

**SINEXCEL**  
isuna

# Sinexcel Isuna

COMPANY PROFILE

**SINEXCEL**

# Catalogue

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End User's Pain Points & Our Values

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Sinexcel & Sinexcel Isuna

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Honor & Certifications

Sites in the World

Key data & Key partners

Production Capability

Service System

# INDUSTRY TRENDS ANALYSIS

01





## > 1.1 Industry Trend Analysis

### Policy Driven

**Europe:** FIT in residential solar storage system

**America:** Tax deduction in installation of residential solar storage system

**Australia:** Subsidy to reduce the installation cost of residential solar storage system

**South Africa:** Tax rebate on purchase of solar panel

**Multiple Challenges  
Consistent Incentives  
Increasing Needs**

### 2021-2025 Residential Solar System Installation Rate

Europe: 8% → 56%

America: 8% → 36%

Australia: 2% → 15%

Japan: 20.7% → 38.5%

### Challenges

#### Rising Electricity prices

**Europe:** Shortage of energy, high electricity price.

**Australia:** High electricity price due to inflation, geopolitical conflicts, aging power plants.

**America:** Aging grid system, with more than 70% of the transmission system more than 25 years old, and power outages are common in severe weather.

**Southeast Asia:** Fragile power grid + extreme weather triggers electricity consumption conflicts.

**South Africa:** Frequent power outages and power shortages have had a serious impact on residents' lives.

#### Frequent Power Black-out



# INDUSTRY CHALLENGES & OUR VALUES

02



## > 2.1 End User's Pain Points & Our Values

01

### Poor user experience

- Large in size
- Heavy in weight
- Annoying operation noise
- Unfriendly to users



### Smart Experience

- SiC technology
- Smaller size, Lighter weight
- Better heat dissipation
- Smart fan starts running when load is above 60%

02

### High cost in expansion

- Inconvenient to expand power of inverter
- Need additional cost



### Smart Expansion

- 2 Independent battery ports, support mixture usage of new & old battery
- Make power expansion easier, no additional cost

03

### Long payback time cycle

- Low efficiency of inverter's power generation



### Smart Security

- SiC technology, higher efficiency 0.5-1% higher( hybrid inverter)  
3-5% higher( off-grid inverter)
- Payback time cycle shortened

Pain Point

Our Value



## > 2.2 Business Client's Pain Points & Our Values

01

### Difficult in Maintenance

- High malfunction rate of inverter's LCD/LED display



### Easier in Maintenance

- Design without LCD/LED display, without button, APP monitoring
- Lower malfunction rate, lower after-sale service cost

02

### Difficult in After-sale service

- Need on-site after-sale service, low efficiency and high service cost



### Easier in After-sale Service

- Remote OTA upgrade
- Monitoring via cloud platform
- Local after-sale service in Europe

03

### Difficult in Match

- Multiple market needs
- Need customized match



### Easier in OEM service

- 3-50kW inverter power range
- Open in communications protocols
- One-stop solution in OEM service

Pain Point

Our Value



# PRODUCT INTRODUCTION

03





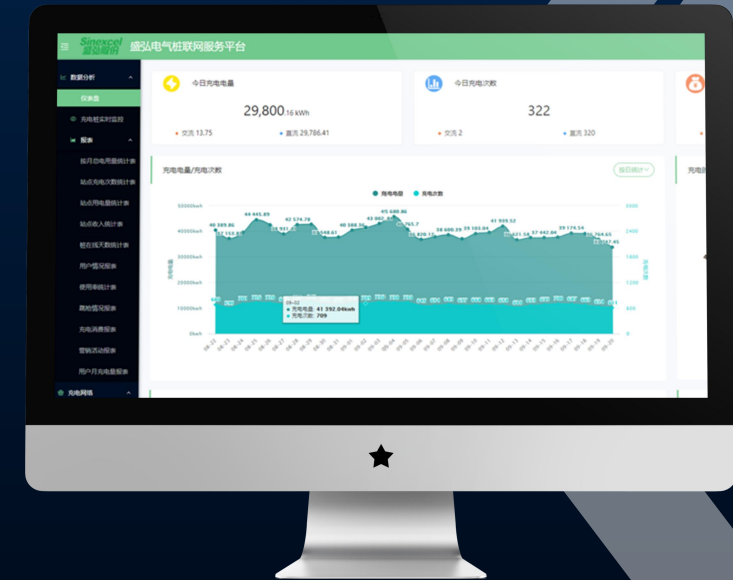
## 3.1.1 Product Advantages – Self-owned cloud platform & Self-developed APP

### Sinexcel Self-developed APP



- 3 types of account-- Different rights for end user & professional
- 7 languages, support language adding
- 6 different charging/discharging time period

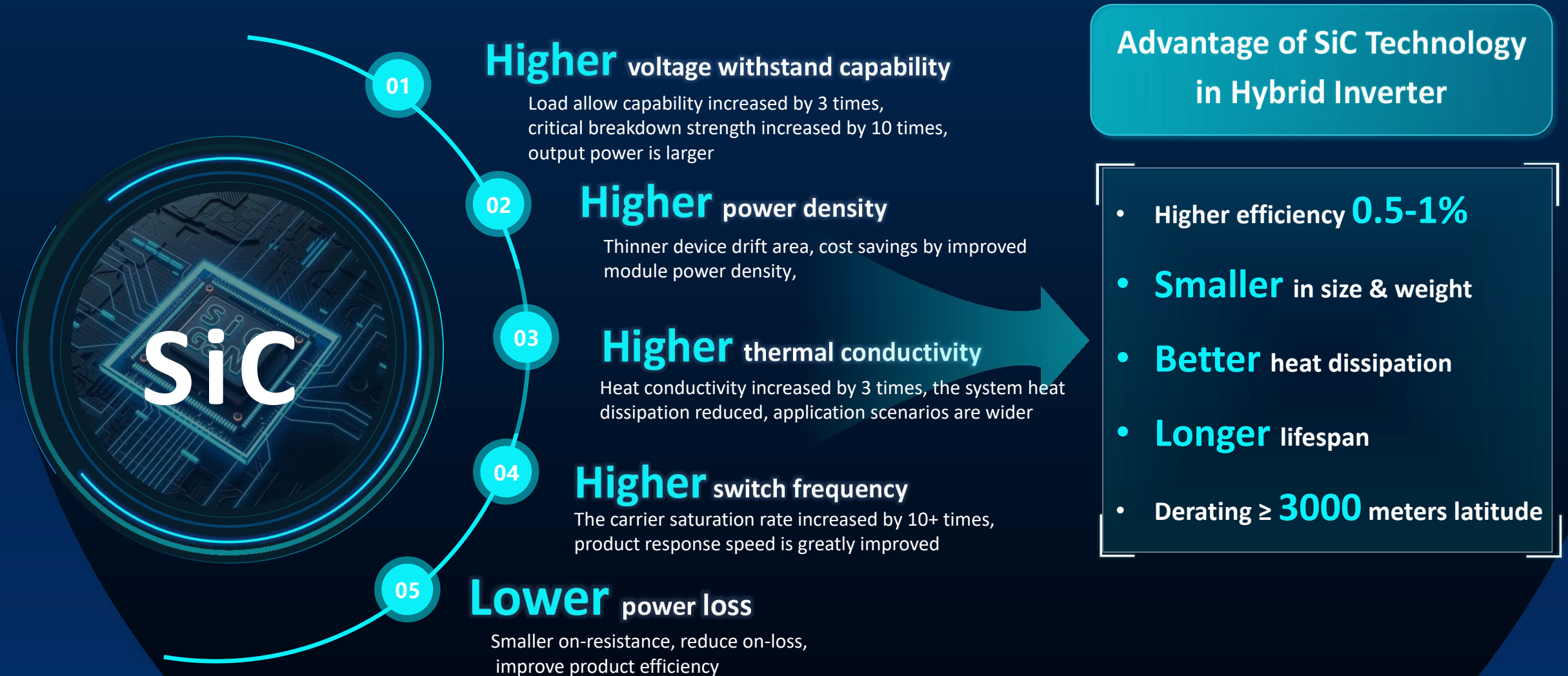
### Sinexcel Self-owned Cloud Platform



- High efficiency in after-sale service
- OTA upgrade and remote monitoring
- Support PC+ phone control

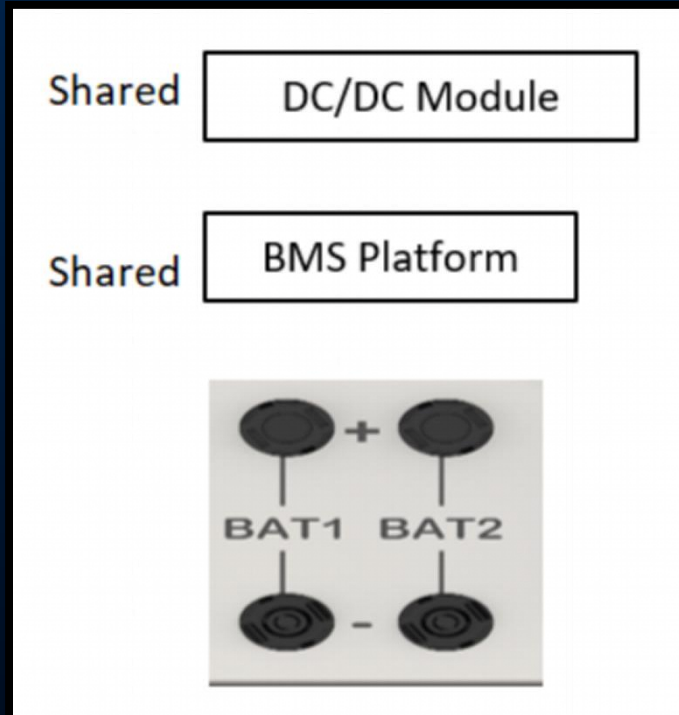


### > 3.1.2 Product Advantages – Silicon Carbide Technology

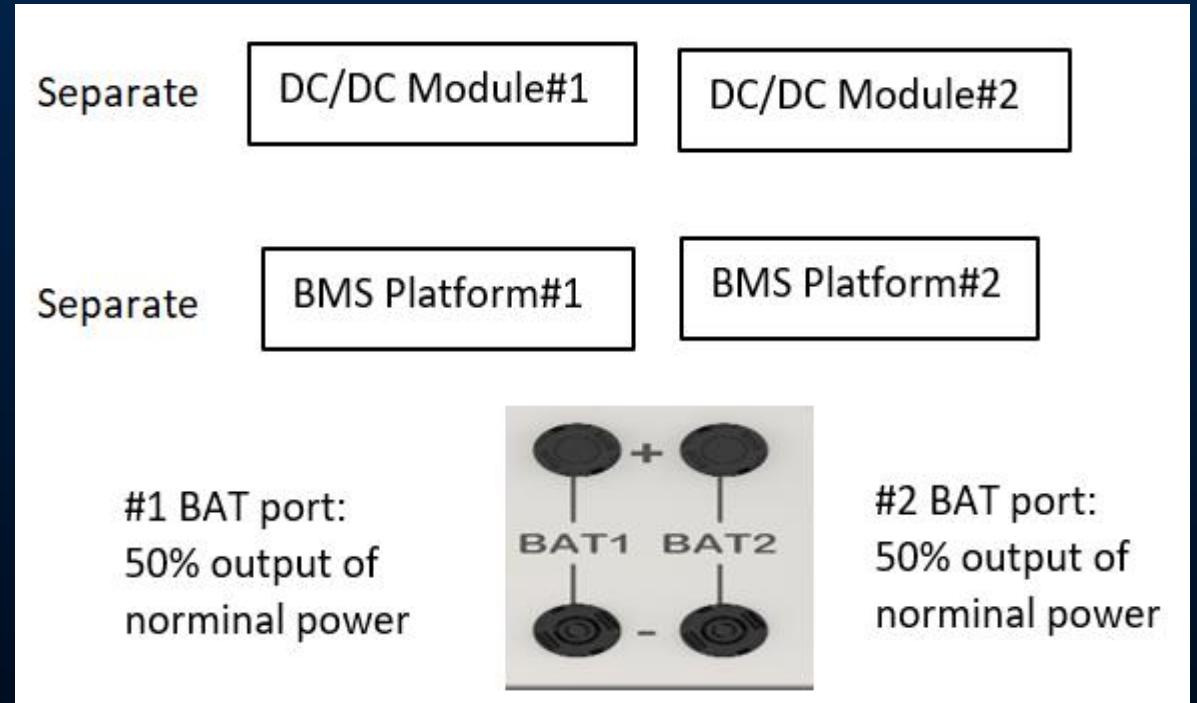


### > 3.1.3 Product Advantages – 2 independent battery ports

#### 2 battery ports design of other brand



#### 2 **independent** battery ports design of Sinexcel



**Easier** in battery capacity expansion

Support mixture usage of **new battery** and **old battery** of different **voltage/current/BMS protocols**

## Disadvantage of LCD/LED display

01

### High malfunction rate

Ultraviolet ray and 24 hours continuous operation cause high malfunction rate.

02

### Short lifespan

- Average lifespan of LCD display is around 2-3 years.
- Scenario in high latitude or seaside area with high humidity, reduce lifespan.

03

### High repair cost

Manpower cost in repair and replacing LCD/LED display is much higher than the LCD/LED display cost.

04

### Bad experience for end user

End user would judge inverter's quality based on what they see, based on the unworkable LCD/LED display.

**No LCD/LED display design  
for Longer inverter lifespan  
and lower after-sale cost**

## Our solution for visible display

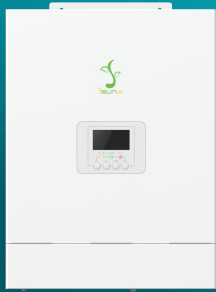
- Standard solution: APP monitoring
- Optional solution: Panel



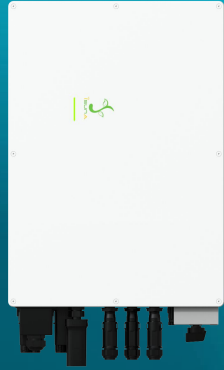
## > 3.2 Product Series



Single Phase LV  
hybrid inverter  
3-6kW



Single Phase LV  
Off-grid  
3-12kW



Single Phase LV  
hybrid inverter  
5-12kW



Three Phase LV  
hybrid inverter  
5-12kW



Three Phase HV  
hybrid inverter  
22-50kW

Launched

2024/Q4

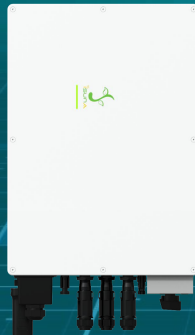
2025/Q1

Three Phase HV  
hybrid inverter  
10-20kW

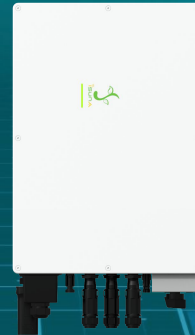


Series in Sale

Single Phase HV  
hybrid inverter  
5-12kW



Three Phase HV  
hybrid inverter  
5-12kW



Split-phase  
HV 5-20kW



## > 3.2 Product Series

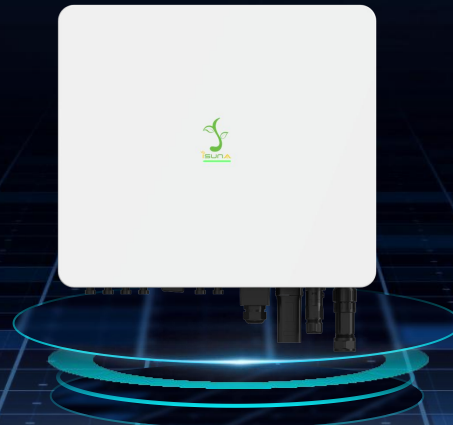
### Single Phase LV Hybrid Inverter 3-6kW

- Max. efficiency 98%
- 1.5 ~ 2 times PV power, 18A PV current
- 6 units in parallel ( off-grid mode)
- AC Coupled
- IP 65 (sands protection certificate)
- Natural heat dissipation (noise <25dB)



### Three Phase HV Hybrid Inverter 10-20kW

- Support 100% three-phase unbalance
- 2 independent battery ports, support mixture usage of new & old battery
- 1.5 ~ 2 times PV power
- 15 units in parallel (off-grid mode )
- Support 130-200% overload (60s)
- Maximum grid current ratio 1:1.8
- Support altitude 5000 meters (>3000 meters derating)



### Single Phase LV Off-grid Inverter 3-12kW

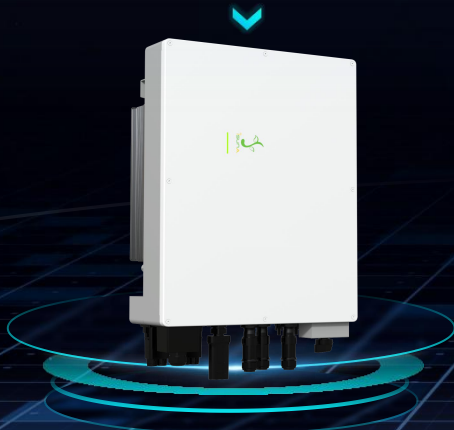
- Max. efficiency 97.5%, 3-5% higher
- Grid input up to 2 times of rated power
- 2-4 MPPT
- 1.5 ~ 2 times PV power, 18A PV current
- 50°C ambient temperature without derating
- Support OTA upgrade & APP monitoring
- 4 operation mode for multiple scenario
- 5-year standard warranty





### Single Phase HV / LV Hybrid Inverter 5-12kW

- Independent GEN port, smart monitoring
- 2 independent battery ports, support mixture use of new & old battery
- AFCI/PID function
- PV input current 20A, 3 MPPT
- 120% off-grid overload
- Grid input up to 1.5 times of rated power
- 165mm ultra-thin design



### Three Phase HV / LV Hybrid Inverter 5-12kW

- Independent GEN port, smart monitoring
- 2 independent battery ports, support mixture use of new & old battery
- AFCI/PID function
- PV input current 20A, 3 MPPT
- 200% off-grid overload
- Grid input up to 1.5 times of rated power
- 165mm ultra-thin design



### Split Phase LV 5-20kW

- 200% off-grid overload (100ms), 110%(60s)
- 200A grid input current
- 180mm Ultra-thin
- 2 independent battery ports, support mixture use of old & new battery
- Independent Generator Port, smart monitoring
- 4 MPPT, PV current 36A
- Support altitude 5000m(>3000m Derating)
- ATS built-in, integrated design





### CASE 1



#### China. Tibet

- Projects in latitude of 4700 meters
- Community scenario, supply power for 500+ users

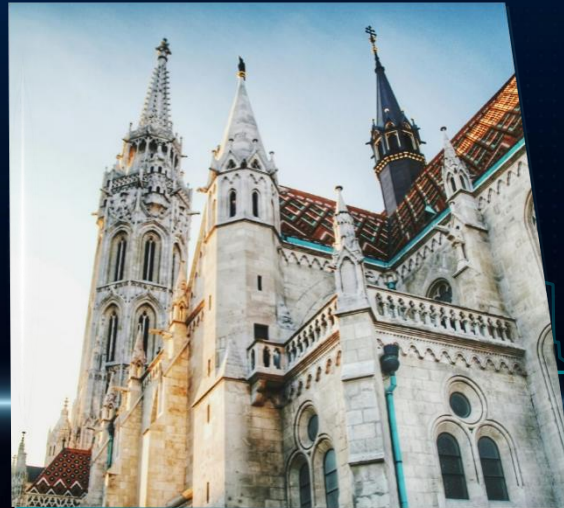
### CASE 2



#### Italy

- Single phase LV hybrid inverter series
- 4.16MW export and delivery

### CASE 3



#### Hungary

- Three phase HV hybrid inverter series
- 4.03 MW export and delivery

### CASE 4



#### Middle East & Africa

- Off-grid inverter series
- 5.58 MW export and delivery

# ABOUT SINEXCEL ISUNA

04





## Sinexcel Electric Group



```
graph TD; A[Sinexcel Electric Group] --- B[EV Charger]; A --- C[C&I Storage Inverter/PCS]; A --- D[Isuna Residential Storage Inverter]; A --- E[Power Quality Management Equipment]; A --- F[Battery Testing Equipment]; A --- G[UPS]
```

The diagram illustrates the product portfolio of Sinexcel Electric Group. At the top, a teal rounded rectangle contains the group name. A horizontal line below it branches into six vertical lines, each leading to a product category box. The boxes are arranged in a row on a perspective grid. The 'Isuna Residential Storage Inverter' box is highlighted with a teal gradient, while the others are dark blue.

EV  
Charger

C&I  
Storage  
Inverter/  
PCS

**Isuna**  
Residential  
Storage  
Inverter

Power  
Quality  
Management  
Equipment

Battery  
Testing  
Equipment

UPS



## > 4.2 Milestones of Sinexcel

**2007**

SINEXCEL  
established in  
Shenzhen

**2008**

Launched the  
first modular  
active power  
filter (APF) in  
China

**2011**

Established the  
electric vehicle  
charging  
business line

**2012**

Established the  
energy storage  
microgrid BU &  
battery testing BU

**2017**

Listed in the  
ChiNext with  
stock code of  
300693 after 10  
years of progress

**2020**

Annual revenue  
exceeded RMB  
1 billion ( USD  
145 million )

**2023**

Annual revenue  
exceeded USD  
380 million.  
Sinexcel Isuna  
established for  
residential  
storage inverter



Top 4 Chinese manufacturer  
in global shipment of C&I Solar storage inverter

Data source: Energy Storage Leaders Alliance (EESA)



No.1 market share in APF in the world

Data source: Asian Power Quality Alliance  
Enterprise Survey Statistics



Top 5 market share  
of charging equipment in China

Data source: Inengyuan statistics

**Power  
Electronics  
Product**



### Honors



National technologically advanced small and medium-sized enterprise, Guangdong Provincial Specialized, Refined, Characteristic and Innovative Enterprise, Guangdong Provincial Contract-abiding and Trustworthy Enterprise, and Guangdong Provincial Science and Technology Progress Award

### Qualifications



ISO three-system/high-tech enterprise/AAA-level enterprise credit/after-sales service certification, Guangdong Provincial Industrial Design Center, SGS recognized cooperative supplier, and certification by authoritative institutions such as China Electric Power Research Institute, Ministry of Industry and Information Technology, China Quality Certification Center, China General Certification Center, IEEE, ETL, TUV, CE, SAA, and UL

### Patents



**210+** patented technologies  
Including 40+ patents for invention and 70+ utility models

### Standards



Participated in the development of multiple national/industry technical standards GB/T 37293-2019, GB/T 37295-2019, JG/T 417-2013, T/CPSS 1003—2018, and T/CPSS 1002—2018

### Awards



- EV Charger: Top 10 core module brands; Top 10 influential brands in China's charging and swapping industry; Top 10 charging equipment brand enterprises in China; Top 50 enterprises in China's charging and swapping industry; Annual Swapping Technology Award, etc.
- C&I solar storage inverter: Annual Excellent Energy Storage Converter Brand; Top 30 in the energy storage industry chain; Most Influential Enterprise Award in China's energy storage industry; Top 10 energy storage PCS enterprises in China; Best Energy Storage PCS Supplier Award, etc.

Y2024 Budget  
in certification



USD 8 Million



## > 4.5 Sites in the World



### > Headquarter

Shenzhen, China



### > R&D Centers

Shenzhen, China

Xi'an, China



### > East China Operation Center

Suzhou, China



### > Manufacturing Base

Huizhou, China

Suzhou, China



### > Manufacturing Base

Los Angeles, USA

Dusseldorf, Germany

Brisbane, Australia

Singapore city, Singapore

India



### > After-sales service

Poland

Turkey



## > 4.6 Our Partners





Integrated R&D organization for rapid resources allocation  
Quick to respond to customer needs

Total Staff  
3000+

RD Engineers  
500+

Collaboration among R&D centers  
in Shenzhen, Xi'an and Suzhou

21%

Proportion of  
R&D engineers

20%

Proportion of R&D  
engineers with more than  
10 years of experience

6.5 years

Average serving age of  
R&D engineers in Sinexcel

11%

Proportion of R&D  
expenses budget in new  
technology & products



### Huizhou Sinexcel Electric Co., Ltd.



**61358m<sup>2</sup>**

Building area



**3.5 billion/year  
200MW/month**

Capacity



**July of 2021**

Launch for production

#### Sinexcel factory in Huizhou (in Pearl River Delta)

Huizhou Sinexcel is equipped with an smart production management system, with standardized, refined and transparent warehouse management system to improve the production capability.



HUI  
ZHOU



### Suzhou Sinexcel Technology Co., Ltd.



**82,619m<sup>2</sup>**

Building area



**USD 5 billion/year**  
**400MW/month**

Capacity



**July of 2023**

Launch for production

### Operation Center in Suzhou (Yangtze River Delta)

Suzhou Sinexcel's specialized in development, design, production and sales of commercial & industrial storage inverter, PCS. Smart factory of production lines with integrating information technology, digitalization and automation, with R&D base.

SUZHOU





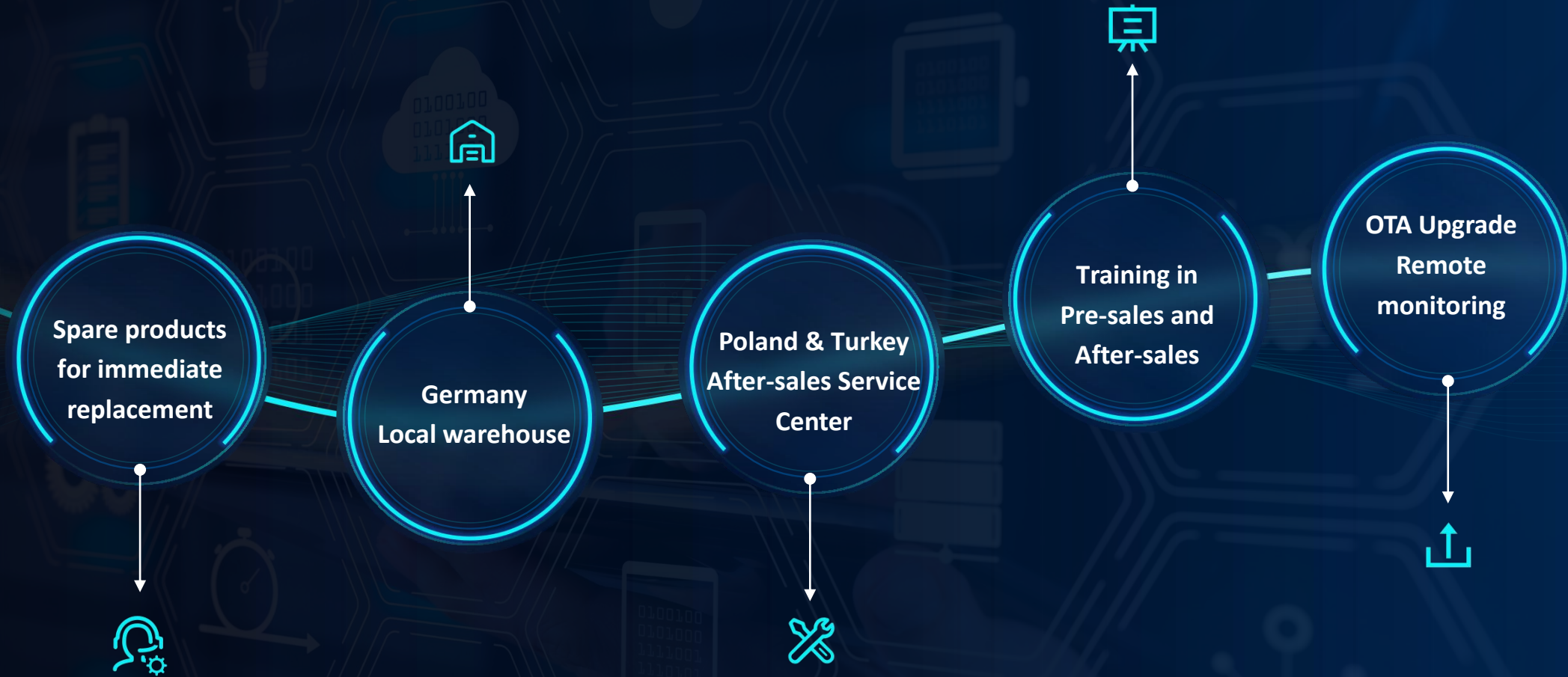
## > 4.7 Production Capability

### Production Line Overview





## > 4.9 Service System



# Shenzhen Sinexcel Isuna Energy Technology Co.,Ltd

Become a world-class leader in power electronics products

# THANKS

- Headquarters: 1002 Songbai Rd,Nanshan Shenzhen China 518000
- Huizhou factory: No. 31, Huifeng West 2nd Road, Zhongkai High-tech Zone, Huizhou City, Guangdong Province
- Suzhou factory: No.1818, Songlu Road, Wuzhong District, Suzhou City, Jiangsu Province
- Xi'an RD center: 1st-2nd floor, North Building, Fenghuo Science and Technology Park, No. 28 Gaoxin 6 Road, High-tech Zone, Xi 'an city, Shanxi province



Wechat public  
account



Company  
website

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