



YOUR BEST CHOICE FOR
String Inverter, Storage Inverter and Battery



Shenzhen SOFARSOLAR Co., Ltd.



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02 | Products and Technology

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01 About SOFARSOLAR



01 About SOFARSOLAR



R&D centers

Shenzhen, Shanghai, Wuhan

Marketing layout

China, EMEA, Asia-Pacific, South America

Factories

Dongguan Huizhou
[under construction]

Global branches

20+

01 About SOFARSOLAR

R&D investment accounts for more than **10%** of sales

300+

R&D engineers



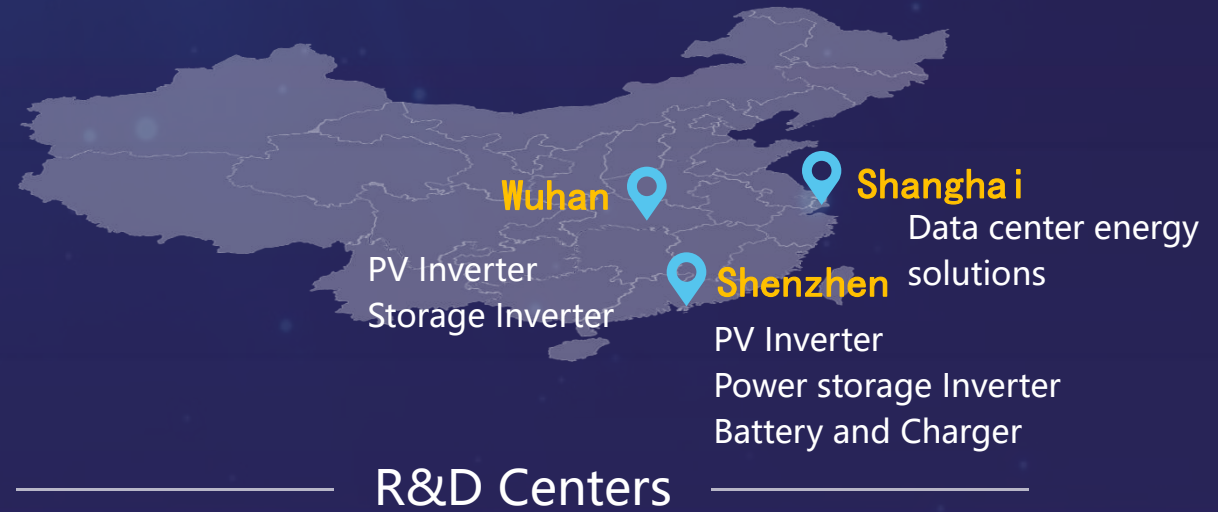
35%+

Master degree

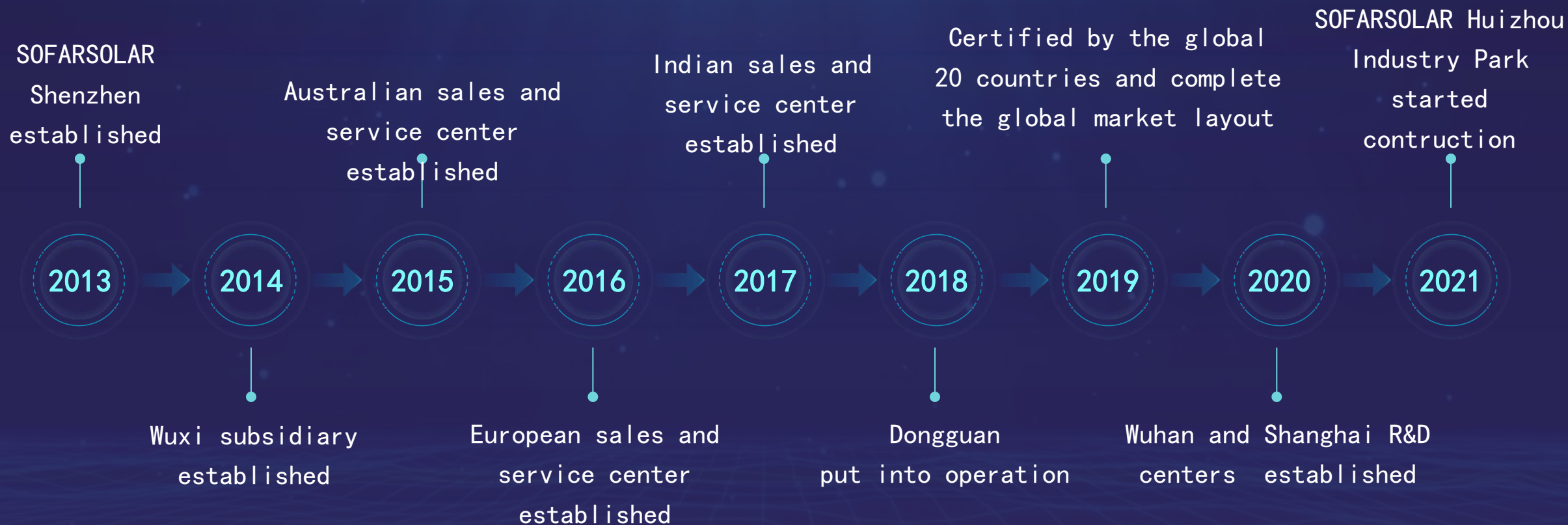


30%+

8 years experience



01 About SOFARSOLAR



01 About SOFARSOLAR



SOFARSOLAR in India

➔ **Head Quarter & Warehouse**
[Ahmedabad]

➔ **Service Center & Warehouse:**
[New Delhi]
[Mumbai]
[Bangalore]

01 About SOFARSOLAR



SOFARSOLAR in Australia

➔ Service Center & Warehouse:

- Service Center: 40 Tamworth Crescent, Hoxton Park, 2171 NSW
- Warehouse 1: Unit 15, 7 – 15 Gundah Road (Enter via Gate 3), Mount Kuring-Gai, NSW 2080
- Warehouse 2: 25-27 Mickle St, Dandenong South, VIC, 3175
- Warehouse 3: Building 3C, 400 Nudgee Road, Hendra, QLD 4011



SOFARSOLAR in Europe

➔ Service Center & Warehouse:

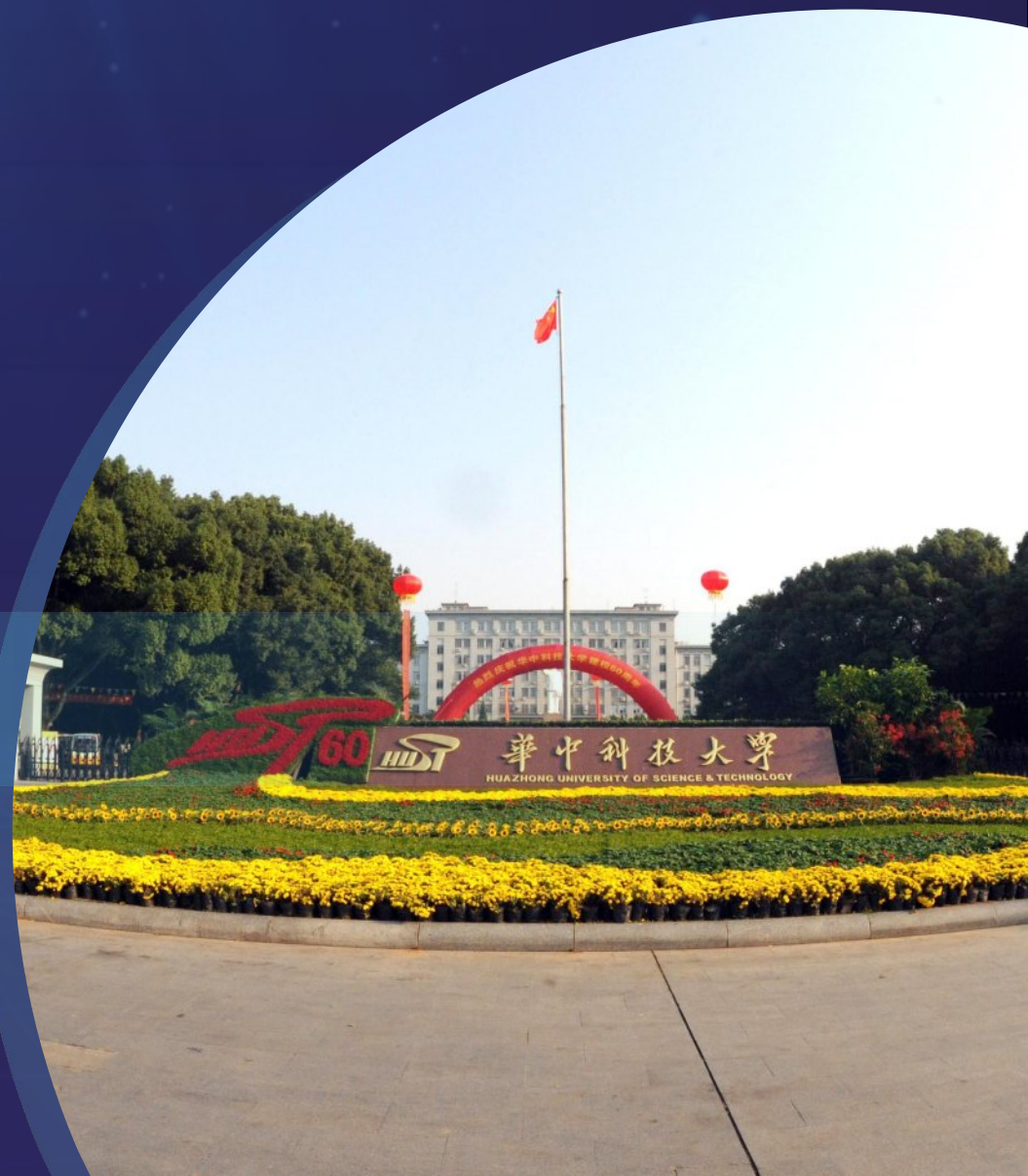
- Ul. Jórskiego 30, 03-584 Warszawa
- ROTRA LOGISTICS SOLUTIONS B.V.
- VERHUELLWEG 5
- 6984 AA DOESBURG
- THE NETHERLANDS

01 About SOFARSOLAR

100+
patents

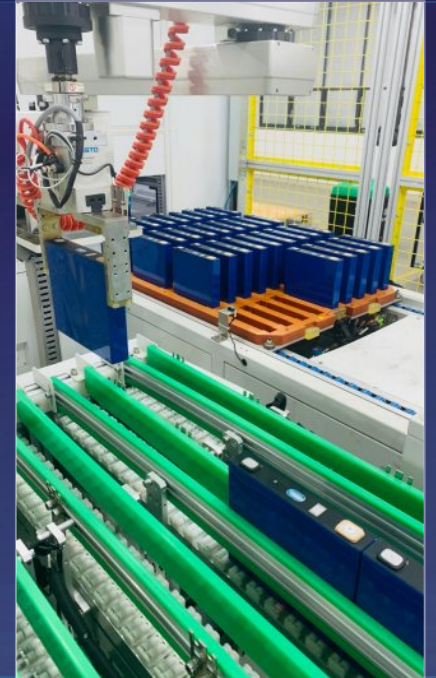


SOFARSOLAR and Huazhong University of Science and Technology joint establish a scientific research center to achieve new breakthroughs in power storage conversion and system integration



01 About SOFARSOLAR

- Manufacturing Base:
100,000+ m²
 - Automatic Product Line:
10+
-

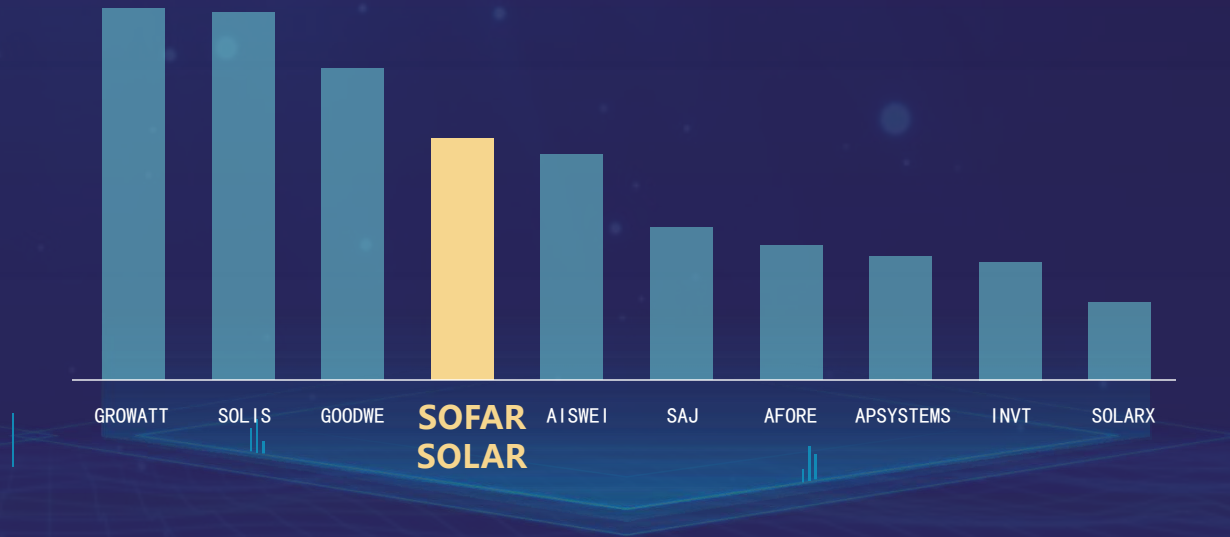


01 About SOFARSOLAR Global ranking 2018-2019

PVBL
2018 PV brand rankings



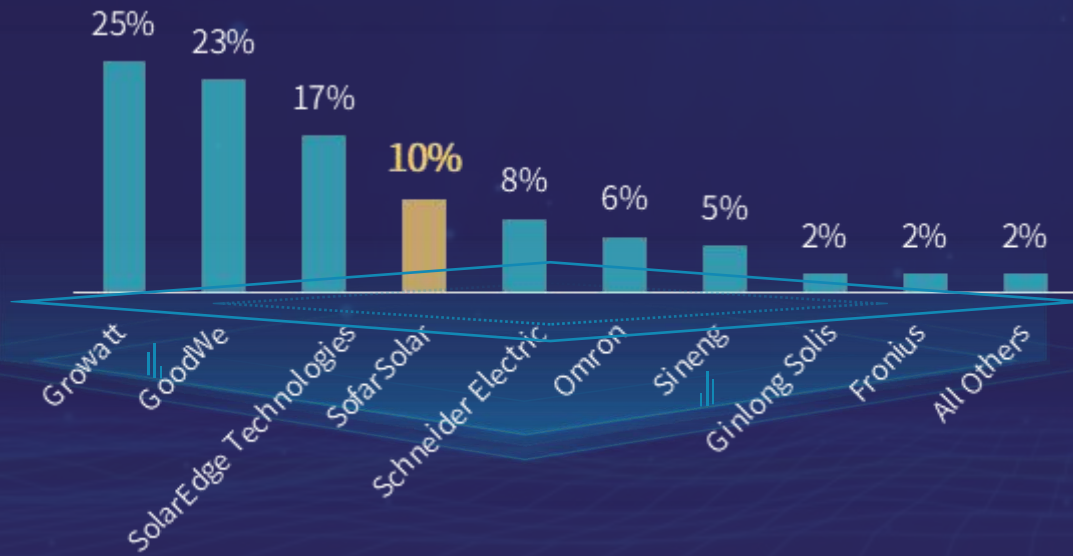
PVBL
2019 PV brand rankings



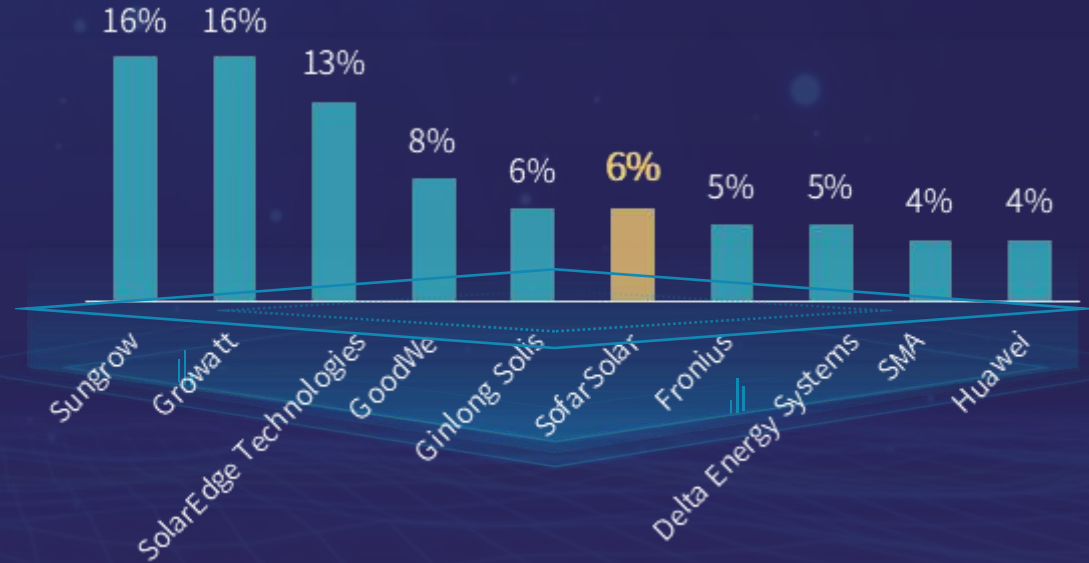
String Inverter
TOP5

01 About SOFARSOLAR Global ranking 2020

Global power storage inverter shipment

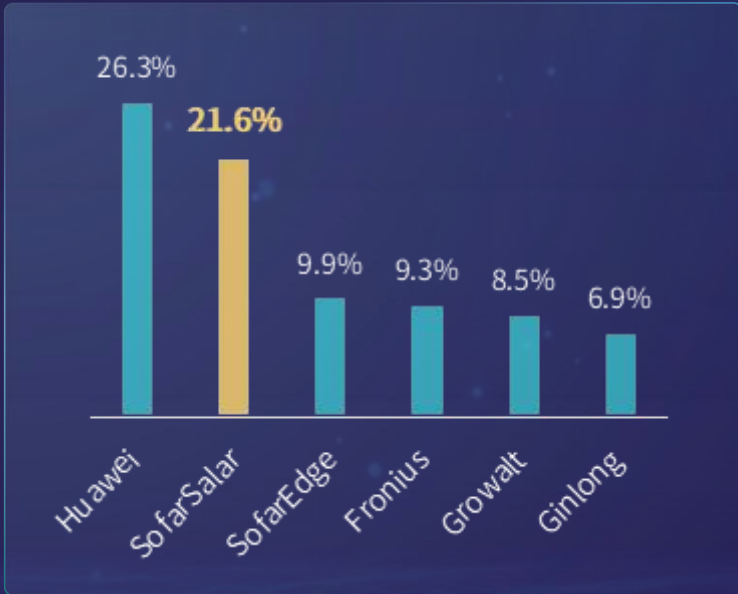


Global single phase inverter shipment

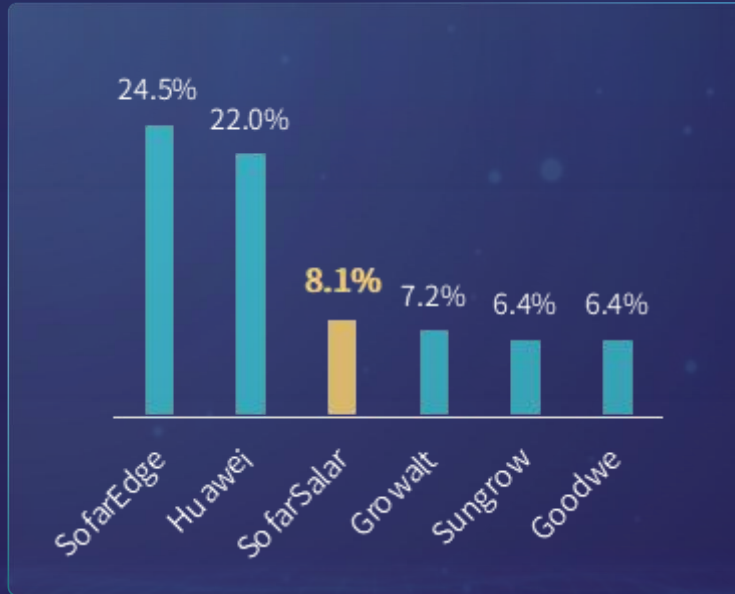


Data source: Wood Mackenzie

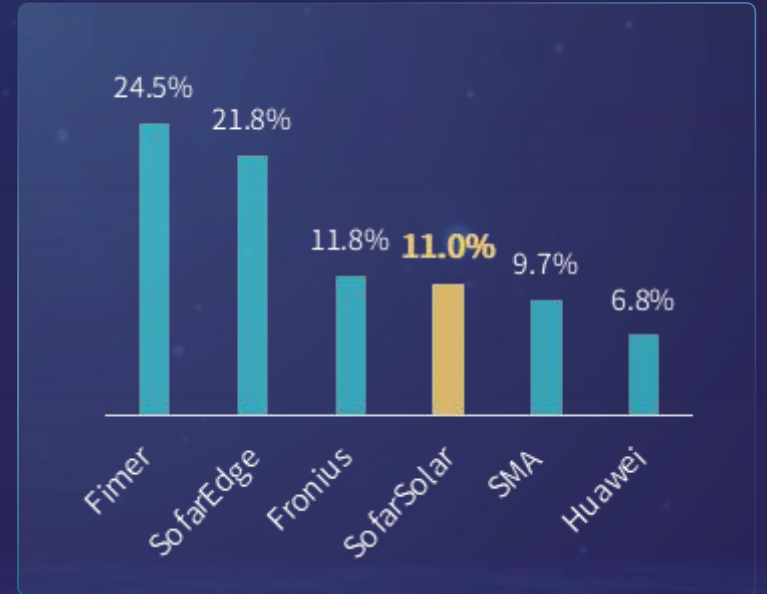
01 About SOFARSOLAR Global ranking 2020



Poland



Netherlands



Italy

01 About SOFARSOLAR

TOP Brand Inverter from EUPD



UK



Poland



India



Brazil

Data sources : EUPD

01 About SOFARSOLAR

Partners





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02 SOFARSOLAR Products

— SOFARSOLAR On-Grid Inverters —

Single Phase Inverters



1.1KTL-G3
~
3.3KTL-G3



3KTLM-G2
~
6KTLM-G2
/7.5KTLM



3KTLM-G3
~
10.5KTLM-G3



3KTLX
~
12KTLX-G3



15KTLX-G3
~
24KTLX-G3



20000TL-G2
~
33000TL-G2



25KTL-G3
~
50KTL-G3



50000TL
~
70000TL-HV



80KTL
~
136KTL-HV



250KTL
~
255KTL-HV

Three Phase Inverters

02 SOFARSOLAR Products

— SOFARSOLAR Power Storage Inverters —

AC Retrofitting



ME 3000SP
ME 5KTL-3PH
~
ME2OKTL-3PH

Hybrid Inverters



Single Phase
HYD-3000-ES
~
HYD-6000-ES

Hybrid Inverters



Single Phase
HYD-3000-EP
~
HYD-6000-EP

Hybrid Inverters



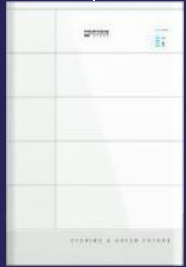
Three Phase
HYD-5KTL-3PH
~
HYD-20KTL-3PH

Battery Package



GTX2000 GTX2500 GTX5000
AMASS Store
Battery

Power Package



GTX 3000
10~25kWh
Power Station

02 SOFARSOLAR Products

Single Phase Inverter

SOFAR 3-6KTL-G3
SOFAR 7K-10.5KTLM-G3
3rd Generation

Three Phase Inverter

SOFAR 60-80KTL-G3
3rd Generation

Storage Inverter

All in one
(HV/LV storage system)

SEP

OCT

NOV

DEC

2021

2022

Q1

Three Phase Inverter
SOFAR 3.3~12KTL-G3
SOFAR 25~50KTL-G3
3rd Generation

Storage Inverter

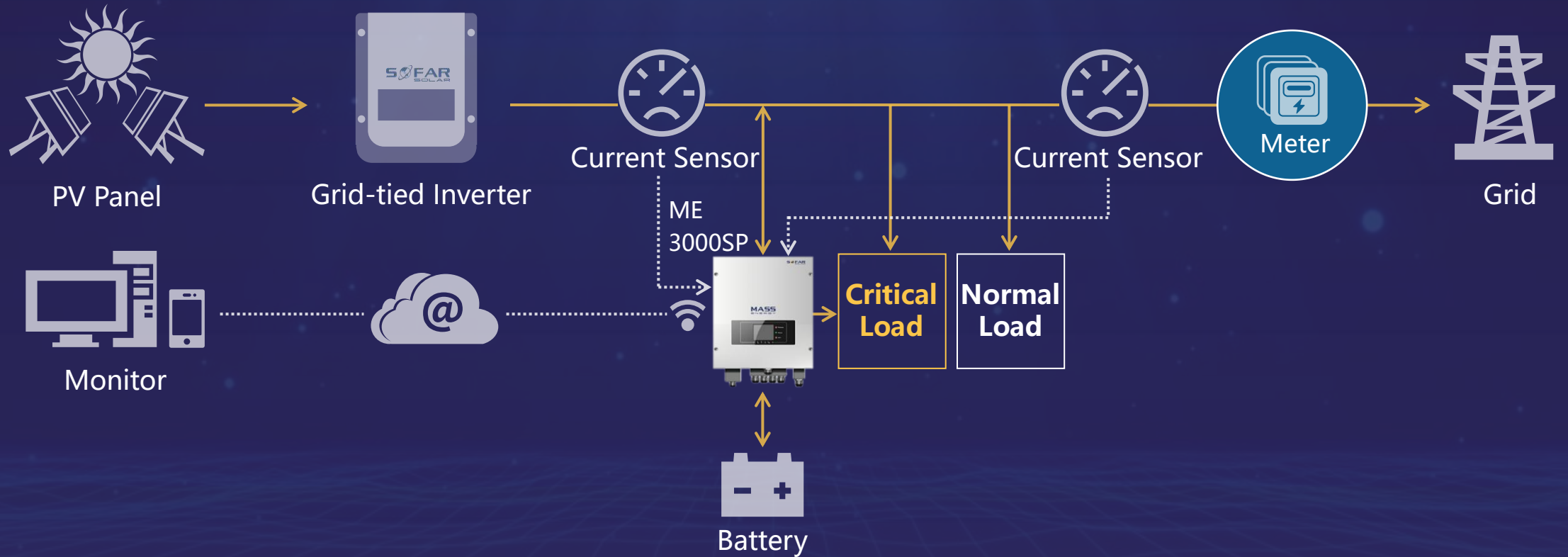
ME 5-20K-3PH

Three Phase Inverter

SOFAR 100-110KTL-G2
2nd Generation

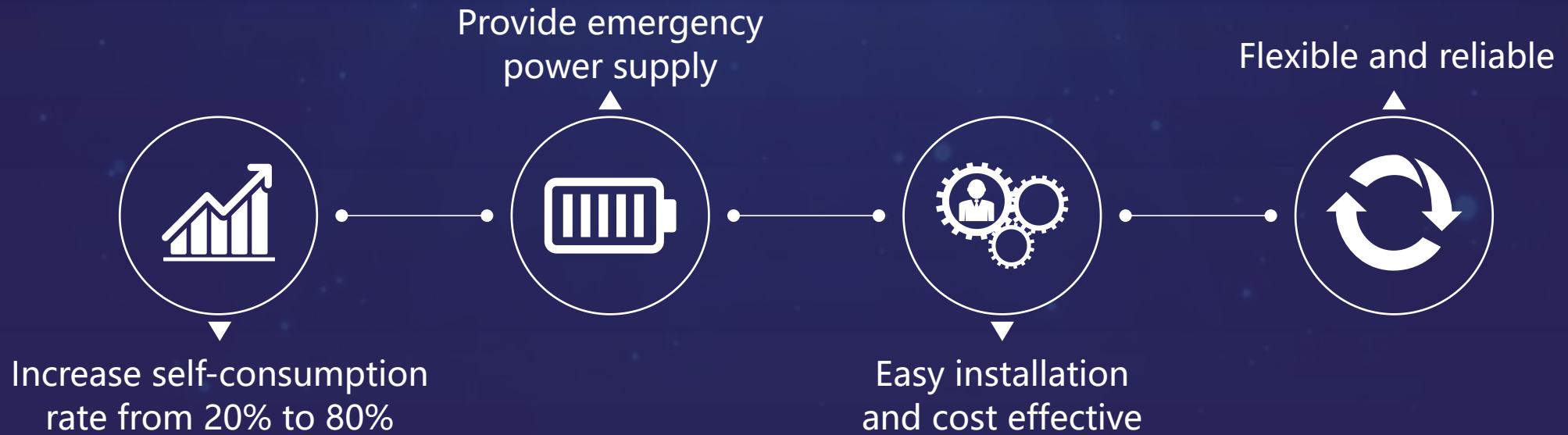
Roadmap

02 Products and Technology



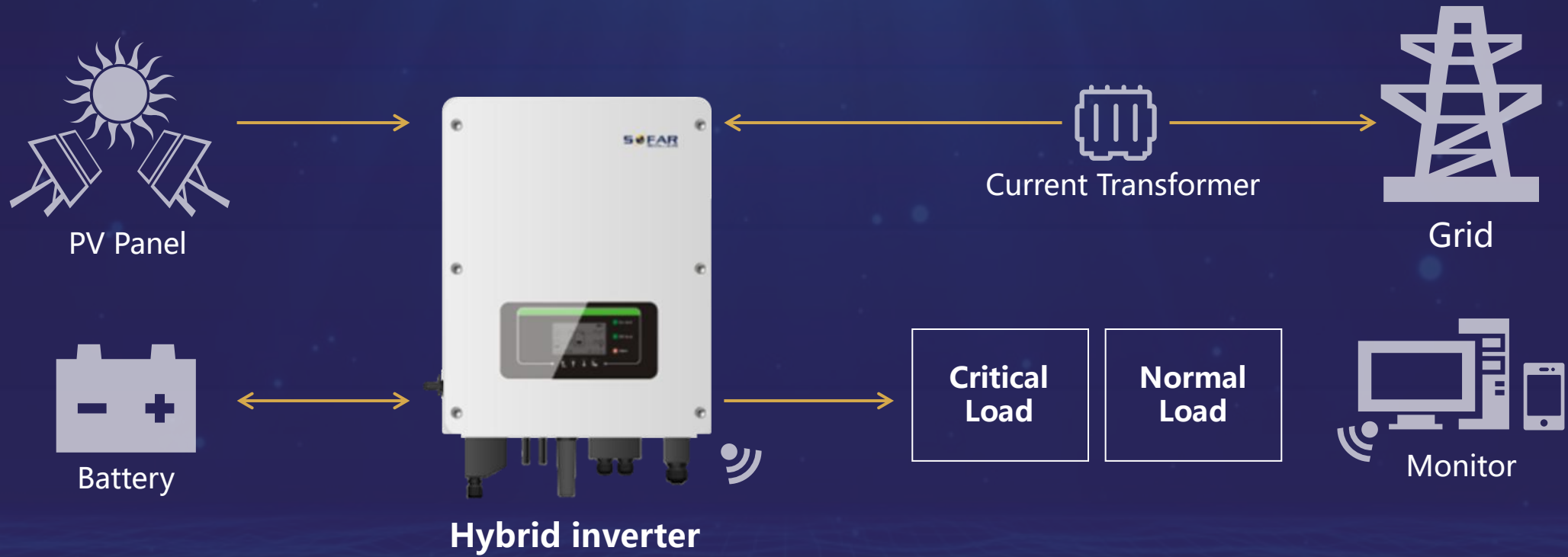
AC Couple Solution

02 Products and Technology



Features of Storage System

02 Products and Technology: HYD Inverter



HYBRID System

02 Products and Technology: Storage Solution

Easy for Installation

- Hybrid inverters + batteries integrated together in one cabinet. From 10kWh (4 pcs) to 25kWh (10 pcs)
- Cables can be connected directly to the connectors in the cabinet.
- Easy to move at home.

Reliable and Safe

- Long life cycle batteries (>6000 times).
- 10 years lifespan.
- Support IP65.

Easier Operation

- Self-designed BMS inside to monitor battery status.
- LED lights, easy-to-read display.
- Easy monitoring on phone (APP) & PC(web).



HYD & Battery

02 Products and Technology: Storage Solution



Five intelligent power management

- Both reactive power and power factor are adjustable for different grids
- Using LVRT (low voltage ride through)
- Management of power de-rating when the unit has an over-frequency situation
- Real time MPPT algorithm
- Over temperature derating
- Built-in zero export



Built-In six protection functions

- Over voltage, Under-voltage protection
- Over frequency, Under-frequency
- Over current, Over load
- Anti-islanding, Current leakage
- Over Temperature Protection
- SPD Type III, Type II (optional)



Seven humanized functions

- Audible & visible alarming function
- Remote system connection or disconnection
- Remote firmware upgrade
- Remote monitoring
- Remote self fault-checking
- Separated design for up & above casing
- Diversified monitoring model and communication

Features for Three Phase Product

02 Products and Technology: Storage Solution



High-yield

- Real time precise MPPT algorithm for max power generation
- Wide input voltage operation range
- Independent dual MPPT tracking ,flexible solar roof system design



Reliable and Safe

- High efficiency low energy loss, low maintenance
- High frequency isolation between battery & PV/grid
- Advanced battery management technology to protect the battery life



Easier Operation

- Free site selection due to IP65
- 4'LCD clear, easy-to-read display
- Easy monitoring on phone(APP) & PC(web)



Multiple working modes

- PV & storage all in one, increases self consumption to 80%+,decreases reliance on the electrical grid, decreases the electricity bill
- Stand alone mode(like UPS) available, ensures safe operation of critical loads
- Multiple operation modes selection: auto mode, time-of-use mode, timing mode, passive mode etc.



Intelligent grid management

- Reactive power capability
- Limits AC output when grid frequency is too high or too low
- Limits AC output when grid voltage is too high
- Built in zero export function(optional)

Features of Hybrid System

02 Products and Technology

Residential System Monitoring



Commercial System Monitoring



Monitor System



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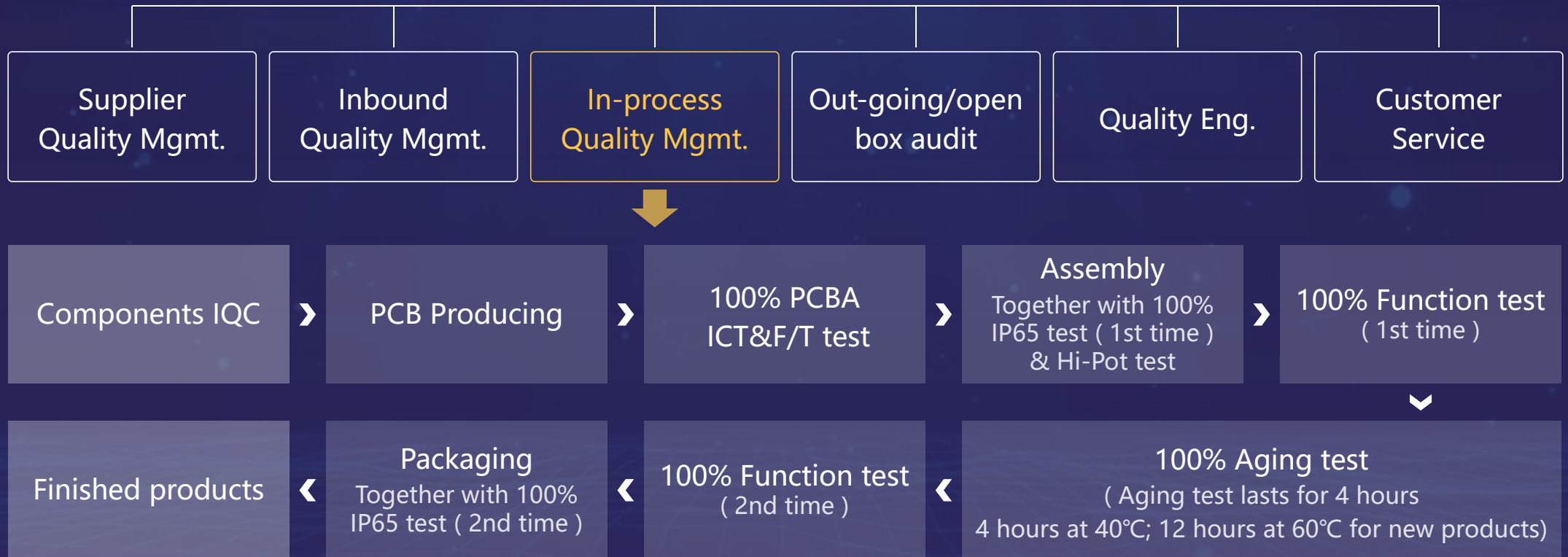
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03 Product Quality

Management System



03 Product Quality

Management System



Incoming



IQC check



Material storage



Issue



PCBA burning



Assembly



QC inspection



Air tightness test



QC inspection



Electric test



T2 test



Aging test



T1 test



Package



Incoming



OQC inspection



Product storage



Ship

03 Product Quality

Modern testing Equipment



Constant temperature aging test

Automatic constant temperature closed aging, with automatic timer switch, computer real-time monitoring, artificial intelligence exchange function, to meet the capacity of 460PCS / day.

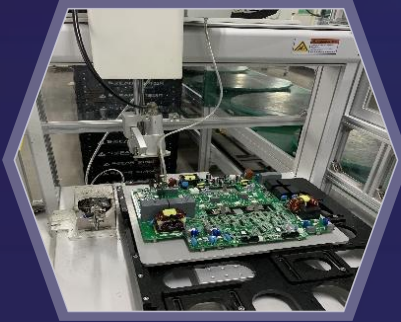


Automatic testing system platform

Comprehensive test of the electrical performance, such as voltage, current, power efficiency, THD and so on. test accuracy can reach 0.1%, 800PCS can be completed every day.

03 Product Quality

Modern testing Equipment



Automatic soldering

Automatic constant temperature four-axis, multi-function solder; independent large screen display, solder joint track; can carry out deep tin penetration on four layers of PCB board.



Automatic screw

Automatically visual precise positioning; automatic completion of stud and screw pick-and-place work; only 2.4 seconds to complete a wire.



Air tightness test

The H-89P (vertical) / T-89P (horizontal) instrument is a lightweight and high precision air leak detector with high quality imported core accessories. Leakage resolution: 1Pa or 0.1ml/min.

03 Product Quality

Modern testing Equipment



Salt spray tester



Marble table



High temperature chamber



HI-POT tester



LCR



DC-supply



Metallurgical microscopy



Leakage current tester

03 Product Quality

Components

MOS IGBT

FAIRCHILD
SEMICONDUCTOR

incotek
The Power to Move Ahead

infineon

IC

ON Semiconductor



TEXAS
INSTRUMENTS

Fuse

Littelfuse

COOPER Bussmann

Current Transducer

LEM

Capacitor

NIPPON
CHEMI-CON

nichicon

Rubycon RUBYCON CORPORATION

Diode

Microsemi

IXYS

Relay

Panasonic

FUJITSU

MCU

RENESAS

03 Product Quality

Certifications



IEC 62109



IEC 60068



IEC 61683



IEC 61727



IEC 62116



IEC 61000



EN 50530



VED 4105



VDE 0126



G59/G83



EN 50438



AS 4777



IEC 60255



IP 65



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04 Worldwide Service

Employees in oversea branches **30+**

Service localization **35+ countries**

Service network **80+ countries**

Global Online Service System

Warranty | Warranty extension | After-sales service

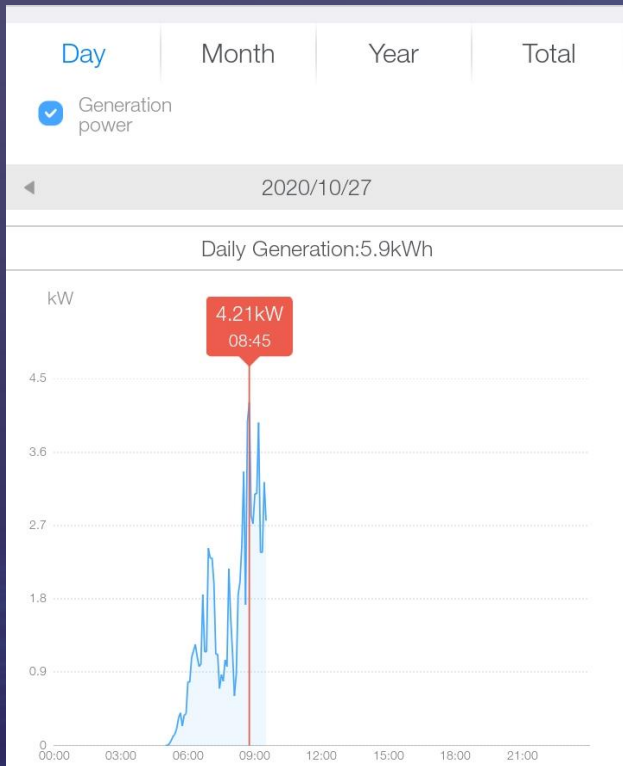


04 Worldwide Service



04 Worldwide Service

Online monitoring system available for iPhone, Android and web Portal.



Sunrise 03:00
23°C Sunset 16:02

Updated: 4Min Ago

Intro | Summary | Device

J.hotch@live.com Owner
No Intro

Current Generation Power **3.96kW** 79%
5kWp

Daily Generation **5.53kWh** Total Generation **3.64MWh**

Daily Revenue

04 Worldwide Service

Monitoring Platform

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.



Monitor System

04 Worldwide Service

Link your customer's plant with your pro account

Go to the "Intro" tab

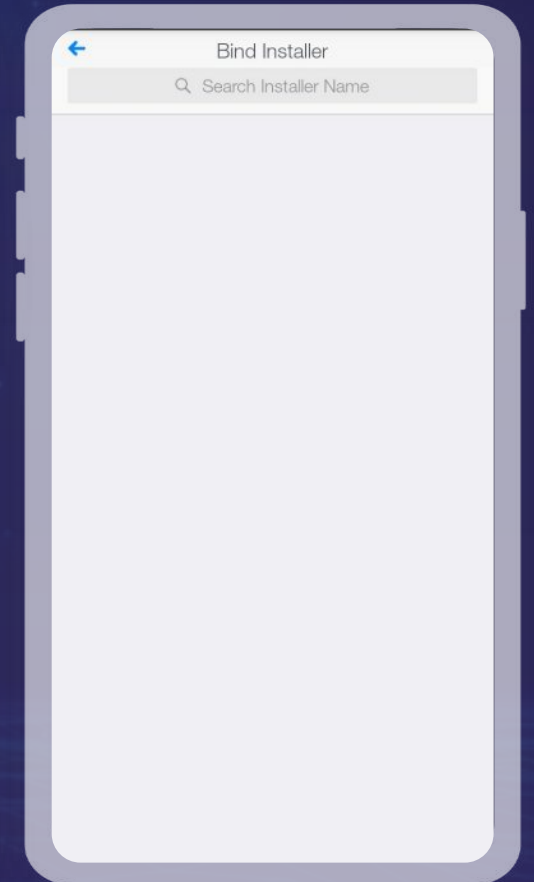
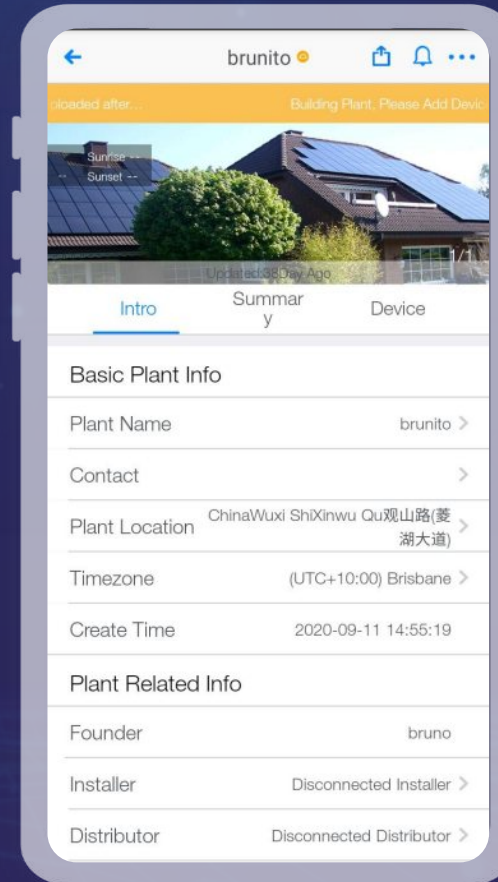
01

On the "Plant Related Info" section, tap "Installer"

02

Search for your business account

03





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SOLAR

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China



Italy



South Africa



Zimbabwe



Germany



Nether Lands



Australia



05 References



Australia



Australia



Indonesia



Australia



Philippines



Australia



05 References



Brazil **2MW**



Nether Lands **800kW**



Vietnam **1MW**



India **1.2MW**



Korea **10MW**



Cambodia **708kW**



05 References



UK 1.5MW



South Korea 2.4MW



Vietnam 1MW



India 1MW



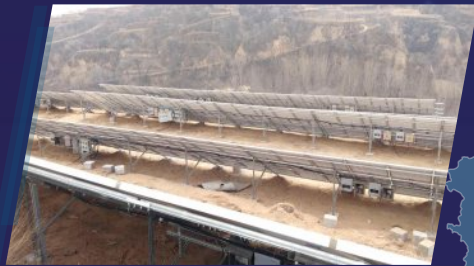
Thailand 100KW



China 2.5MW



05 References



Shaanxi 1.5MW



Shanxi 8MW



Hebei 6MW



Henan 50MW



Luoyang 5MW



Guangdong 1.2MW



Wuxi 2.6MW



05 References



Shanghai
1.2MW



Zhejiang
1.2MW



Shanghai
2.4MW

05 References



Vietnam
10.8MW



India
1.1MW



Yunnan, China
2.8MW



THANKS



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