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# WHY CHOOSE AFORE?

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12 Years Dedicated  
Inverter Manufacturing



**Afore**

Afore New Energy Technology (Shanghai) Co., Ltd.



# About Afore



- **13+** years PV Inverter Manufacturing Experiences;

- Top **10** String inverter factory in China;

- **8GW+** Shipped Globally;

- Flexible cooperation modes;

- **230+** Solar Inverter Patents;

- Stocks in China, Poland, Netherlands, Japan, Mexico etc.

Afore New Energy Technology  
(Shanghai) Co., Ltd.

Afore is the world's leading manufacturer of PV string inverter and energy storage inverter, with a history of 12 years.

A Future Of Renewable Energy



**Production Area: 20000m<sup>2</sup>**

**360000** sets of annual production capacity.



**R&D: 60**

Over **60** professional engineers and one independent R&D lab.



**Employee: 300**

Highly efficient and complete departments including R&D, Production, QC, warehouse, marketing and sales etc.





**600** thousand of sold inverters around the world.



**40** million USD of annual sales in 2022.



Top **10** String inverter brand in China.

We offer not just good products, but also high-efficient local support to our partners and users throughout the inverter life span. Make sure the customers receive reliable returns by choosing Afore!

# What We Have Achieved?



# Global Market



- Headquarter
- Sales Office
- Local Partner

(Only the main ones are marked)

Over **80** countries and areas installed Afore inverters, total installation capacity is **8GW**. Among them, Afore inverters have a market share of about **10-15%** in some markets.

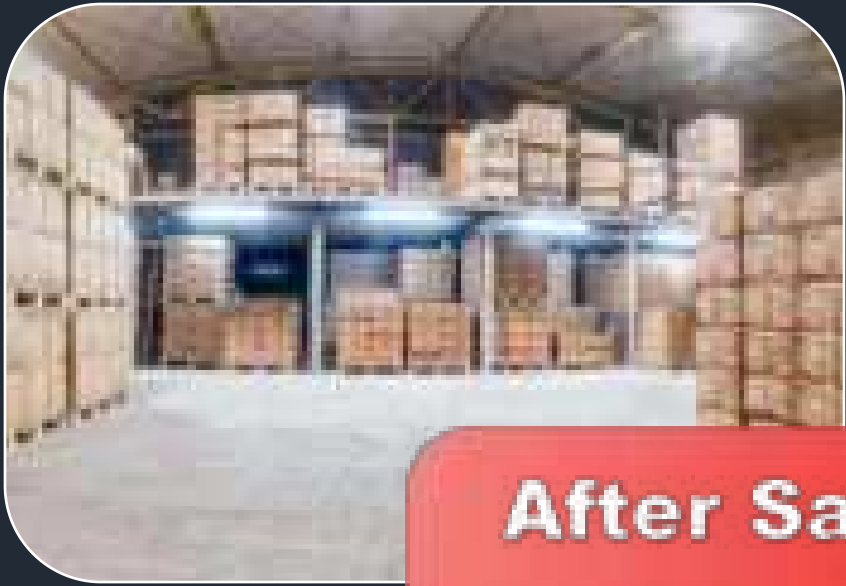
## After Sales

Over **15** local Professional After-sales Service Teams in different countries.

**20+** overseas branch offices.







## After Sales

Afore has set up local warehouses and distribution services in many countries and regions. That ensures quicker responses to customer demand and commitment to three working days delivery.





## **Product Series**

# PV String Inverter & PV Storage Inverter



# Residential HNS Solar Inverters

The Afore HNS Series Single-phase inverters are designed for residential PV system applications, rating from 1kW to 10kW.



Single phase (1-3kW)



Single phase (3-6kW)



Single phase (7-10kW)

# Commercial & Power Plants BNT Solar Inverters

The Afore BNT Series Three-phase string inverters are designed for commercial and power plant PV system applications, rating from 3kW to 60kW.



Three phase (3-25kW)



Three phase (30-60kW)

# Energy Storage Hybrid Inverter

The Afore energy storage hybrid inverters are designed to increase energy independence for homeowners and commercial users. The power range is from 1.0kW to 30kW.



Single Phase (1-6kW)



Three phase (3-30kW)



48V AC Coupled (1-4.6kW)



Split Phase (3-9.6kW)



**3**

**ATON Series 3-25kW**



# ATON Series PV String Inverter 3-25kW



## MPPT RANGE

Wide MPPT Range



## PV OVERSIZE

1.5 Times PV Oversize



## DC 1100V

Max. DC 1100V



## UNIBODY

One-piece Aluminum Housing



## PROTECTION

Build-in SPD Type II



## SMART

Smart IV Curve Scanning



## UPDATE

Remote Firmware Update







## ATON Series PV String Inverter 3-25kW



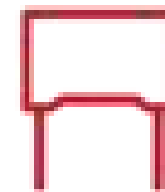
### Compatible with bifacial modules

High DC input current & strong overload ability.



### Quick Arc Fault circuit interruption (Optional)

Equipped with mature series arc detection and can shut down the inverter rapidly, which can prevent arc hazards in rooftop PV systems in complex environments.

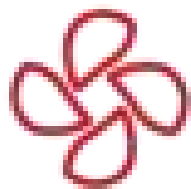


### Thin film capacitor design, higher reliability

Thin film capacitor has 5 times of longer life than the electrolytic capacitor ((under the same conditions of use, and the temperature is less than 70 degrees).



## ATON Series PV String Inverter 3-25kW



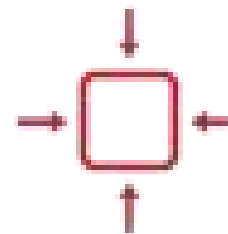
### IP68 fan design

Control the fan according to the ambient temperature, good heat dissipation makes the inverter life longer.



### String level monitoring

Find the early issues of the PV panels timely and analyze whether there is a fault. Quickly determine its type when fault happens and precisely locate the failed PV string.



### Smaller & lighter

Transportation cost down, and easy to install.



# Hybrid Inverter



## Single Phase Hybrid Inverter (1-6kW)

Max.  
1.5

**PV OVERSIZE**  
1.5 Times PV Oversize

2  
MPPT

**MPPT CHANNELS**  
Up to 2 MPPT Channels

<10  
ms

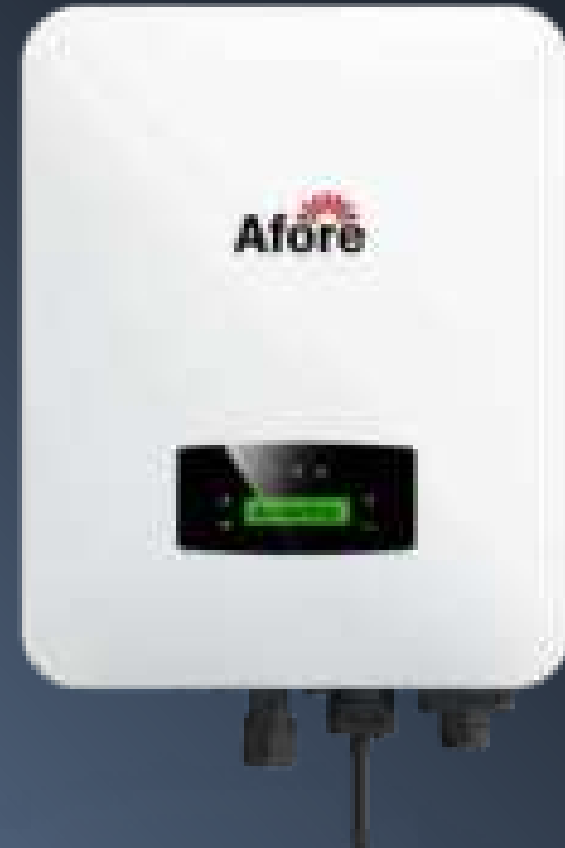
**UPS FUNCTION**  
Switch Time < 10ms



**PARALLEL**  
Max.6 Parallel Stacking



**INPUT**  
Support Generator





## Three phase Hybrid Inverter (3-30kW)



### WIDE RANGE

Voltage Range (150-800V)



### UNBALANCE

Support Unbalance Load



### PV OVERSIZE

1.5 Times PV Oversize



### MAX. 40A<sub>dc</sub>

String Current Up To 40A



### UPS FUNCTION

Switch Time < 10ms



### INPUT

Support Generator



## AC Coupled Inverter (1-4.6kW)



### SEAMLESSLY SWITCH

Seamlessly Switch Time  
between EPS with Grid



### SMART

Smart EMS/BMS



### UNIBODY

One-piece Aluminum Housing



### SAFETY

Proven Safety



### MAX. 80A

Max. 80A Battery Charge  
and Discharge Current



### SUPPORT

Island support





## Split Phase Hybrid Inverter 3-9.6kW



- The Afore AF Series storage Inverters are designed to increase energy independence for homeowners. The power range is from 3.0kW to 9.6kW, compatible with high voltage (80-495V) batteries.
- Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from public grid.
- Thanks for the UPS function (switch time < 10ms), enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.
- The AF Series storage inverters meet the US safety regulations, integrated with Arc Fault Circuit Interrupter (AFCI) and Rapid Shutdown.



# Split Phase Hybrid Inverter 3-9.6kW

Max.  
**1.5**

## PV OVERSIZE

1.5 Times PV Oversize



Maximum output 1.5 times



## PARALLEL

Max.6 Parallel Stacking

**3**  
MPPT

## MPPT CHANNELS

Up to 3 MPPT Channels

**<10**  
ms

## UPS FUNCTION

Switch Time < 10ms

Max.  
**EPS**  
9.6kW

EPS mode, the maximum output is 9.6kW



## SPLIT-PHASE

Support Split-phase  
(120/240Vac) Grid

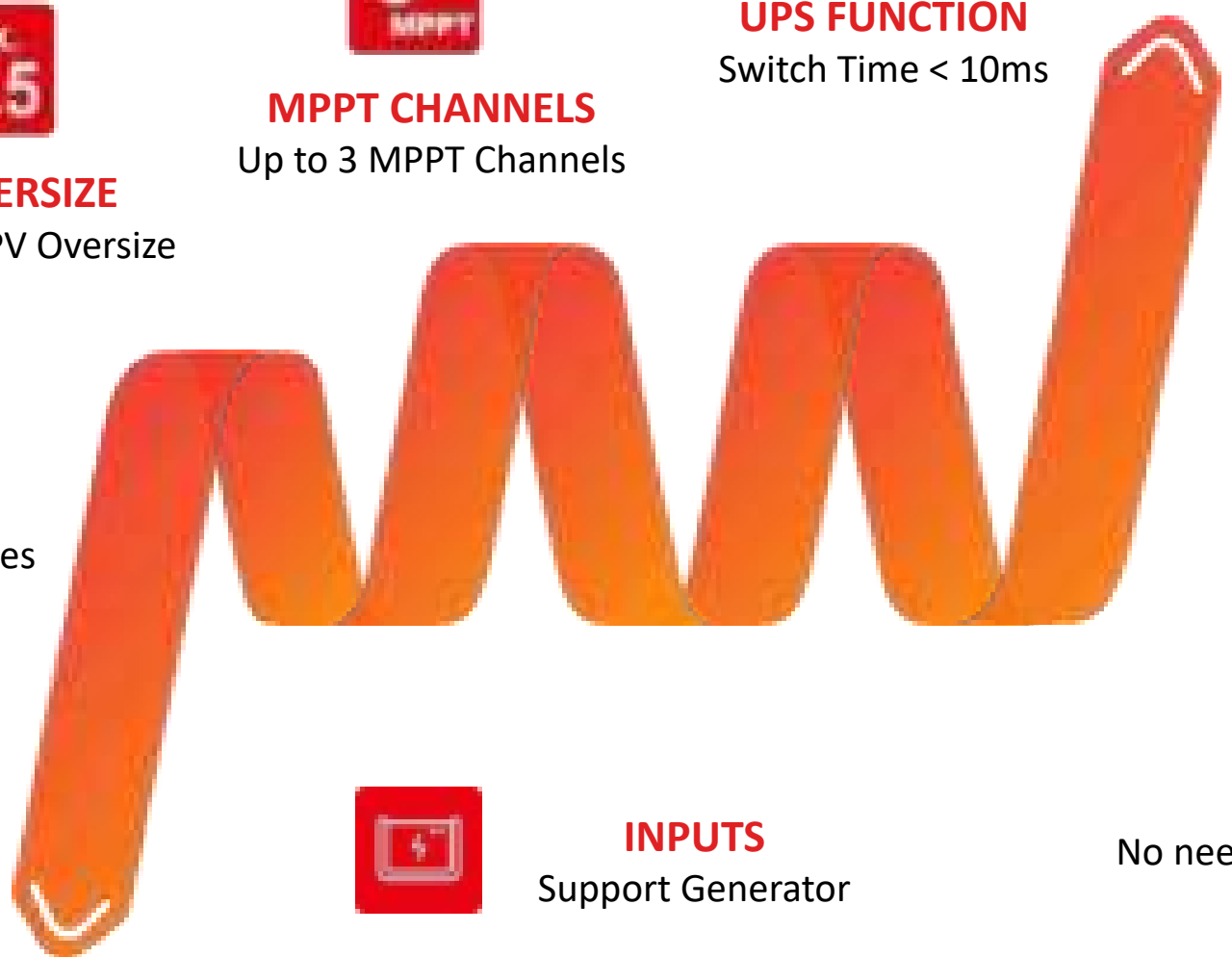


## INPUTS

Support Generator



No need Auto-transformer







# **Certification**

# Certifications And Standards

## EMC Standard

EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12etc.

## Safety Standard

IEC/EN62109-1, EN62109-2, UL1741, IEC 60068-2etc.

## Grid-Connection

EN50549-1, EN50438, RD 1699, UNE 217001, RD 413, IEC61727, IEC62116, IEC61683, VDE4105, C10/11, IEEE1547, VDE0126, AS4777.2, NB/T 32004-2013, UNT C 15-712-1, ABNT NBR 16149, ABNT NBR 16150etc.

A red circular button with a white number '6' in the center, set against a dark blue background with a white horizontal band.

6

# **Production Line And QC**



Strict Quality Control and Quality Assurance System



Inside the high temperature chamber, every inverter goes through up to 8Hrs Aging Test without power degrade.



Over 70 Performance and Functional Tests Before Packing



20+ QC Points During Whole Process of Production



Production capacity extended by 4 times after upgrading



8GW + Shipped Globally



# **Global Marketing**



## Technical Training



## Product & installation training

Every two months a large number of clients join the regular technical training held around many countries.

## Technical Training





**Boxing Match**



# Racing Rally





Intersolar Europe 2022





SNEC 2021





CISOLAR 2021





## Global Media Coverage







## **Global Installation Case**



Country: China  
Product: Three-phase 60kW  
Project Size: 0.5MW



Country: Ukraine  
Product: Three-phase 30kW  
Project Size: 30 kW



Country : Norway  
Product : Three-phase 15kW  
Project Size : 15kW

## Applications



Afore inverters have been installed in Europe, Australia, China, Indian, Japan, North America and South America, satisfying hundreds of thousand users globally.

Country: Japan  
Product: Single-phase 5.5kW  
Project Size: 49.5kW



Afore Inverter Power

# BAHRAIN F1

Grand Prix To Go Green!

Country: Bahrain  
Project Size: 3883kW



  
Afore



Product: Three-phase 30kW  
Project Size: 2.0MW



Product: Three-phase 20kW  
Project Size: 200kW



Product: Three-phase 60kW  
Project Size: 500kW



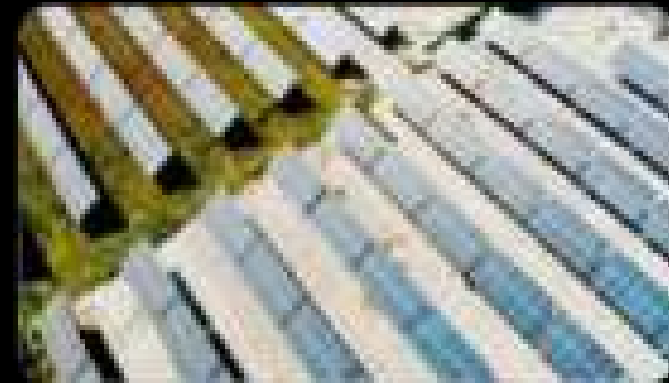
Product: Three-phase 20kW  
Project Size: 0.6MW



Product: Three-phase 30kW  
Project Size: 1.2MW



Product: Three-phase 30kW  
Project Size: 1.5MW



Product: Three-phase 30kW  
Project Size: 0.8MW



Product: Three-phase 30kW  
Project Size: 1MW



**China Series**



Country: Poland  
Product: Single-phase 5kW  
Project Size: 5kW



Country: Japan  
Product: Hybrid Inverter 6kW  
Project Size: 6kW



Country: Pakistan  
Product: Three-phase 6kW  
Project Size: 6kW



Country : Iran  
Product : Single-phase 5kW  
Project Size : 200kW residential  
community project



Country: Vietnam  
Product: Three-phase 60kW  
Project Size: 266kW

» Applications



Country: Malaysia  
Product: Three-phase 60kW  
Project Size: 85kW



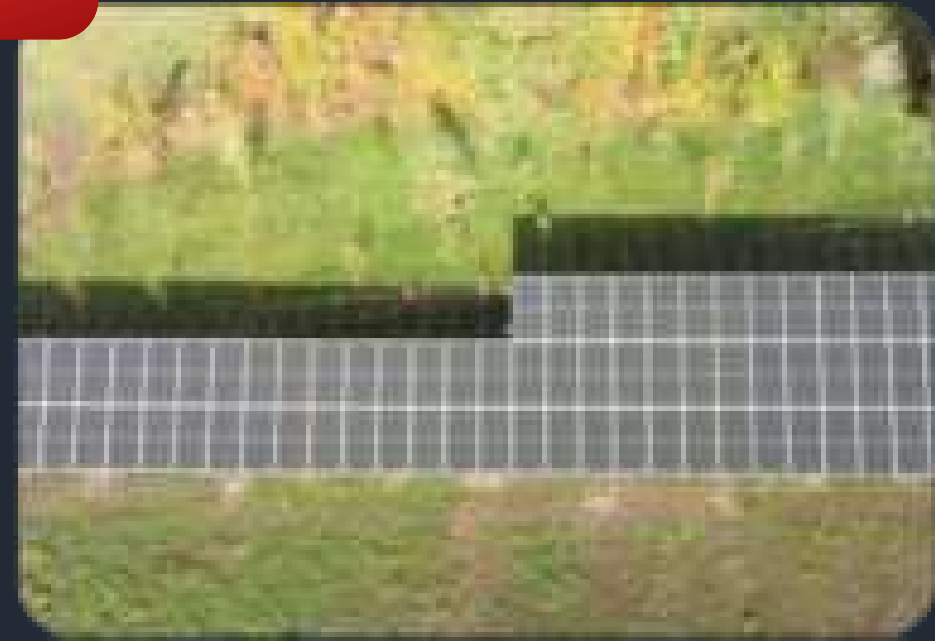
Country: Japan  
Product: Single-phase 5.5kW  
Project Size: 49.5kW



## Applications



Country: Brazil  
Product: Three-phase 60kW  
Project Size: 5MW



Country: Ukraine  
Product: Three-phase 30kW  
Project Size: 30kW



## **Company Honors**



AC Coupled 4.8kW

Single Phase Hybrid Inverter 3.6kW

Three Phase Hybrid Inverter 10.5kW





# Company Honors



Afore Keeps Moving Forwards



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THANK YOU !

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