

FusionSolar Residential & Small Commercial Smart PV Solution



Digital PV Solution for Upgraded Safety & Better Experience



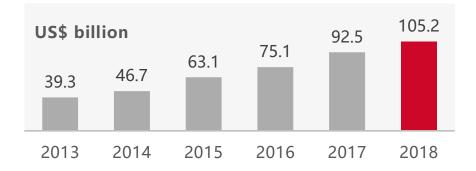
Corporate Introduction & Smart PV Success Story So Far...



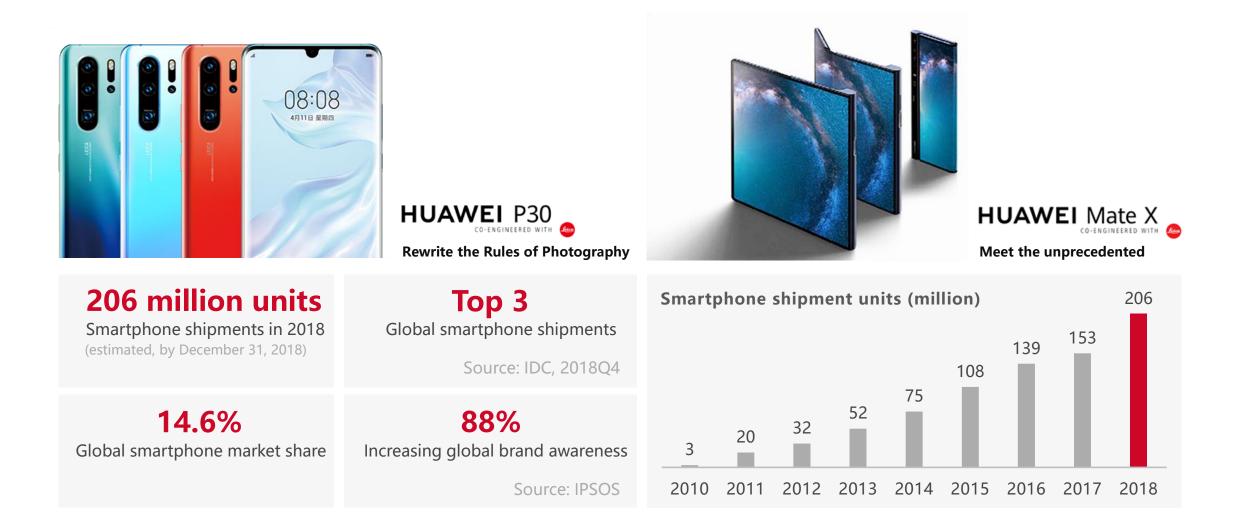
Sustainable business growth with large operation scale & diversed business groups



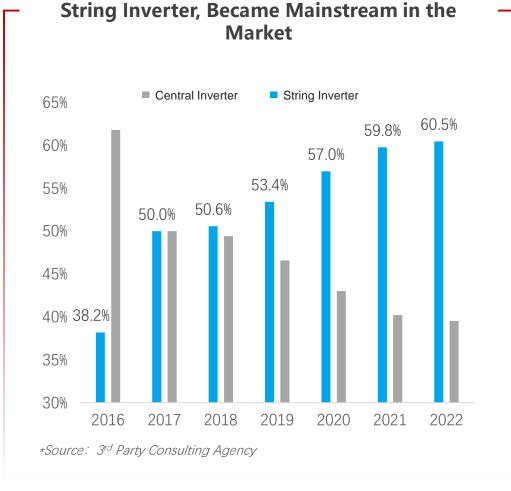
2018 Sales Revenue US\$105.2 Billion YoY increased by 19.5%



A Brand Admired and Trusted by Consumers with Global Brand Awareness Now 88%



Enlarging the Lead – with 100GW+ Global Shipments



No. 1 Global Inverter Market Share in Four Years Since 2015 with accumulated 90GW+ shipments



INTERSOLAR AWARD Winner of 2019

INTERSOLAR AWARD Winner of 2019





INTERSOLAR AWARD

Each year, the solar award honors technological innovations and groundbreaking solutions around the topic of the AWARD category Photovoltaics.

The most significant developments and pioneering solutions in the solar industry will be awarded every year.

HUAWEI - The most innovative PV inverter of 2019

INTERSOLAR AWARD judges were impressed by the combination of so many useful high-end features integrated into one system:

- ✓ Compact design and low weight (17kg for 3-10KTL, 25kg for 12-20KTL)
- ✓ Industry-leading Efficiency (98.6% for 3-10KTL, 98.65% for 12-20KTL)
- ✓ AI Powered Feature:

1) AFCI to secure solar investment

2) Smart module performance health check for trouble-free operation

https://www.thesmartere-award.com/en/hall-of-fame/hall-of-fame#c172622

Huawei Residential & Commercial Smart PV Solution







Easier Design with Optimizer

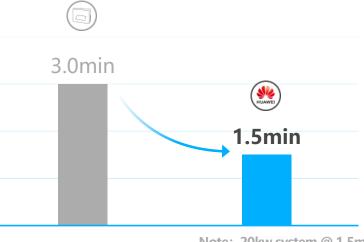
Modules affected by shading, multiple orientations can be connected in one string





<1.5min

Optimizer Pairing through Cutting Edge Chipset Performance



Note: 20kw system @ 1.5m 5kw system @ 30s



<25kg Extreme low Weight for One Person Easy Installation

Thanks to Advanced Digital Control Algorithm that Contributes to Smaller Size of Magnetics and Cooling Components





Screw-less

Innovative AC and Comm. Port for Easier Connection



Free of uncovering for better protection and higher reliability

(10°)	Screw-less wiring and directly bolt-in in only 10s
Clus	and directly bolt-in in only 10s



Standardized wiring to eliminate mis-operation, safe & reliable

10 Inverters

Can be Connected by 1 Smart Dongle

(10)

1 smart dongle connects up to 10 inverters, fits all scenarios

 Simple USB interface for directly plug in, fits outdoor application



4G/WLAN



Easier O&M through Periodical PV Module Health Check

*Applicable for inverter only (without optimizers)

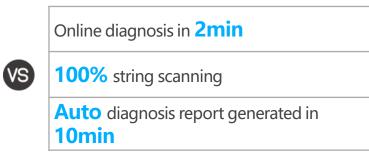
Conventional offline diagnosis

Onsite diagnosis by experts in **1day**

10% sample scanning

Manual data analysis & Report Writing

Huawei online diagnosis



Module-level Voltage Shutdown, Touch Safe

*Full optimizer required



Optimizer is off during installation and maintenance with 0v output



Max 80v within solar array boundary when turning off inverter, meeting US NEC 2017 standard





Electric Arcing Is Threatening the Safety of PV System & Underlying Buildings

What is it?

- electrical breakdown of air that produces an prolonged electrical discharge

What is the harm?

Can reach temperature of over 3000°C & easily start a fire



Pose significant risk to firefighters under high DC voltage & current Unreliable Soldered joints within modules

Broken PV cables

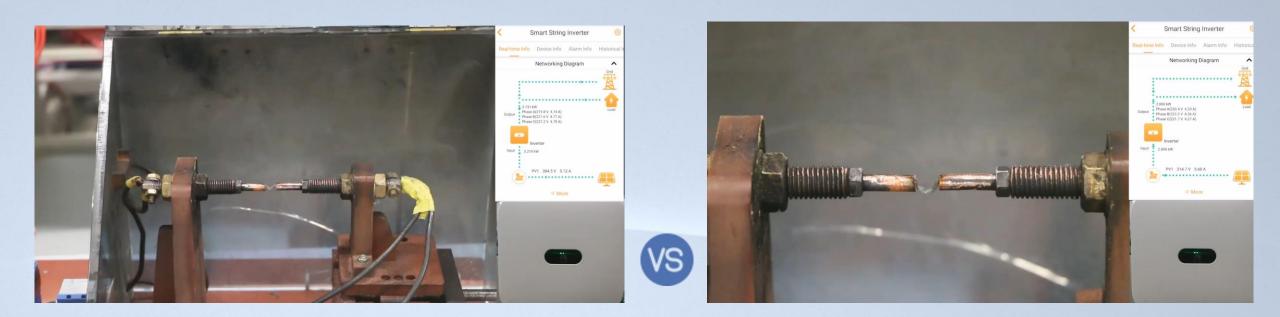
Loosen PV connectors



AFCI disabled, arcing continuously posing fire risks



AFCI function enabled, arcing extinguished in < 2sec



PV Arcing with/without AFCI Comparison

Built-in PID Recovery for Better Module Performance

Modules will occur PID effects under hot & humid environment, which will greatly reduce module output performance. (Singapore case: 25% power loss in 18 months)

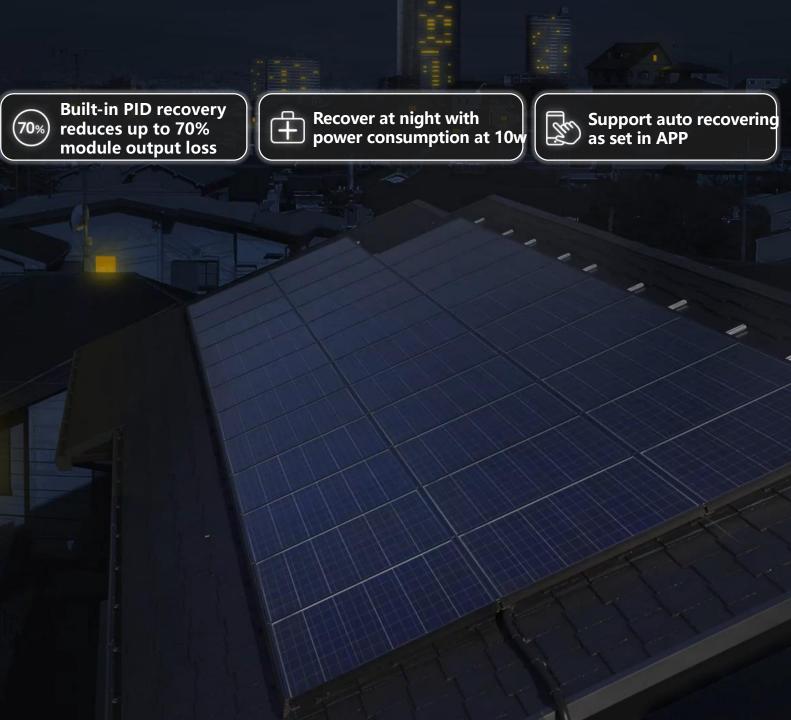
Case Study: Huawei PID recovery inverter increases power yield by max. 1.59% in 6 months



Without PID Recovery With PID Recovery

China Carport Roof Comparison Project, J Brand 265W module

Month	Without PID Recovery (kWh)	With PID Recovery (kWh)	Energy Yield Difference
201706	3595	3600	0.12%
201707	3677	3688	0.31%
201708	3893	3929	0.93%
201709	3765	3802	0.98%
201710	4120	4183	1.54%
201711	1398	1420	1.59%

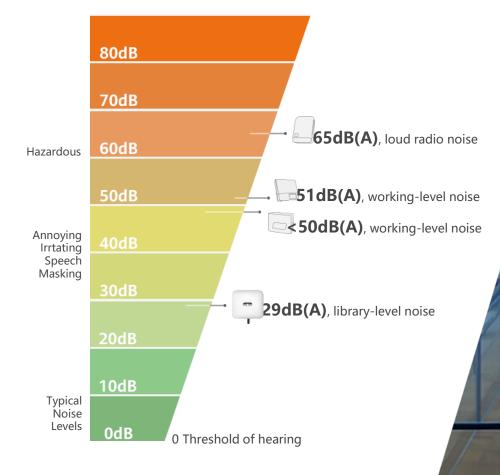


Battery Ready, Future Proof



29dB

Library-level Noise for a Peaceful Environment





Thank you.

把数字世界带入每个人、每个家庭、 每个组织,构建万物互联的智能世界。

Bring digital to every person, home, and organization for a fully connected, intelligent world.

Copyright©2018 Huawei Technologies Co., Ltd. All Rights Reserved.

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

