

TSUNESS

Company Profile

2022

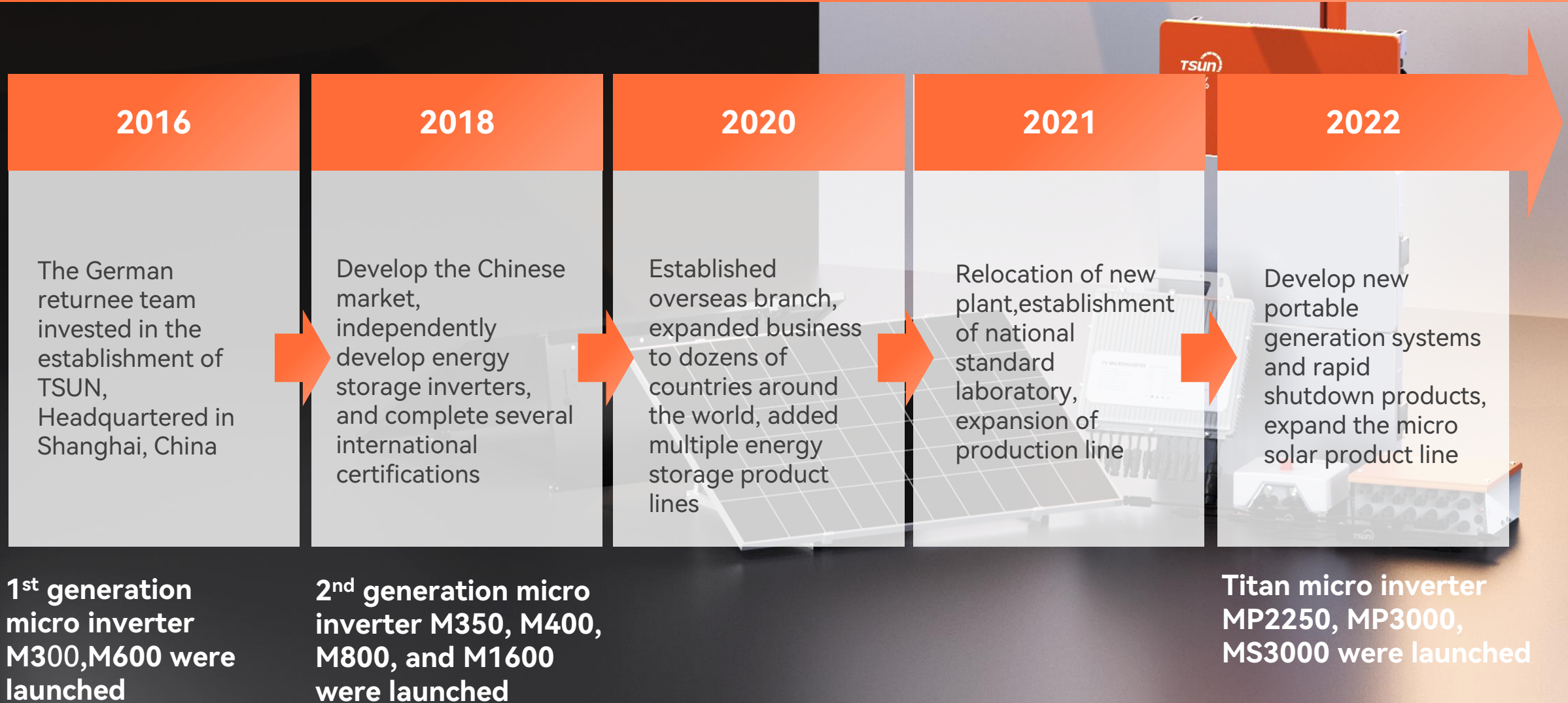


About TSUN

With its German management background and quality assurance system, TSUN is the top brand providing the most efficient, highest ROI and safest solar solution to residential and commercial solar Installations. TSUN has a mature and capable R&D, sales and management team who has more than 10 years' experience in the global PV industry. The team has good knowledge of the global market, with elite R&D team composed with masters and doctors from electrical tech development, storage tech development and new energy project development field, TSUN is more than confident to provide global customers with most user-friendly and cost-effective solutions.



Development History



Company Value

Leading Technology

TSUN has the most advanced photovoltaic and lithium battery energy storage technology and professional overall application solutions to provide green energy for customers intelligently.

Flexible Solutions

TSUN provides customized energy storage solutions for on-grid and hybrid applications at both residential and commercial levels, which helps customers to achieve energy independence and environmental responsibilities.

Safe & Reliable

Certified by international authorities, TSUN products are well recognized for outstanding product safety and reliability.

Global Energy Service Provider

TSUN is helping many countries and regions to advance the clean energy revolution, so clean energy can benefit everyone in the world to the greatest extent.

Core Competitiveness



Experienced
R&D Team



Distribution
Support Program

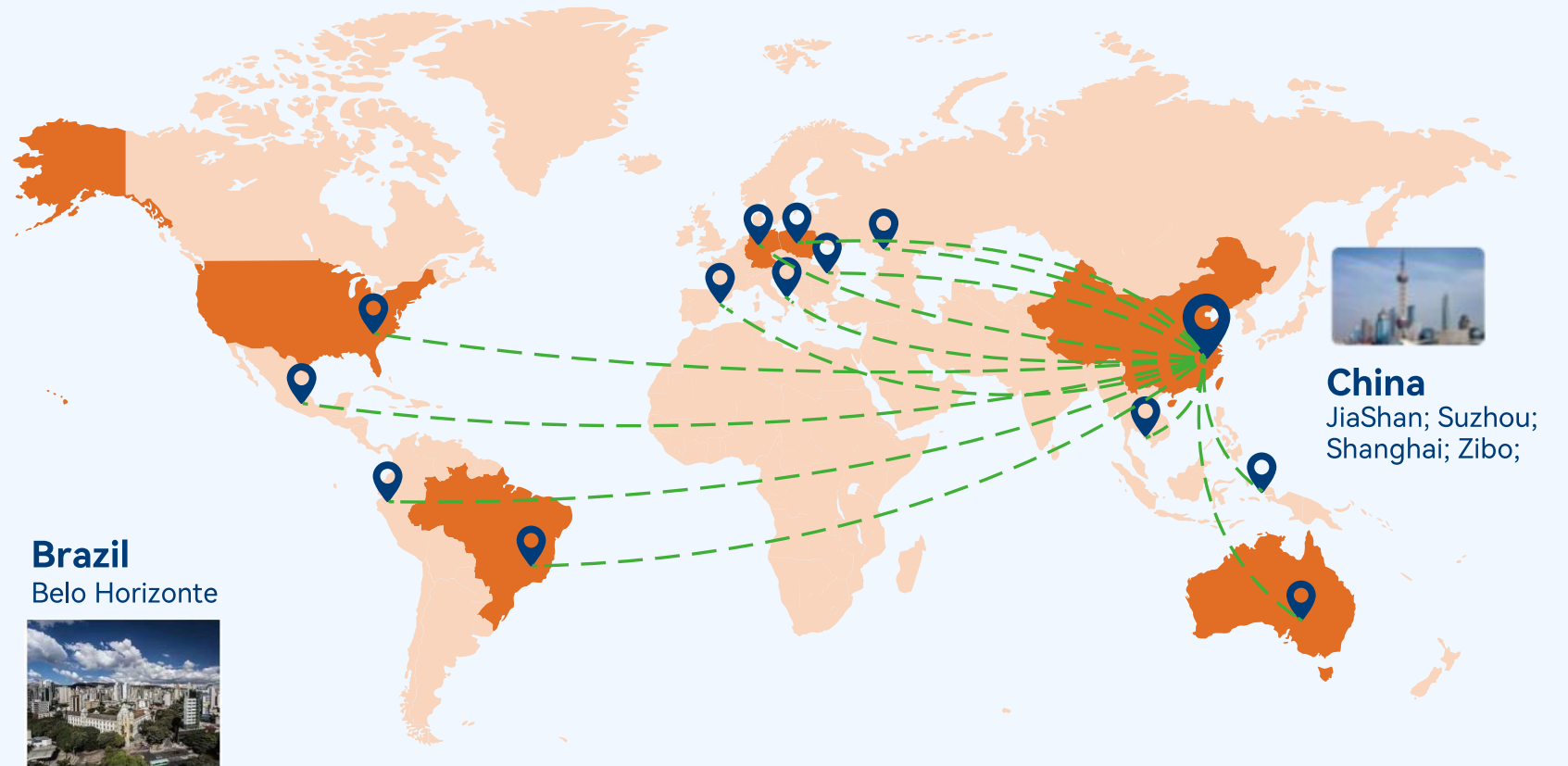


International
Marketing Team



Strong
Manufacturing
Capacity

Globalized Operation



R&D Lab and Advantages



TSUN R&D facilities and constant technological innovation guarantee every TSUN product's remarkable advantages and ensure that TSUN products always stand out from the rest of the competition.



Experienced International R&D Team



Two laboratories with different product lines
Storage with BMS development
On grid with derivative products



Cooperate with World-renowned Universities



Full set of testing equipment allows engineers tests all possible scenarios in house
Strong and professional software simulation technology



Patents, Innovative Technologies

Manufacturing Capabilities



Highly Automated



Advanced Equipment



Professional Operators



Process Management

Customization Factory

Strict quality control: ISO 9001
Sophisticated production process
Patrol inspection and pre delivery inspection



4 Automatic production lines

15000m² clean workshop

Able to meet production demand of

50000 sets of products

International Certification



International Certificates



CE



INMETRO



TUV



VDE 0126



VDE 4105



RD1699

Global Partners



Project Reference



Argentina



China



England



Brazil



Germany



Poland



Japan



South Korea



Microinverter

TITAN Microinverter
MP2500/MP3000/MS3000

Microinverter
M350/M400
M800/M800DE
M1600



Easy Solar Kit

Easy Solar Kit Pop-Up
Sliver/Black

Easy Solar Kit Transformer
Sliver/Black



Energy Storage

All-in-one AC Coupled Unit



Rapid Shutdown

PV-Array level RSD
1-2 Strings/ 3-5 Strings/
6-10 Strings

Module-Level RSD
RSDM-DS/ RSDM-DD/
RSDM-CQ

Product Portfolio

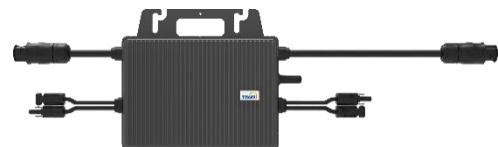
Products Portfolio

Microinverter

TSOL-M350/M400/M800/M1600



M350/M400



M800/M800(DE)



M1600

Maximized Efficiency

Individual optimization, separate dedicated MPPT for each panel.
Max. efficiency up to 96.7%.

Flexibility

Plug & play installation.
Multi-channel MPPT for complex installation environments with higher cost performance.

Safety

Max. DC voltage 60V.
No threat for high DC voltage.

Products Portfolio

Microinverter

TSOL-MP2250/MS3000/MP3000



MP2250



MS3000



MP3000

Biggest power in Micro Inverter

Individual optimization, separate dedicated MPPT for each panel.
Max. efficiency up to 97.2%.

Flexibility

Plug & play installation, integrated WIFI.
Multi-channel MPPT for complex installation environments
with higher cost performance.

Safety

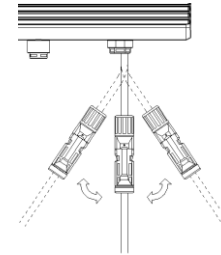
Max. DC voltage 60V.
No threat for high DC voltage on the roof.

Titan Features

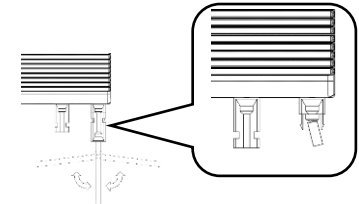
Maximum DC input current is 20A
Compatible with 182/210mm
PV modules



Extended DC cable design, decreasing
damage rate



TITAN
Intact



Others
Damage

Without additional data acquisition modules,
reducing the monitoring costs



Titan



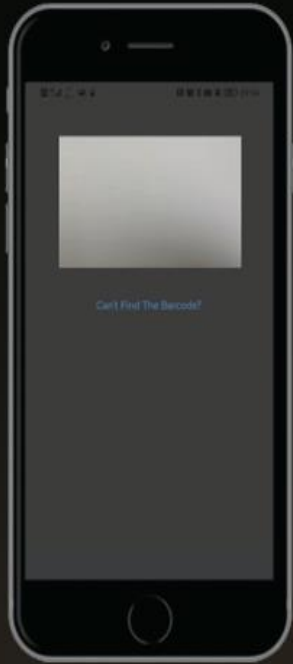
Home Router

Microinverter

TSOL-MP2250/MS3000/MP3000

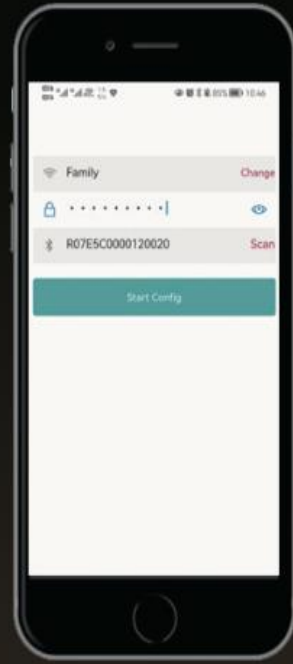
Simple WiFi configuration for Titan micro inverter

1



Scanning microinverter
monitoring SN code

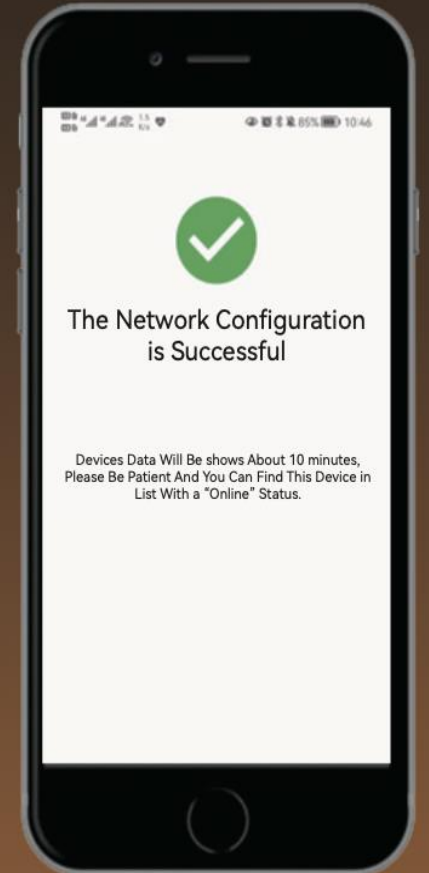
2



Select WiFi network and
enter the password

3

Wifi configuration will be done
AUTOMATICALLY



Products Portfolio

ESK POP-UP

TSOL-ESK400-PB/PS



Black



Silver

More Energy

Combine micro inverter and high quality panel, with adjustable opening angle to maximize the electrical generating capacity.

All-In-One

Integrated with micro inverter, solar panel and cables.

Portable and foldable for various applications.

Easier Installation

Plug & play connection, no requirement for professional installation.

Product Video

<https://www.youtube.com/watch?v=EWuGnR3d2wU>

Products Portfolio



ESK Transformer

TSOL-ESK400-TB/TS



Black



Microinverter

Sliver

Widely Applicable

Suitable for scenes such as flat ground, railings, walls, etc.

Highly Adaptable Fixture

The specifications of locally sourced PV modules are not restricted.

Adjustable Angle

According to different installation environments and requirements, the angle of the bracket can be adjusted to obtain the maximum power generation.

Products Portfolio

All-in-one AC Coupled Unit

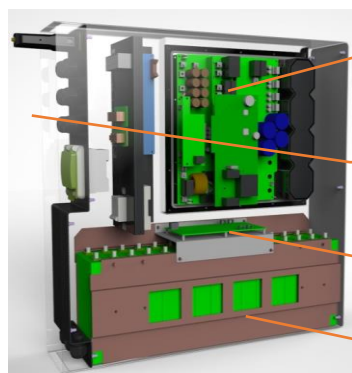
TSOL-ACU3.0K

TSOL-B100E-S

TSOL-ACU3.0K



TSOL-B100E-S



Inverter
&EMS

Connector

BMS

Battery

Flexibility

Compatible with on-grid PV systems, easy retrofits.
Intergrated design with battery, extendable batteries optional.

Reliability

IP65, suitable for indoor
& outdoor usage.
Natural convection, no
air fans.

Usability

Higher charge & discharge
efficiency.
Multi monitoring modes
optional.

Products Portfolio

Module-Level Rapid Shutdown

TSOL-RSDM-DS/DD/CQ



Module-Level Rapid Shutdown

When AC power is off, RSD would automatically shutdown or by manual emergency switch off

Rapid shutdown function, meets with NEC 2017-2020 requirements

High Current Input, suitable for all modules

No need to arrange cables on site, easy installation and cost saving

Plug & Play, easy to Install

Cloud Communication

The image displays a web-based monitoring system interface for power stations. The interface includes a navigation menu with options like 'Plant Center', 'Device Center', 'Alert Center', 'Report Center', and 'Work List Center'. A sidebar on the left shows 'Management', 'Overview', and 'Diagram'. The main content area shows 'Real-time' data for a power station, including 'Operating Status' (Offline: 3, Constructing: 1), 'Generation Overview' (Current Power: 109.04kW, Site Capacity: 3.06MWp), and 'Daily Generation' (8.92MWh, Annual Generation: 199.44GWh). A map shows the location of the power station in Europe. A smartphone is overlaid on the interface, displaying the mobile app version of the monitoring system, which shows a similar overview of power generation and consumption data.

Smart phone APP

Website

16:41:32
2018-11-22 Thursday
(UTC+08:00)
Version: V1.6.19

Online monitoring system provides real time power station management function for distributors and installers. Information of each power station is accessible with different levels of hierarchy.

Monitoring system provide a remote monitoring for each power station. End users can check the real-time data of the power station through website or mobile apps.

Monitoring System provide a comprehensive statistics of system electricity generation, consumption and battery storage capacity.

TSUNESS
Thanks for watching



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