

ENERGY TO POWER YOUR LIFE

A large, semi-transparent globe with a grid pattern, centered on the African continent, serving as a background for the central text.

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01

Global Presence



20+

Global
branches

90+

Countries with
SOFARSOLAR
installed



01 Outperforming market growth



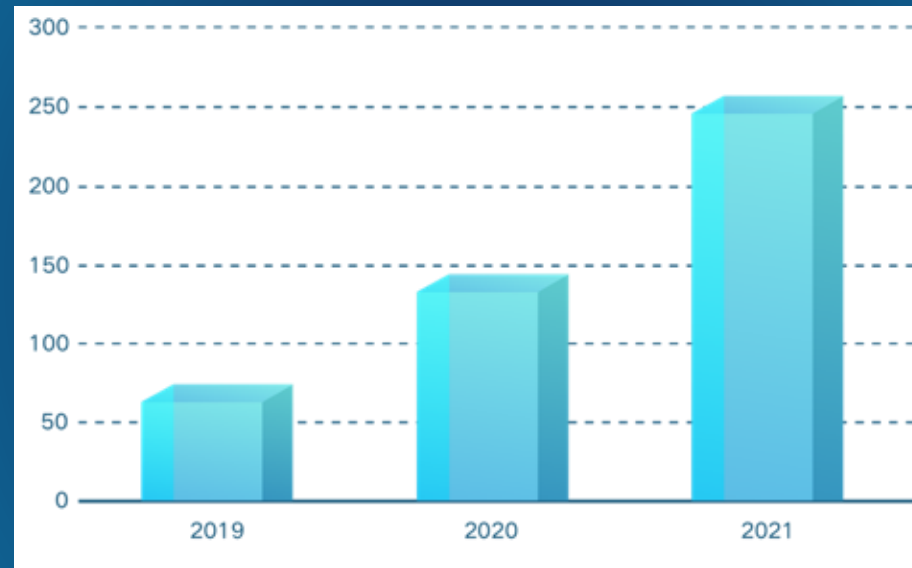
1000+

employees

30%+

R&D engineers

Global Revenue (Mio. EUR)



Compound annual growth rate

86%

10 GW

Annual inverter
production capacity

1 GWh

Annual battery
Production capacity

01 About SOFARSOLAR



SofarSolar GmbH

Sales and service office

Krämerstr. 20, 72764 Reutlingen, Germany



Warehouses

- **Inverters:** Kühne+Nagel, Doesburg, Netherlands
Karl Gross, Rotterdam, Netherlands
- **Batteries:** DVR Warehousing B.V., Rotterdam, Netherlands

A large, semi-transparent globe with a grid pattern, centered on the Atlantic Ocean, serving as a background for the central text.

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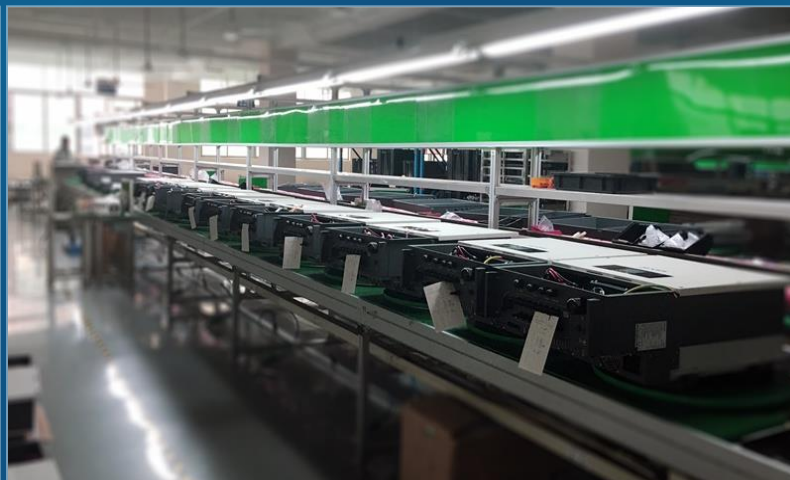
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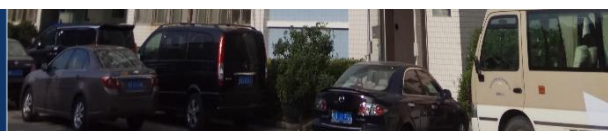
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02 Products and Technology



Production Facility



02 SOFARSOLAR Product Portfolio



Residential



3...6 kW / 5 ... 30 kWh
Intelligent Hybrid Storage



5...10 kW / 5 ... 30 kWh
Hybrid Storage



1.1 ... 10.5 kW
1-phase Solar



3...12 kW
3-phase Solar



C&I



15...20 kW / 10 ... 200 kWh
3-Phase Energy Storage System



15 ... 110 kW
3-Phase Solar



Utility



255 kW 1500 VDC / 800 VAC
3-Phase Inverter

— SOFARSOLAR grid-tied String Inverter —

Single Phase Inverters



1.1KTL-G3
...
3.3KTL-G3

3KTLM-G3
...
6KTLM-G3

7KTLM-G3
...
10.5KTLM-G3

Threephase Inverters



3KTLX-G3
...
12KTLX-G3

15KTLX-G3
...
24KTLX-G3

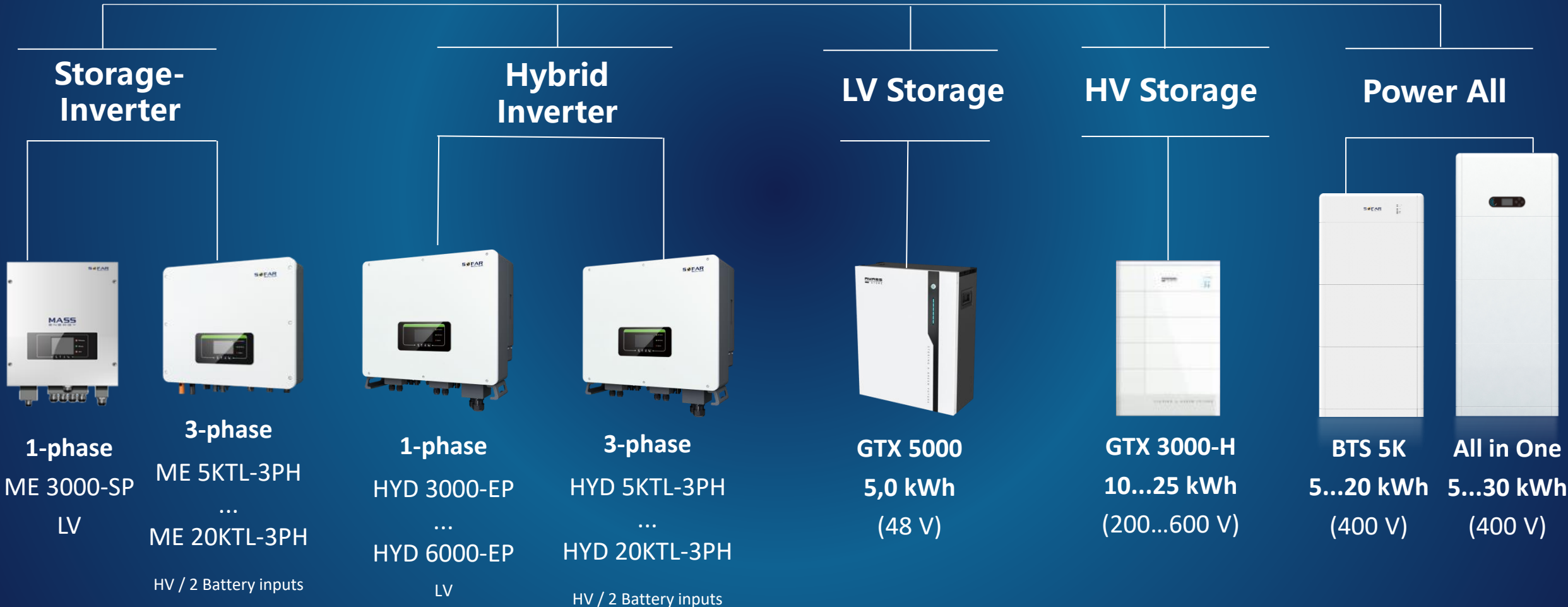
25KTL-G3
...
50KTL-G3

60KTL
...
80KTL-HV

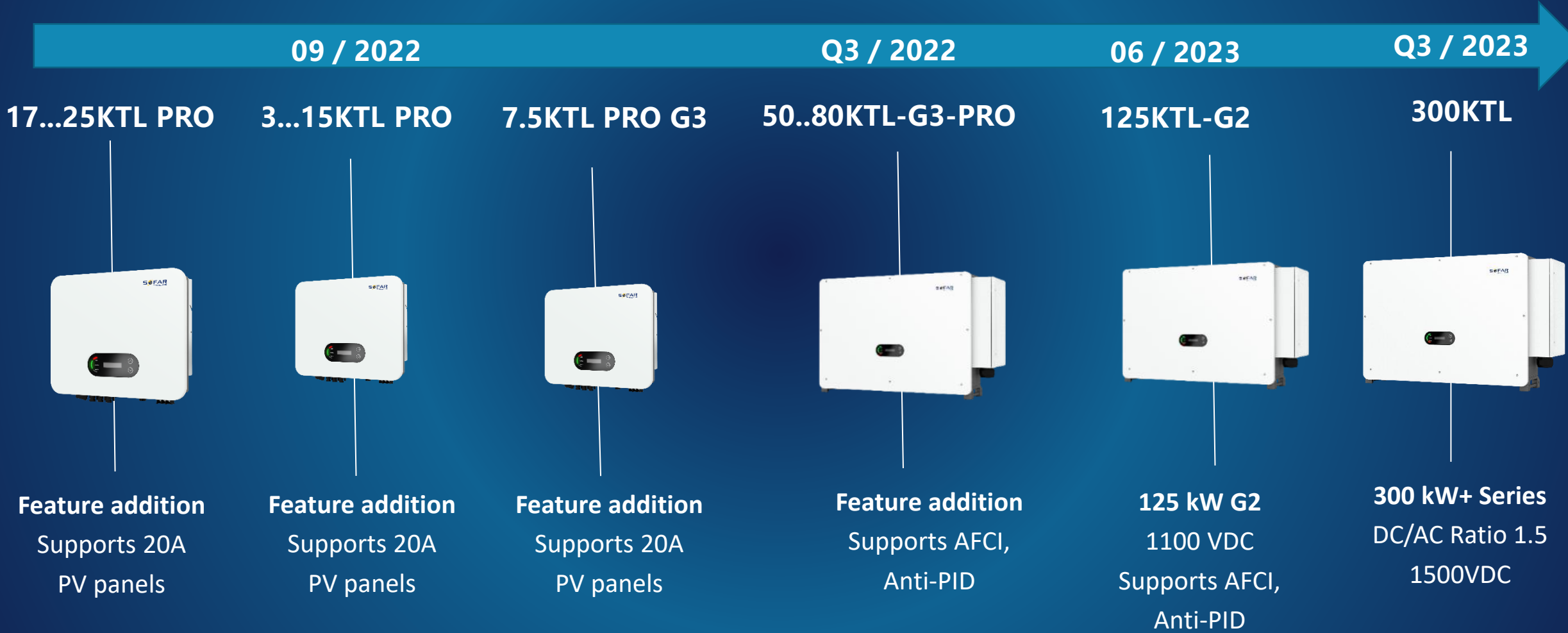
100KTL
...
136KTL-HV

250KTL
...
255KTL-HV

— SOFARSOLAR Hybrid & Energy Storage —



02 SOFARSOLAR Product Roadmap



02 Monitoring

Residential System Monitoring



Commercial System Monitoring



Monitor System

02 Monitoring Platform (Smart and Business Edition)



Flexible customization of various display screens

Unified management of different plant types, including residential, industrial and commercial, ground power station, etc.

View the fleets based on areas

List the major KPIs in a clear way

Comprehensive information management

Flexible setting on energy generation, energy consumption, energy storage system

Charts, alerts, tickets and events

Support different types of alarms, reports and data analysis

Multiple languages (ES, EN, PL, FR, CN, PT)



Monitor System

02 Solarman Business



The dashboard for plant Sallèles (ID: 302298) shows the following data:

- System Status:** Online, No Alerts. Last update: 2022/02/21 14:05:48 UTC +01:00.
- Inverter Rankings (Up to 10):**

Inverter Name	Peak Hours Today(h)	Power Normalized
Onduleur 9	2.46	87.77%
Onduleur 7	2.49	88.36%
Onduleur 10	2.5	93.44%
- Planned Production:** A bar chart showing monthly production (blue), planned production (grey), and completion (green) for 2021. The y-axis represents MWh, ranging from 0 to 300.
- Work Order:** 0 Executing, 0 Finished.
- Environmental & Economic Benefits:**
 - Standard Coal Saved: 665.99 t
 - CD₂ Emission Reduction: 1659.98 t
 - Trees Planted: 4547.89
 - Total Yields: 183.14 kEUR

The Devices page for plant Sallèles (44 Devices) shows a list of inverters with the following columns: Name/SN, Status, System, DC Discrete, Production(kW), and Operation. The table lists 16 inverters, with Onduleur 16 (SQ1ES180M1D088) highlighted.

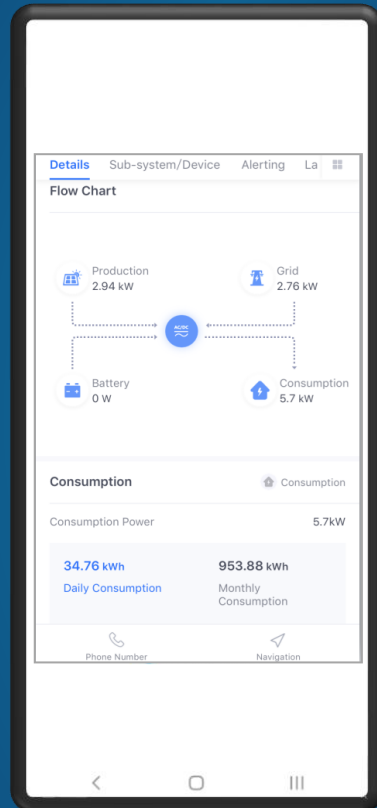
Name/SN	Status	System	DC Discrete	Production(kW)	Operation
Onduleur 13 SQ1ES180M1D085	Online	Sallèles	2.66%	21.04	
Onduleur 4 SQ1ES180M1D086	Online	Sallèles	2.64%	68.68	
Onduleur 6 SQ1ES180M1D087	Online	Sallèles	2.32%	75.25	
Onduleur 16 SQ1ES180M1D088	Online	Sallèles	1.78%	62.94	
Onduleur 22 SQ1ES180M1D089	Online	Sallèles	1.73%	62.23	
Onduleur 21 SQ1ES180M1D091	Online	Sallèles	1.99%	22.89	
Onduleur 1 SQ1ES180M1D095	Online	Sallèles	37.79%	72.76	
Onduleur 20 SQ1ES180M1D096	Online	Sallèles	1.7%	63.65	
Onduleur 9 SQ1ES180M1D097	Online	Sallèles	1.74%	70.29	

Monitor System

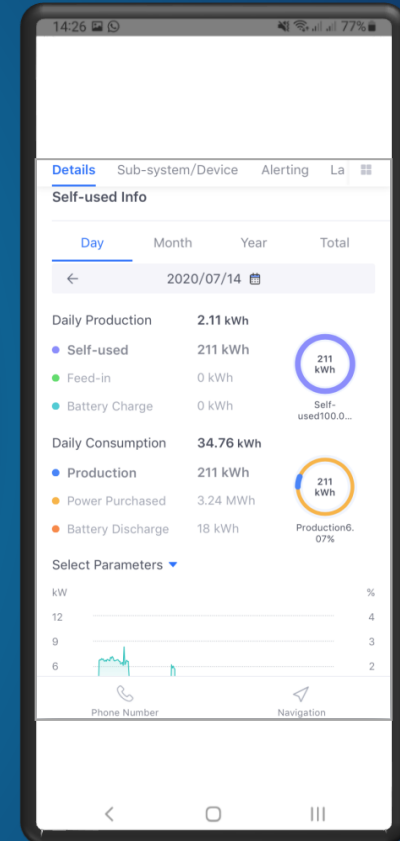
02 Solarman App



Solarman Business
(for installers)



Solarman Smart
(for end customers)



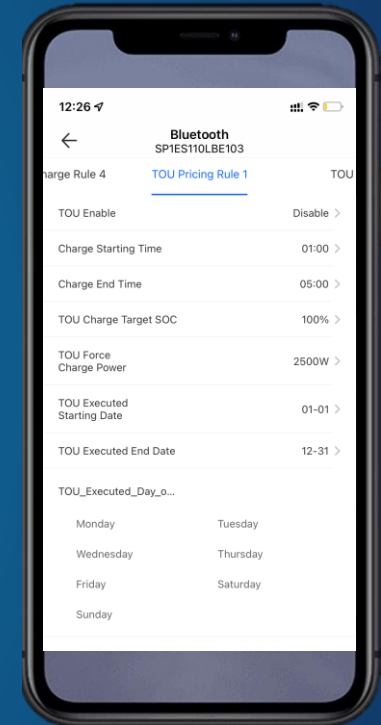
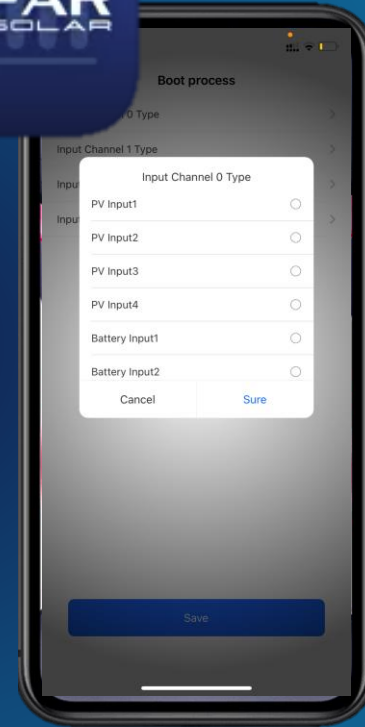
Monitor System

02 Sofar View App



The new SOFAR View App for iOS and Android!

- All Monitoring functions
- Make initial setup and advanced settings on Inverters
- Connection with integrated Bluetooth interface on all G3 inverters (incl. HYD -3PH)



Monitor System

02 Sofar View App



1. Activate Bluetooth on your mobile phone
2. On inverter, go to LCD menu “Advanced Settings” (Password 0001)
3. Select menu “RC control” -> “activate” to activate the Bluetooth interface
4. Start the App in your phone and search for device

Basic password: 8888 (end customers)
Installers password: 6868

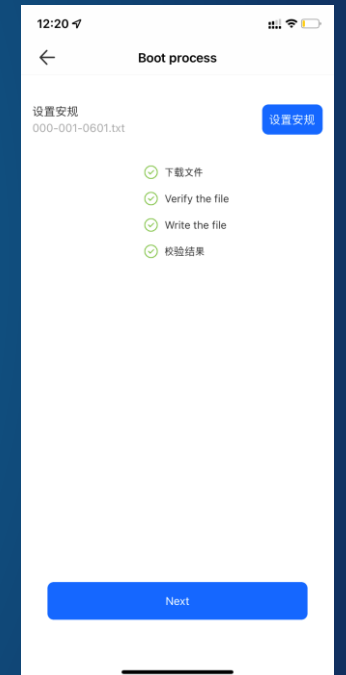
Country



Grid Code



Setting progress



Monitor System

02 Accessories – Energy Meter



901.00000048-1	Smart Meter (3-phase)	Chint DTSU666 1,5(6)A	3-phase Smart Meter Chint DTSU666 (external CT's required) for HYD 5...20KTL-3PH, ME 5...20KTL-3PH Electricity meter DTSU666 3X230/400V 0.05-1.5(6)A 50/60Hz 6400imp/kWh Cl.0, 5S(Cl.C) Preset: current ratio 40:1, baud rate 9600, communication address 1 (scope of supply in HYD 3PH inverter)
901.00000058-0	Smart Meter (3-phase)	Chint DTSU666 5(80)A	3-phase Smart Meter Chint DTSU666 (direct connection up to 80A) for HYD 3PH inverters
901.00000057-0	Smart Meter (1-phase)	Chint DDSU666 (* /100mA)	1-phase Smart Meter Chint DDSU666 (CT connection) 230V*/100mA 800imp/kWh) (current ratio 2000:1, baud rate 9600, communication address 1). Needed current Transformer: LCTA9CC-200A/100mA
901.00000054-0	Smart Meter (1-phase)	Chint DDSU666 5(80)A	1-phase Smart Meter Chint DDSU666 (direct connection up to 80A)

02 Accessories – CT's



014.01200011-0	CT Kit 300A (for 3-phase HYD/ME inverters)	STM HY94C1-300	1 x current transformer for: HYD 5...20KTL-3PH or ME 5...20KTL-3PH 300A/100mA (Ratio: 1:3000) for direct connection at the inverter CT input. 3 Pieces needed per Inverter
014.01200015-0	CT Kit 120A (for 1-phase SOFAR/HYD/ME inverters)	STM HY33C1	1 x current transformer for: - HYD 3...6KTL-EP / -ES series (1 piece needed) - ME 3000-SP (2 pieces needed for 1-phase grid / 4 pieces needed for 3-phase grid) - and all SOFAR 1-phase inverter (1 piece needed) for direct connection at the inverter CT input. 120A/40mA (Ratio: 1:3000)
014.01200008-0	CT Kit 200A (for DTSU SmartMeter)	STM HY94C5-200	1 current transformer, 200A/5A to connect to 3-phase SmartMeter Chint DTSU666 1,5(6)A
014.00100026-0	CT Kit 600A (for DTSU SmartMeter)	STM HY94C5-600	1 current transformer 600A/5A to connect to 3-phase SmartMeter Chint DTSU666 1,5(6)A
014.01200012-0	CT Kit 200A (for DDSU SmartMeter)	HY94C2,200A/100mA	1 current transformer 200A/100mA to connect to 1-phase SmartMeter Chint DDSU666 (* /100mA)

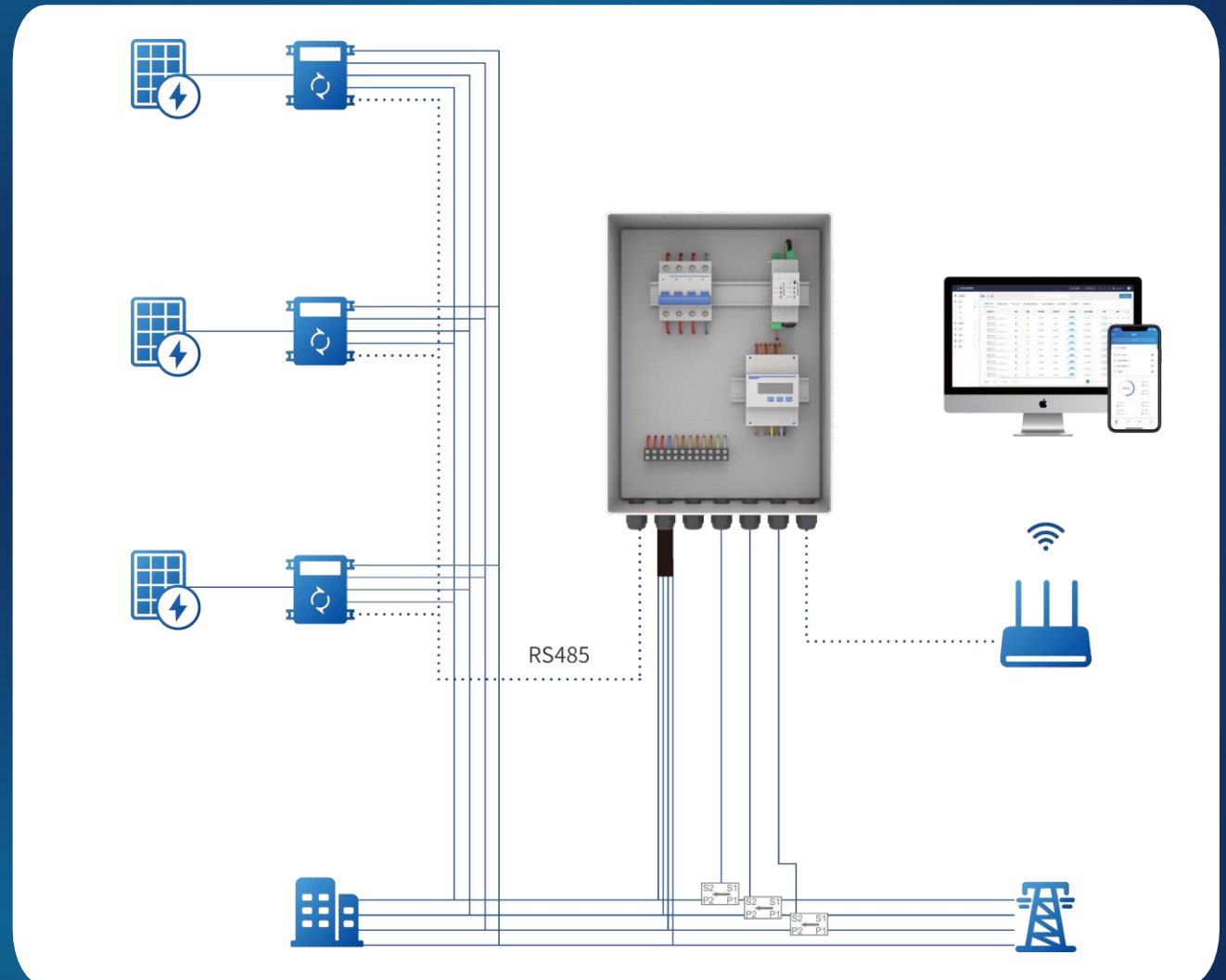
Monitoring of consumption day and night (independent of inverter operation)



901.00000102-0	1-Phase Smart Meter (WiFi)	DDZY422-D2-WiFi	for Energy measurement and transmission to SOLARMAN portal (24h/7d) Nominal Voltage: 230 V Max. Current: 60 A (Direct Connection) Max. Power: 13 kW Communication method: WiFi
901.00000103-0	1-Phase Smart Meter (GPRS + Data Service)	DDZY422-D2- GPRS	for Energy measurement and transmission to SOLARMAN portal (24h/7d) Nominal Voltage: 230 V Maximum Current: 60 A (Direct Connection) Max. Power: 13 kW Communication method: WiFi 5 years data service for Europe included
901.00000101-0	3-Phase / 2-way Smart Meter (WiFi)	DTSD422-D3-WiFi	for Energy measurement and transmission to SOLARMAN portal (24h/7d) Nominal Voltage: 3 x 230/400 V Max. Current: 6 x 5 (100) A Max. Power: 66 kW Includes 6 CT's (100 A) Communication method: WiFi
901.00000100-0	3-Phase / 2-way Smart Meter (GPRS)	DTSD422-D3- GPRS	for Energy measurement and transmission to SOLARMAN portal (24h/7d) Nominal Voltage: 3 x 230/400 V Max. Current: 6 x 5 (100) A Max. Power: 66 kW Includes 6 CT's (100 A) Communication method: GPRS (without SIM card)

02 Accessories – Feed-in Limit / Zero-feed-in

- Limit the power of multiple Sofar inverters
- works with SOFAR G3
- A whole set includes: Three-phase meter, DIN-rail power supply, DIN-rail logger (WiFi/Ethernet), Breaker, IP65 Housing (Notice: CT is not included!)



Product Model	SAR-100
Remote Communication	2.4G WiFi+Ethernet
Local Communication	RS 485
No. of Connections	10
Power Regulation Period	5s
Accessing Method	Three-Phase Four-Wire/Three-Phase Three-wire
Working Voltage	3x230/400V 50/60Hz
Working Current	3x1.5(6)A
CT (Regular)	250/5A, 600/5A, 800/5A, 1000/5A, 1500/5A, 2000/5A
IP Grade	IP65



901.00000020-0	Ethernet Stick LSE-3 (DB-9)	LSE-3A0251	for monitoring single SOFAR inverter generation G1 and G2
901.00000060-0	Ethernet Stick LSE-3 (USB)	LSE-3B3251	for monitoring single SOFAR inverter generation G3 / HYD 3PH
901.00000034-1	WiFi Stick LSW-3 (DB-9)	LSW-3A0253-C (neutral)	for monitoring single SOFAR inverter generation G1 and G2
901.00000047-1	WiFi Stick LSW-3 (USB)	LSW-3B3253-C	for monitoring and control single SOFAR inverter generation G3 / HYD 3PH
901.00000041-2	GPRS Stick LSG-3 (DB-9)	LSG-3A0201-C	for monitoring of single SOFAR inverter generation G1 and G2. Card slot version, without SIM card
901.00000049-0	GPRS Stick LSG-3 (DB-9)	LSG-3A0231-C	for monitoring of single SOFAR inverter generation G1 and G2. Card slot version with Europe SIM card. Data service "Option 2" has to be ordered seperately!
901.00000055-1	GPRS Stick LSG-3 (USB)	LSG-3B3203-C	for monitoring of single SOFAR inverter generation G1 and G2. Card slot version, without SIM card
901.00000042-0	LTE Stick LS4G-3 (USB)	LS4G-3A0201	for monitoring of single SOFAR inverter generation G3 and HYD 3PH Card slot version, without SIM card, suitable for Europe and Australia
901.00000052-0	LTE Stick LS4G-3 (DB-9)	LS4G-3A0203-C	for monitoring of single SOFAR inverter generation G1 and G2. Card slot version, without SIM card, suitable for Europe. Supports SIM cards from Poland: Play, Plus, T-Mobile, U- Orange
901.00000062-0	LTE Stick LS4G-4 (USB + Data Service)	LS4G-4B3203-C	for monitoring of single SOFAR inverter generation G3 and HYD 3PH Card slot version, with SIM card and Data Service for 5 years in Europe

A large, semi-transparent globe with a grid of latitude and longitude lines, centered on the Atlantic Ocean, serving as a background for the central text.

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03 SOFAR 1100...3300TL-G3



Smallest inverter for 1-phase residential

03 SOFAR 3...6KTLM-G3



10 kg
Compact design, light weight

150% PV overload
Better utilization of inverter

Max. 98.4%
More energy output

WiFi/GPRS/Ethernet/RS485
Smart monitoring

wide voltage design max. 550 V
makes power generation higher



G3

Better customized for small PV systems

03 SOFAR 7...10.5KTLM-G3



15 kg
Compact design, light weight

WiFi/GPRS/Ethernet/RS485
Smart monitoring

3 MPPT
High current 20 / 16 / 16 A



150% PV overload
Better utilization of inverter

Max. 98.1%
More energy output

wide voltage design max. 500 V
makes power generation higher

G3

Best for 1-phase markets

03 SOFAR 3...12KTLX-G3



3-phase inverter 2 MPPT
Ideal for residential systems

150% PV overload
Better utilization of inverter

WiFi/GPRS/Ethernet/RS485
Smart monitoring

Max. 98.4%
More energy output

High current
15A MPPT current

wide voltage design max. 550 V
makes power generation higher



3-phase residential PV inverter

03 SOFAR 15...24KTL-G3 / 25...50 KTL-G3



3-phase inverter up to 4 MPPT
Ideal for commercial systems

WiFi/GPRS/Ethernet/RS485
Smart monitoring

Surge Protection
Type II on both AC and DC side
integrated



150% PV overload
Better utilization of inverter

Max. 98.6% ... 98.9% Efficiency
More energy output

wide voltage design max. 1100 V
For extra long PV strings

Also as 480 VAC available

G3

3-phase PV inverter for commercial systems

03 SOFAR 60...80 KTL-G3



3-phase inverter 6 MPPT
Ideal for large commercial systems

WiFi/GPRS/Ethernet/RS485
Smart monitoring

Surge Protection
Type II on both AC and DC side
integrated



150% PV overload
Better utilization of inverter

Max. 99.0% Efficiency
More energy output

Max 1100 V / Max. 20A per String
For long PV strings / bi-facial panels

Also as 480 VAC available

G3

3-phase PV inverter for industrial and ground mounted systems

03 SOFAR 75...136KTL-HV



**AC / DC dual power supply
redundant design**
24-hour status monitoring

**(8...12) MPPT trackers with
50% overload on DC side**
improves efficiency

IP 66 / C5
withstands harsh environments



**3rd Generation software
platform**
make inverter more smart

AC power
+10% AC power (121 kVA for
100KTL inverter)

Type-II SPD
for both AC and DC sides
Provide better protection

Better Suitable for Commercial and large-sale Power Stations

03 SOFAR 255KTL-HV



1500V: Lower AC line loss;
4MW+, bigger subarrays

12 MPPT design, 15A max
input for single string,
compatible bi-facial panels

IP 66 / C5
withstands harsh environments



AFCI (arc fault protection)
(in development)

PLC communication
(in development)
less communication cable and
construction

Power inverter for Utility scale PV plants

03 ME 3000-SP: Battery Inverter



Compatible with other brands of inverters

For almost all PV system types

PV, wind energy, combined heat and power plants

Smart battery energy management system

Better match with battery and inverter



Variety of work modes

To facilitate flexible mode switching

4 CT inputs

For PV and 3-phase grid-control

Storing solar energy simply and cost-effectively

03 HYD 3...6KTL-EP



Compatible with on-grid and off-grid
Suitable for storage systems

EPS function
Switching time is less than 10ms

Smart battery energy management system
Better match with battery



Variety of working modes

Auto Self-consumption
Timing / Time of Use
Offgrid
Passive Mode
Genset charging

Parallel mode

Up to 6 inverter master / slave

HYD storage system 24 hours with you

03 HYD 5..20KTL-3PH hybrid inverter



Grid-tied and offgrid mode

Suitable for GTX3000-H, BTS and Pylontech, Weco, Lead acid etc.

Active Power Filter (APF) function

improve grid power quality

2 MPPT inputs

more flexible configuration



Multiple parallel systems

Up to 10 units in master slave, also in Offgrid mode

On- / Offgrid switching integrated

2 Battery inputs

Flexible configuration and expansion

Three Phase HYD Inverter, Save More

03 Energy Storage GTX 5000-PRO



Multiple parallel systems
up to 4 systems in parallel

Compatible with SOFAR
hybrid and storage inverters

Proven 48 V Technology

Remote diagnosis and real-
time data monitoring.

One-button
automatic assignment of
parallel ID, simple and
convenient operation

CATL brand battery, long cycle
life (6000 cycles)



Compatible well with on grid and off grid system

03 High Voltage Energy Storage GTX 3000-H4...H10



Compatible with SOFAR
Hybrid and Storage inverters

Remote diagnosis
and real-time data
monitoring.

Built-in LFP battery
longer service life, higher energy
density



4-10 batteries stacked use
wider voltage range, bigger
battery extended capacity

One-button automatic
assignment of parallel ID,
simple and convenient
operation

Black Start
Startup without grid power

Compatible well with on grid and off grid system

03 Intelligent Energy Storage PowerALL / BTS



New product launch Intersolar 2022

A large, semi-transparent globe with a grid pattern, centered on the Atlantic Ocean, serving as a background for the central text.

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Pre-sales Support

- Technical consulting
- System design
- Product Training
- 1st Installation support

On-sales Support

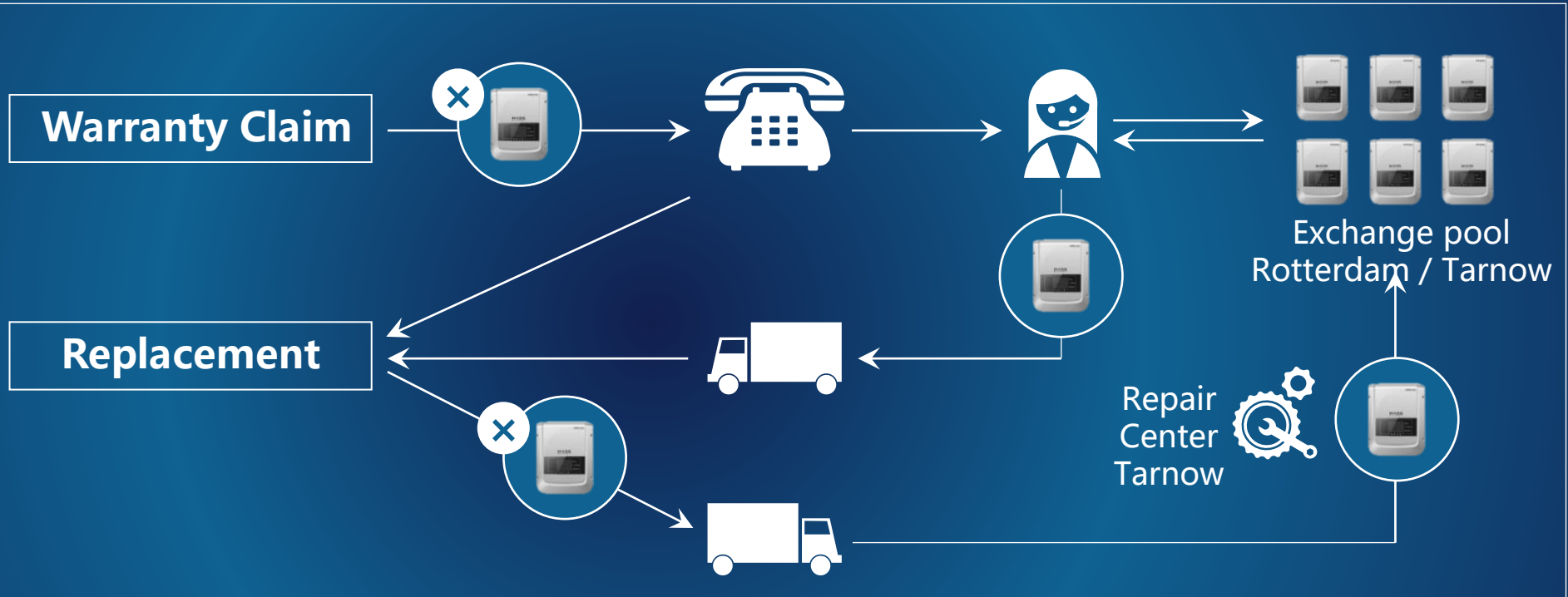
- Warehouse Rotterdam
- Logistics & Live Tracking
- On-time delivery

After-sales Support

- Free Software Upgrade
- Warranty Replacement
- Warranty Extension
- Thulium Ticket phone system
- Online Service tool

04 Europe Service

Service Concept



04 Europe Service – Online System

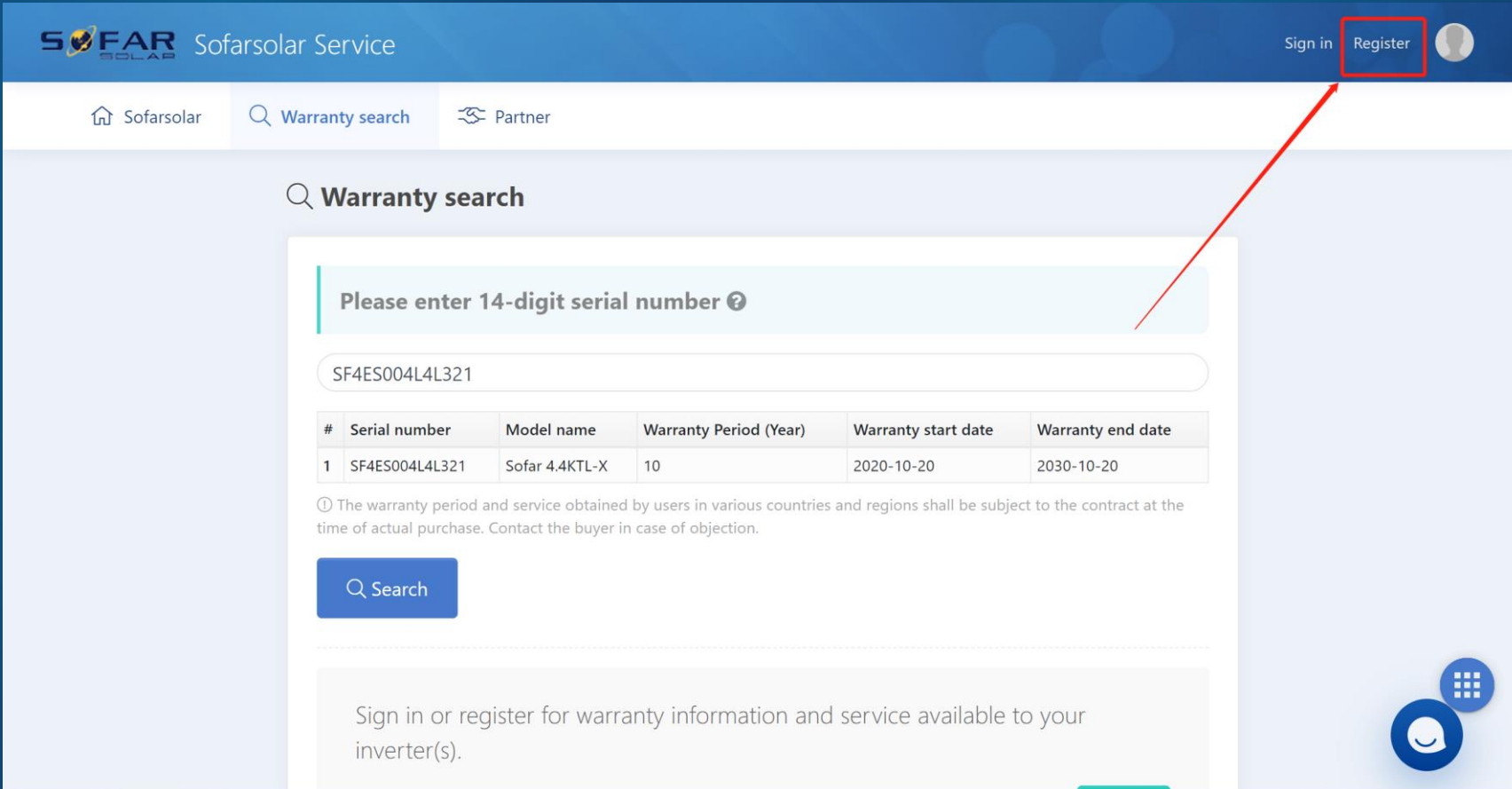


<https://service.sofarsolar.com>

The screenshot displays the Sofarsolar Service website interface. At the top, the Sofarsolar logo and 'Sofarsolar Service' text are on the left, while 'Sign in' and 'Register' links with a user profile icon are on the right. Below the header is a navigation bar with 'Sofarsolar', 'Warranty search', and 'Partner' options. The main content area features a 'Warranty search' section with a light blue header that says 'Please enter 14-digit serial number'. Below this is a text input field labeled 'Serial number' and a blue 'Search' button. A dashed line separates this from a message that reads 'Sign in or register for warranty information and service available to your inverter(s)', with a green 'Sign in' button to the right. In the bottom right corner, there are two circular icons: one for a chat bubble and another for a grid of services.

04 Europe Service

To create a new account, please click on “Register”.



SOFAR SOLAR Sofarsolar Service

Sign in Register

Sofarsolar Warranty search Partner

Warranty search

Please enter 14-digit serial number ⓘ

#	Serial number	Model name	Warranty Period (Year)	Warranty start date	Warranty end date
1	SF4ES004L4L321	Sofar 4.4KTL-X	10	2020-10-20	2030-10-20

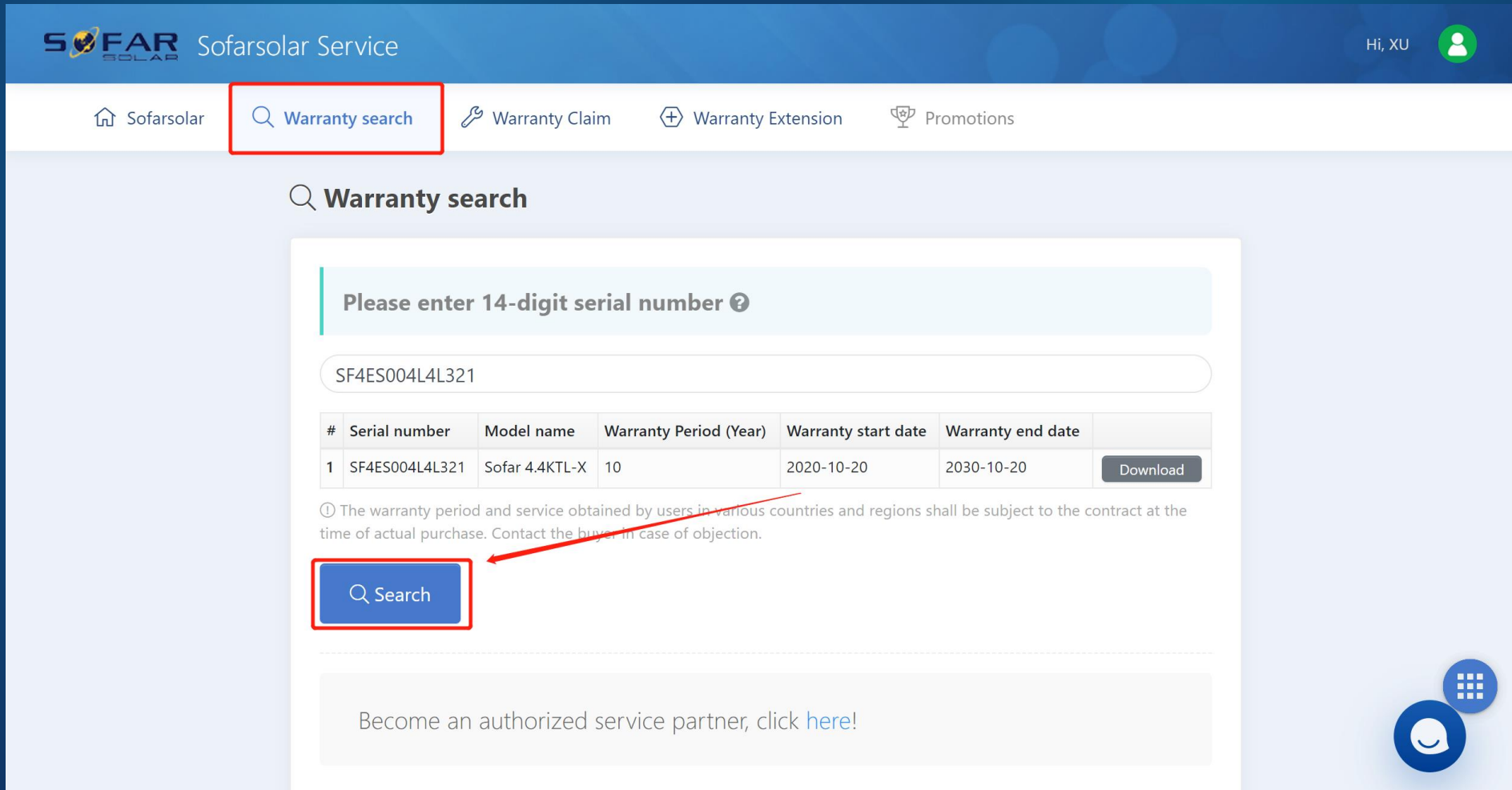
ⓘ The warranty period and service obtained by users in various countries and regions shall be subject to the contract at the time of actual purchase. Contact the buyer in case of objection.

Search

Sign in or register for warranty information and service available to your inverter(s).

04 Europe Service

Please enter the serial number of the inverter, then click on “Search”.
The search result will show the inverter model and warranty information.



The screenshot shows the Sofarsolar Service website interface. At the top, the Sofarsolar logo and 'Sofarsolar Service' are visible on the left, and 'Hi, XU' with a user profile icon on the right. A navigation bar contains icons for Sofarsolar, Warranty search (highlighted with a red box), Warranty Claim, Warranty Extension, and Promotions. Below this, the 'Warranty search' section is active, featuring a search prompt: 'Please enter 14-digit serial number ?'. A text input field contains the serial number 'SF4ES004L4L321'. Below the input is a table with the following data:

#	Serial number	Model name	Warranty Period (Year)	Warranty start date	Warranty end date	
1	SF4ES004L4L321	Sofar 4.4KTL-X	10	2020-10-20	2030-10-20	Download

Below the table, a disclaimer states: 'The warranty period and service obtained by users in various countries and regions shall be subject to the contract at the time of actual purchase. Contact the buyer in case of objection.' A red arrow points from this text to a blue 'Search' button (also highlighted with a red box) located below the disclaimer. At the bottom of the page, there is a call to action: 'Become an authorized service partner, click [here!](#)' and a chat icon.

04 Europe Service: Warranty Claim



To create a warranty claim, please click on “New Claim”

Warranty Claim

Warranty claim process
1.Submit a claim → 2.Claim Processing → 3.Outcome → 4.Feedback

Search claim id, end user name, sn

+ New Claim Draft Processing Finished Cancelled

Case ID	End user name	Serial number	Current handler	History handlers	Status	Action
WR-20201119-002	Fisher XU	SF4ES004L4L321	XU	XU, 许弘瑜, 许弘瑜	Finished, not rated	Process
WR-20201119-001	Fisher XU	SF4ES004L4L321	XU	XU, 许弘瑜, 许弘瑜	Finished, not rated	Process

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A large, semi-transparent globe showing the continents of Europe, Africa, and Asia, serving as a background for the central text.

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05 References – PV Systems



Brazil 2 MW



Pakistan 200 kW



Vietnam 1 MW



India 1.2 MW



South Korea 10 MW



Netherlands 800 kW



05 References Storage Systems



Niederlande



Deutschland



Südafrika



Australia



Südafrika



Zimbabwe

Thank you for your attention



europe@sofarsolar.com | www.sofarsolar.eu