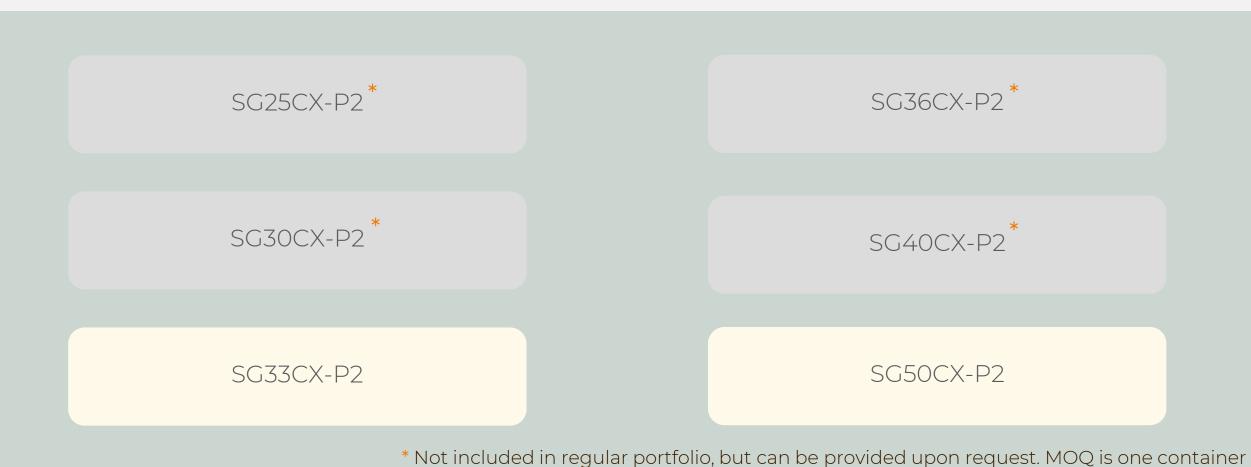




NEW GENERATION











3/4 MPPTS and MC4-EVO2 DC Connectors



30 A DC Current MPPT Input



Patented Design New AC Terminal









HIGH-CURRENT MODULES

30 A for each MPPT

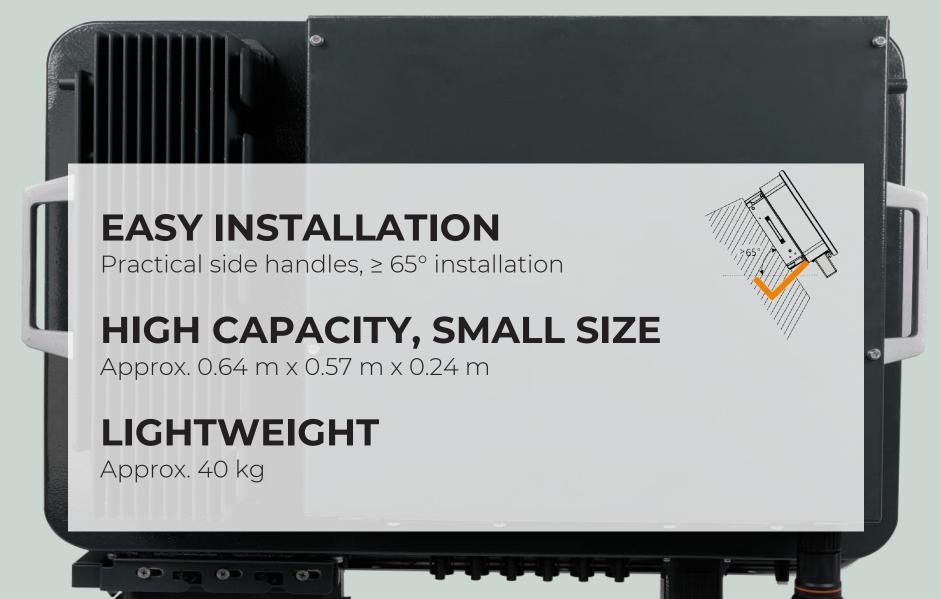




NEW AC BOX DESIGN

Plug and play with patented structure design of AC terminals







WIDE VOLTAGE RANGE

160 V - 1000 V input range

1.4 DC/AC RATIO

Recommended max. PV input power

110% AC OUTPUT POWER

Max. AC output power at mild temperatures (Max. 40°C)



NEW DC CONNECTION TYPE

MC4 EVO2 DC connectors

DC SPD TYPE I + II

Extra safety for rooftop applications

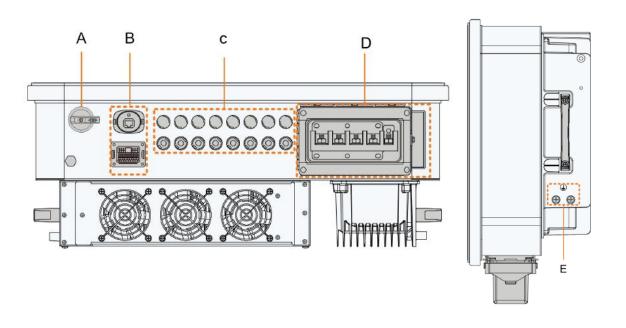
HIGH PROTECTION RATING

Ingress protection IP66 & Corrosion C5



PRODUCT DESCRIPTION

SG33-50CX-P2

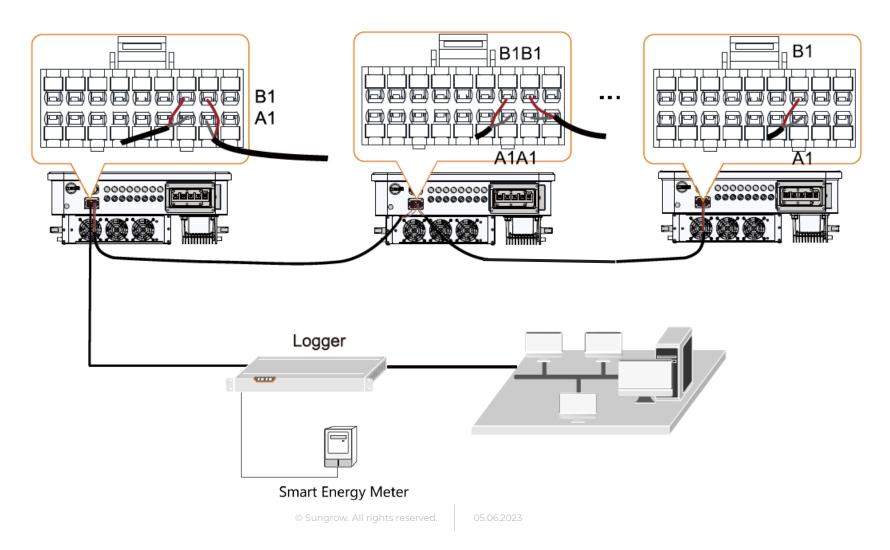


Item	Terminal	Mark	Note
Α	DC Switch	DC SWITCH	Used to switch on and off the DC
			input.
В	Communica- tion terminal	COM1	For communication module
			connection.
		COM2	DI, DRM, DO, RS485, Smart En-
			ergy Meter
С	PV terminals	PV1,PV2, PV3, PV4, PV5,	6 pairs of terminals(SG25/30/
		PV6	33CX-P2)
		PV1,PV2, PV3, PV4, PV5,	8 pairs of terminals(SG36/40/
		PV6, PV7, PV8	50CX-P2)
D	AC wiring	AC	Used for AC output cable
	terminal		connection.
E	External grounding terminal		Used for reliable grounding of
			the inverter
			2, use at least one of them to
			ground the inverter.
			ground the inverter.



ELECTRICAL CONNECTION

MULTIPLE INVERTERS - MULTIPLE INVERTERS SG33-50CX-P2





THE NEW SG125CX-P2

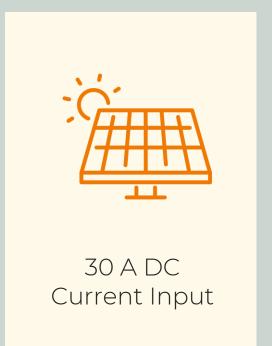
MORE POWER MORE FLEXIBILITY





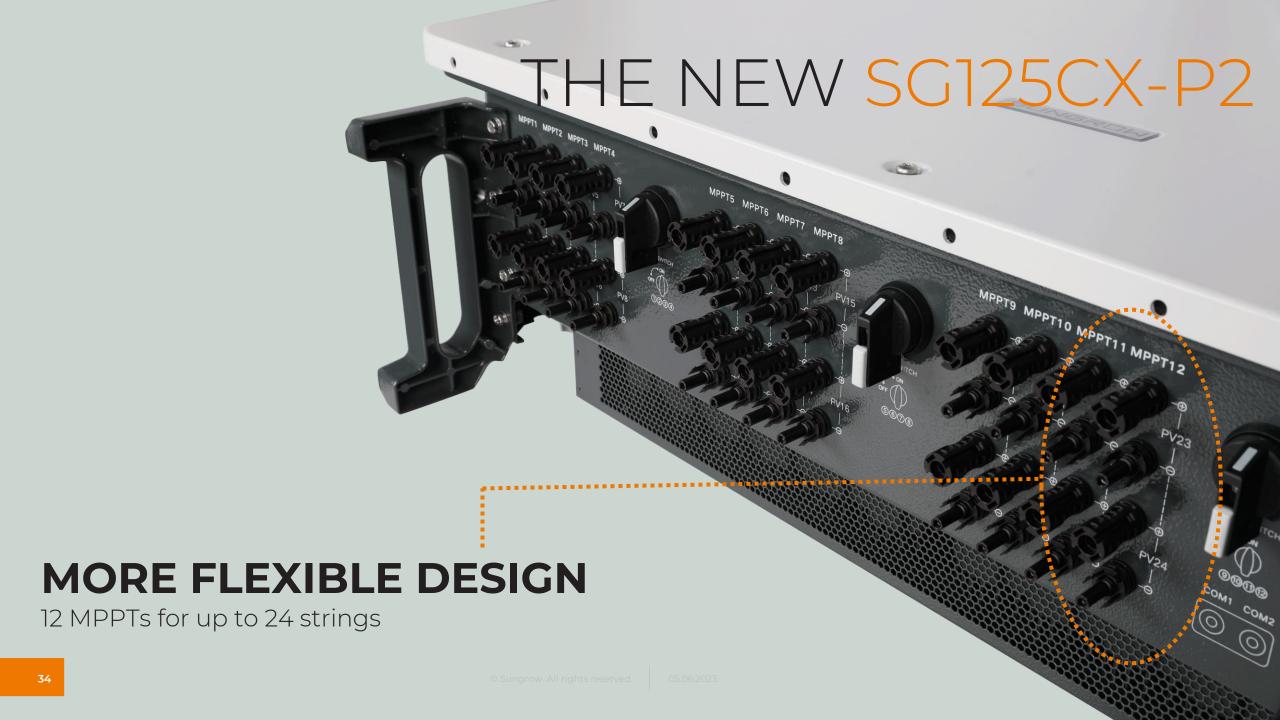
THE NEW SG125CX-P2



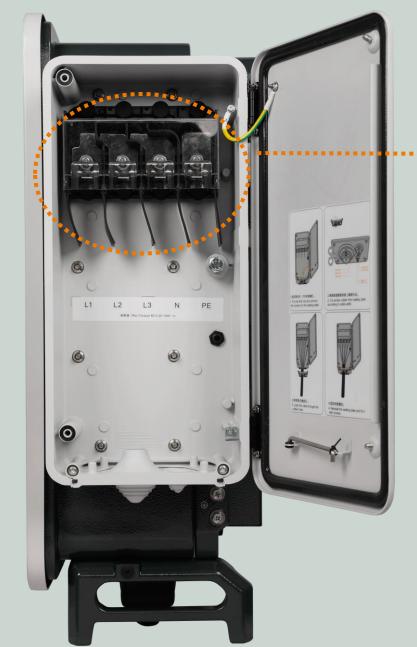












THE NEW SG125CX-P2

NEW AC COMPARTMENT

Connectors are easily accessible and positioned at perfect height





DOORSTOPPER

Practical doorstoper to keep the AC compartment open during installation or maintanance





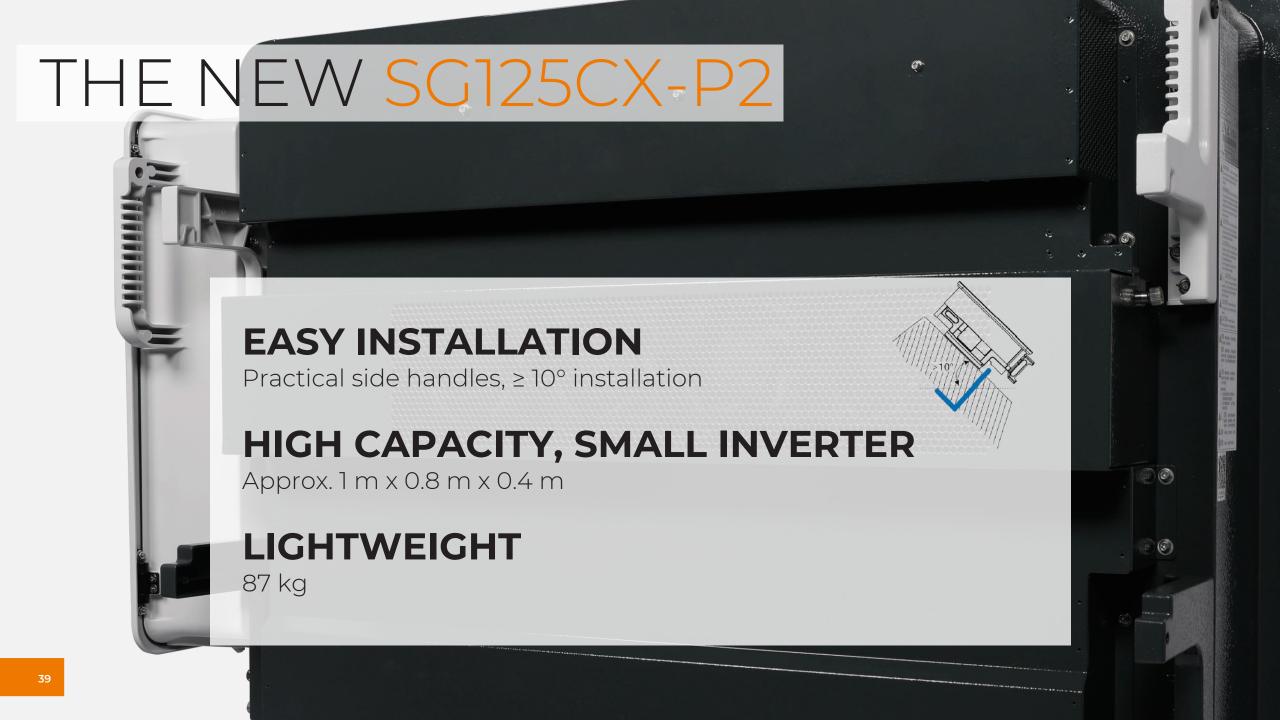
AC SEALING PLATE

Adaptive sealing plate (single cable) to cable diameter

3-hole X Plate: In scope of delivery for all SG125CX-P2 versions 5-hole X Plate: To be ordered separately. Will be soon included in CX-P2 scope of delivery







WIDE VOLTAGE RANGE

180 V - 1000 V input range

1.4 DC/AC RATIO

175 kW recommended max. PV input power

LOW START-UP VOLTAGE

Startup voltage of only 200 V



NEW DC CONNECTION TYPE

MC4 EVO2 DC connectors

DC SPD TYPE I + II

Extra safety for roof-top applications

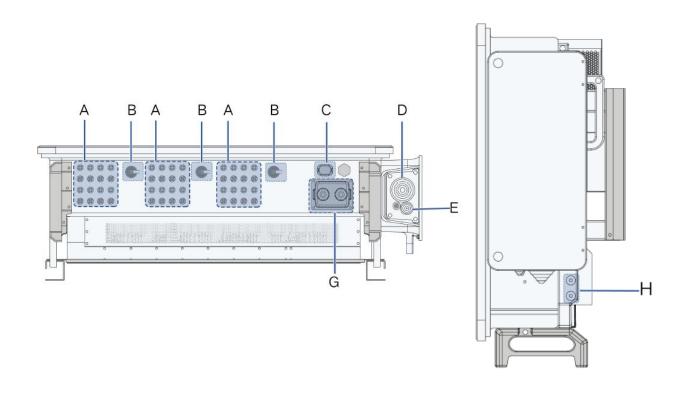
HIGH PROTECTION RATING

Ingress protection IP66 & Corrosion C5



PRODUCT DESCRIPTION

SG125-CX-P2

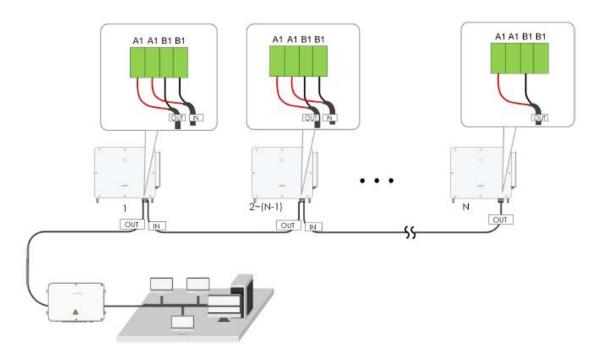


Item	Terminal	Mark	Note		
Α	PV terminals	+ / -	PV connector		
В	DC Switch	DC SWITCH	Used to switch on and off the DC input.		
	Communica-	COM2	For communication module connection.		
С	tion terminal	COM3			
D	AC wiring		Used for AC output cable connection.		
	terminal				
	Standby				
E	grounding	_	Used for internal grounding.		
	terminal*				
F	PE terminal	_	Used for internal grounding.		
G	Communica-		RS485 communication, digital input/output DI/		
	tion terminal	COM1,COM2	DO, etc.		
	Additional				
Н	grounding	(T)	use at least one of them to ground the inverter		
	terminal	<u></u>			

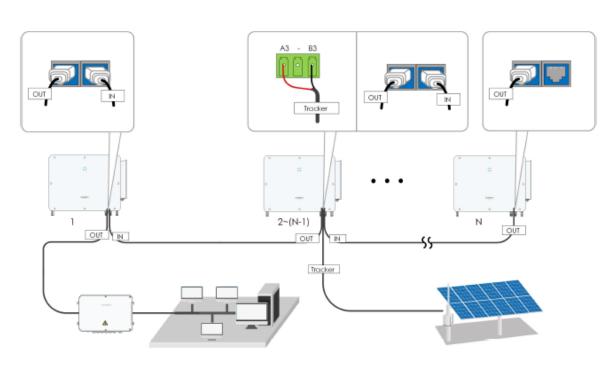


ELECTRICAL CONNECTION

COMMUNICATION CONNECTION – MULTIPLE SG125CX-P2 INVERTERS







RJ45 Connection



C&I PV INVERTERS RECAP

SG33-50CX-P2



- Up to 12 MPPTs
- High Current Module Compatibility
- PID Recovery
- Fuse-Free Design
- IP66, Weatherproof
- AFCI
- DC SPD Type I+II
- Easy Installation & Commissioning





THE NEW SG33-125CX-P2 RECAP

Туре	SG33CX-P2	SG50CX-P2	SG125CX-P2		
Grid Connection (V)	400 / 3-phase				
Start-up Voltage (V)	200				
Operating MPPT Voltage (V)	160 – 1000		180 - 1000		
Nr. MPPTs	3	4	12		
Nr. Input / MPPTs	2				
Max. Current per Input/per MPPT (A)	15/30				
Max. Short-Circuit Current per Input/per MPPT (A)	20 / 40				
SPD Type	DC Type I + II / AC Type II				
Max. DC AC Ratio		1.5			
Max. Efficiency (%)	98.5				
Protection Degree	IP66				
Dimensions (W x H x D, mm)	624 x 575 x 245	1020 x 795	1020 x 795 x 360		
Communication		Wi-Fi / LAN / Bluetooth / RS485			
Weight (kg)	38	41	87		
Smart I-V Curve Diagnosis	$\sqrt{}$				
Q@Night	$\sqrt{}$				
Arc Fault Protection		$\sqrt{}$			
PID Recovery	\checkmark				



CERTIFICATION OVERVIEW BENELUX

	SG33CX-P2	SG50CX-P2	SG125CX-P2
Netherlands		\checkmark	
Belgium	\checkmark		





INSTALLATION VIDEOS – SG25-125CX-P2

- Mechanical & Electrical installation video for the SG25-50CX-P2:
 - https://support.sungrowpower.com/VideoDetail?id=1634107096592539649&proId=1416&proLangId=1&langId=&proType=1
- Mechanical & Electrical installation video for the SG125CX-P2:
 - http://support.sungrowpower.com/VideoDetail?id=1587720887289143297&proId=1375&proLangId=1&langId=&proType=1





FAULT RECORDER

- Types of fault detections:
 - Grid **overvoltage** fault
 - Grid **undervoltage** fault
 - Leakage **current** fault
- Can be accessed through iSolarCloud
- Easier O&M:
 - Assists O&M personnel to judge the route cause of a fault



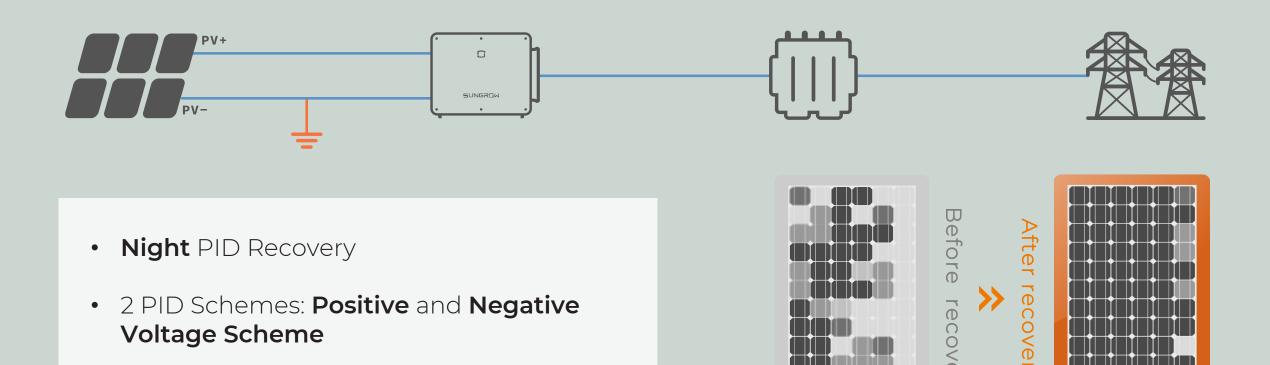
ARC FAULT CIRUIT INTERRUPTION

- DC collection by current sensor
- Circuit interruption in 200 ms
- Identification of serial arc fault on DC cable up to 200 m
- **5 times** automatic reactivation





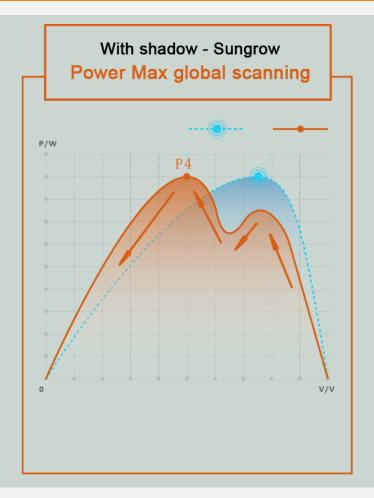
PID RECOVERY





GLOBAL MPPT TRACKING

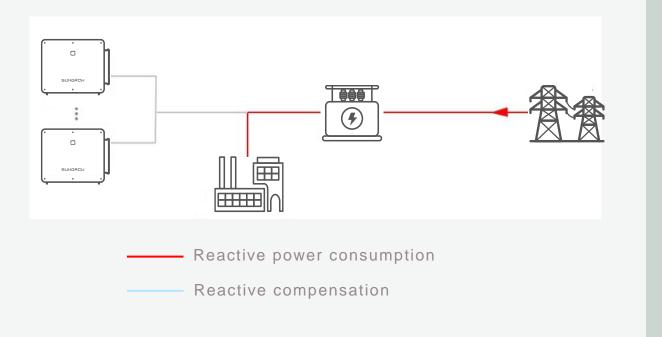
- Full PV curve scanning for improved shading tracking
- Manual, Timing and Periodic Scanning
- Activation via iSolarCloud





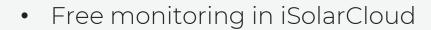
Q @ NIGHT

- Monitor AC reactive consumption in real time
- Quick response time < 100 ms after night detection
- Activation via iSolarCloud

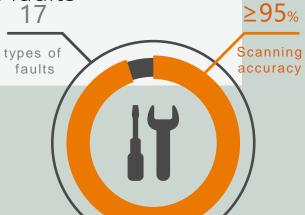




SMART I-V DIAGNOSIS



- Scanning accuracy > 95%
- Analyse 17 types of faults
- Improved O&M







SPD PROTECTION

DC SPD Type I+II

- Improved Lightning protection
- Rooftop applications
- Better withstanding of high voltage
 PV modules

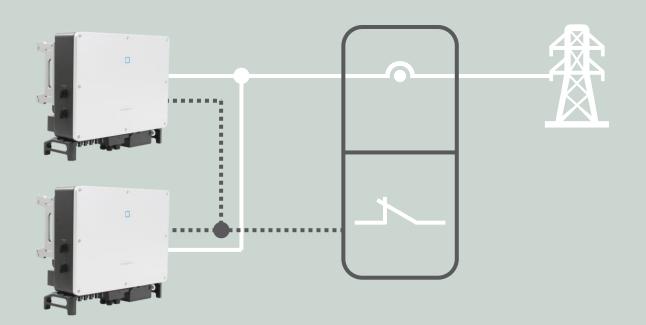




Saves extra money and installation effort



EMERGENCY STOP / NS PROTECTION / RIPPLE CONTROL



Dry Contact

- DI-Port: NS Protection & Emergency Stop
- DO-Port: Fault Alarm Outputs



12 THE PORT OF THE PROPERTY OF

C&I INVERTER ACCESSORIES



THE SG33-125CX-P2 ACCESSORY DEVICES

Monitoring & Power Control WiNET-S COM100E or Logger1000

Installation Accessories



X-Rack (SG125CX-P2) X-Plate (SG125CX-P2): 3-hole or 5-hole

Energy Meter



DTSD1352



COMMUNICATION

WiNet-S



COM100E / Logger1000





SUNGROW MONITORING PRODUCTS

FOR CX-(P2) INVERTER SERIES

			COM100E always includes Logger1000		
				B G SUNGROW	
	VA/INIET C		COMMON	LOCCEDIOOO	
	WINET-S	EYEM4 ¹	COM100E	LOGGER1000	
Supported device number	1	10	30	30	
Automatic device search and assign addresses	•	•	•	•	
Automatic connect cloud by					
scanning QR code	•	•	•	•	
O&M remotely / locally	•	•	•	•	
Inverter parameter setting	•	•	•	•	
Inverter firmware updating	•	•	•	•	
Built-in WEB pages	•	•	•	•	
Third party extension			•	•	
Power control	● (one inv)		•	•	
Virtual meteo stations			•	•	
Remote web operation			•	•	
¹ EyeM4 not compatible with SGCX-P2	© Sungrow. All rights reserved.	05.06.2023	Datatransfer to iSolarCloud only – not cor	mpatible with 3rd party monitoring portal	



WINET-S

- Supports one inverter
- Live data: 10 sec. refresh rate
- Wifi & Ethernet
- Active power limitation & feed-in limitation in combination with an energy meter





LOGGER1000 & COM100E

- Supports up to 30 devices
- Live data: 10 sec. refresh rate
- Wifi & Ethernet
- Transfer configuration via Modbus RTU, TCP and FTP
- Active & Reactive power control and feed-in limitation





EYEM4 PHASE OUT

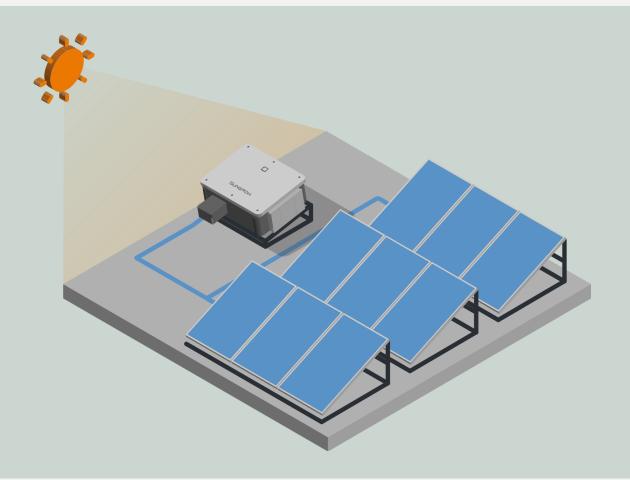
- Not compatible with SGxxCX-P2 can only be used with the old SGxxCX series
- Will be discontinued in Q2 2023 All open orders will be fulfilled





X-RACK

- New horizontal mounting system
- 25-50CX-P2: Under development
- 125CX-P2: Orderable





ENERGY METER COMPATIBILITY

FEED-IN LIMITATION

SUNGROW - DTSD1352 6A



- Direct Smart Meter connection to SG33-125CX-P2 (single inverter)
- Connection to Logger1000, COM100E (multiple inverters)
- Response time > 800 ms

JANITZA- UMG604, UMG104 & WEIDMÜLLER - EM610



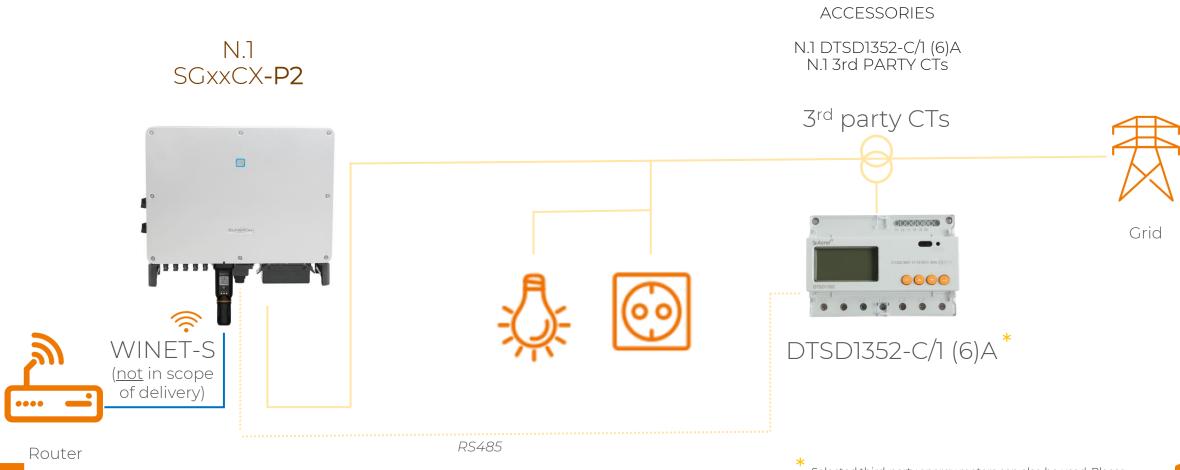


- Direct Energy Meter connection to SG33-125CX-P2 (single inverter)
- Connection to Logger1000, COM100E (multiple inverters)
- Response time < 400 ms



ONE C&I INVERTER

MONITORING + CONSUMPTION VISUALIZATION + FEED-IN LIMITATION



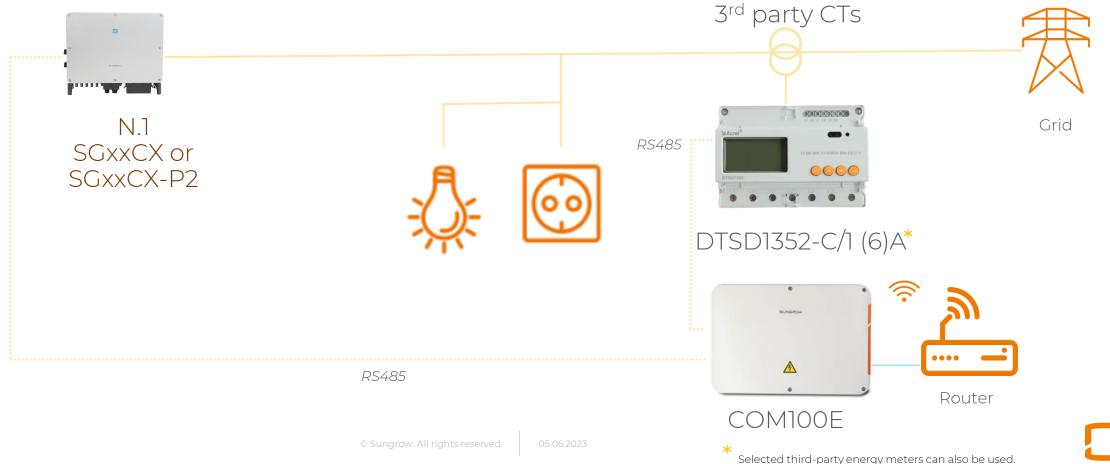


ONE C&I INVERTER

MONITORING + CONSUMPTION VISUALIZATION + FEED-IN LIMITATION

ACCESSORIES

N.1 DTSD1352-C/1 (6)A N.1 COM100E N.1 3rd PARTY CTs

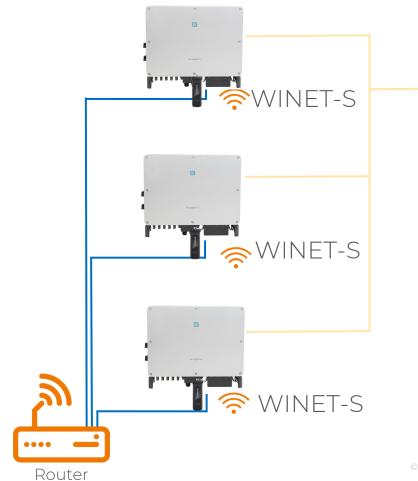


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MULTIPLE C&I INVERTERS

MONITORING ONLY

N.∞ SGxxCX or SGxxCX-P2









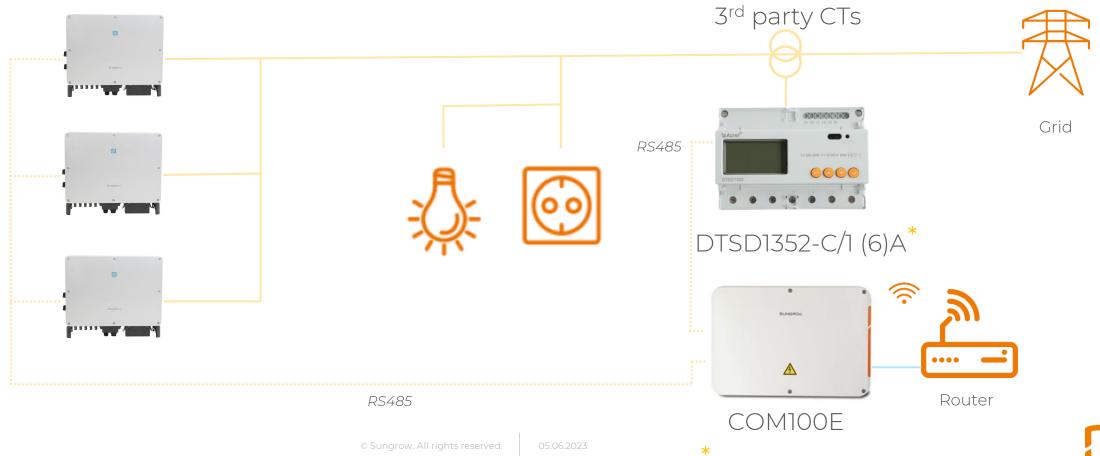
MULTIPLE C&I INVERTERS

MONITORING + CONSUMPTION VISUALIZATION + FEED-IN LIMITATION

ACCESSORIES

N.1 DTSD1352-C/1 (6)A N.1 COM100E N.1 3rd PARTY CTs

N.<29 SGxxCX or SGxxCX-P2





ISOLARDESIGN

PV DESIGN APP



Easy to use, easy to understand and fast to work with



Online at
https://design.isolar
cloud.com

Suitable for PC, tablet



Easy registration
Free of charge





ONLINE WEB-BASED:

design.isolarcloud.com
(choose language online)

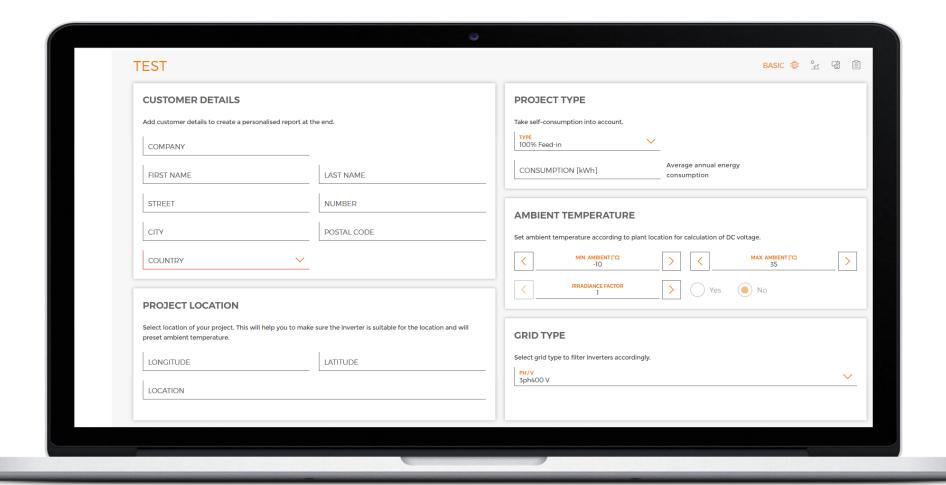


What is iSolarDesign?



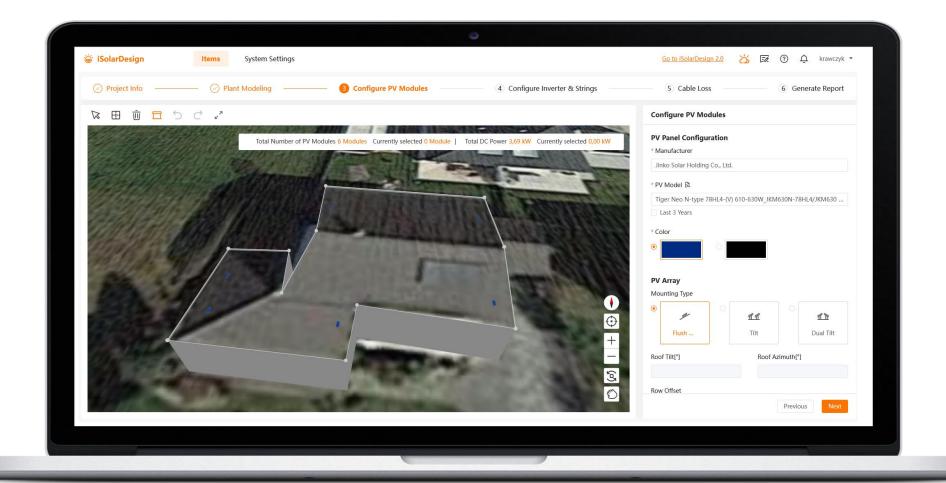


ISOLARDESIGN IMPRESSIONS





ISOLARDESIGN IMPRESSIONS





LCOE & PV PLANT DESIGN

$$LCOE = \frac{CAPEX + OPEX}{Yield} = \frac{Total\ Amount\ of\ Money\ Spent}{Total\ Amount\ of\ Energy\ Produced}$$

Cost of installation

Cost of components

Yearly performance

Module efficiency

Module technology

Maintenance costs

Land purchase

Inverter efficiency

Repairs & exchanges

Financing

Grid and business fees

Land rental fees



YOUR SUNGROW LCOE BENEFITS

Easy Installation & Commissioning

High-Efficiency Inverters (98.5%)

Advanced Features: Reactive Power Control, Q@Night, PID-Recovery, ...

> Safety & Compliance: AFCI, SPD Type I+II, ...



High Durability & Reliability

Advanced
Monitoring and
Control

Save Cabling Costs: 1-cable & 5-cable Installation Options

DC/AC Ratios up to 1.5 and more (case-by-case)





ISOLARCLOUD



COMMISSIONING AND MONITORING APP



Flexible data access, Web portal and App, remote or local maintenance

Minimum Browser

Minimum OS



Firmware updates, automated data reports



Hierarchical access management



TECHNICAL DATA	iSolarCloud
Device types	Inverter, combiner box, meteo station, energy meter,
	transformer and other plant devices
Monitoring Capacity	More than 100 GW (scalable)
Time interval	5 minutes
Languages	Chinese, English, Japanese, German, French,
	Spanish, Portuguese, Italian, Dutch, Korean
Data storage time	>25 years

IE11, Chrome 56, Safari 11

Android 4.4, iOS 9.3







ON-LINE DOCUMENTATION

ENG | GER | FRA | SPA ITA | POL | UKR | TUR | DUT



VIDEO

ENG | GER | FRA | SPA ITA | POL | UKR | TUR | DUT

Commissioning Video 1:

The whole commissioning process on-site

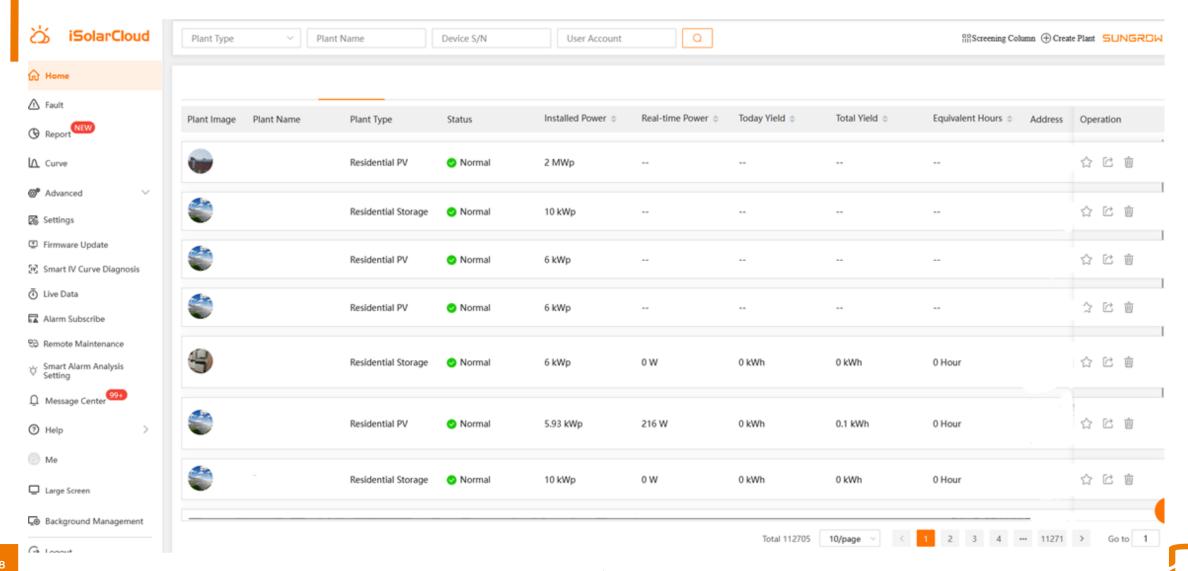
Commissioning Video 2:

Start on-site and finish remotely

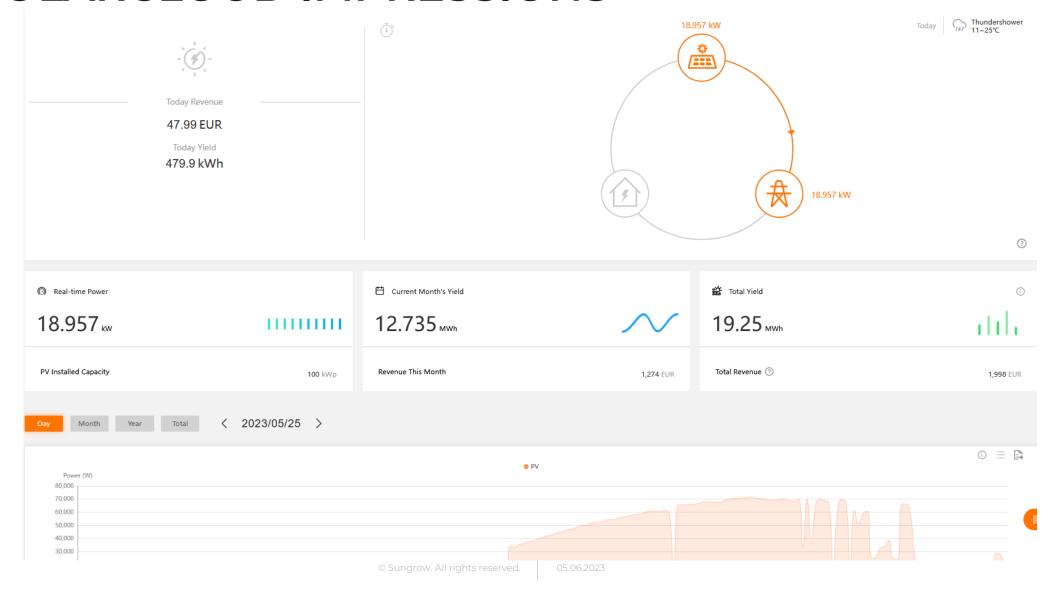




ISOLARCLOUD IMPRESSIONS



ISOLARCLOUD IMPRESSIONS





ISOLARCLOUD IMPRESSIONS

