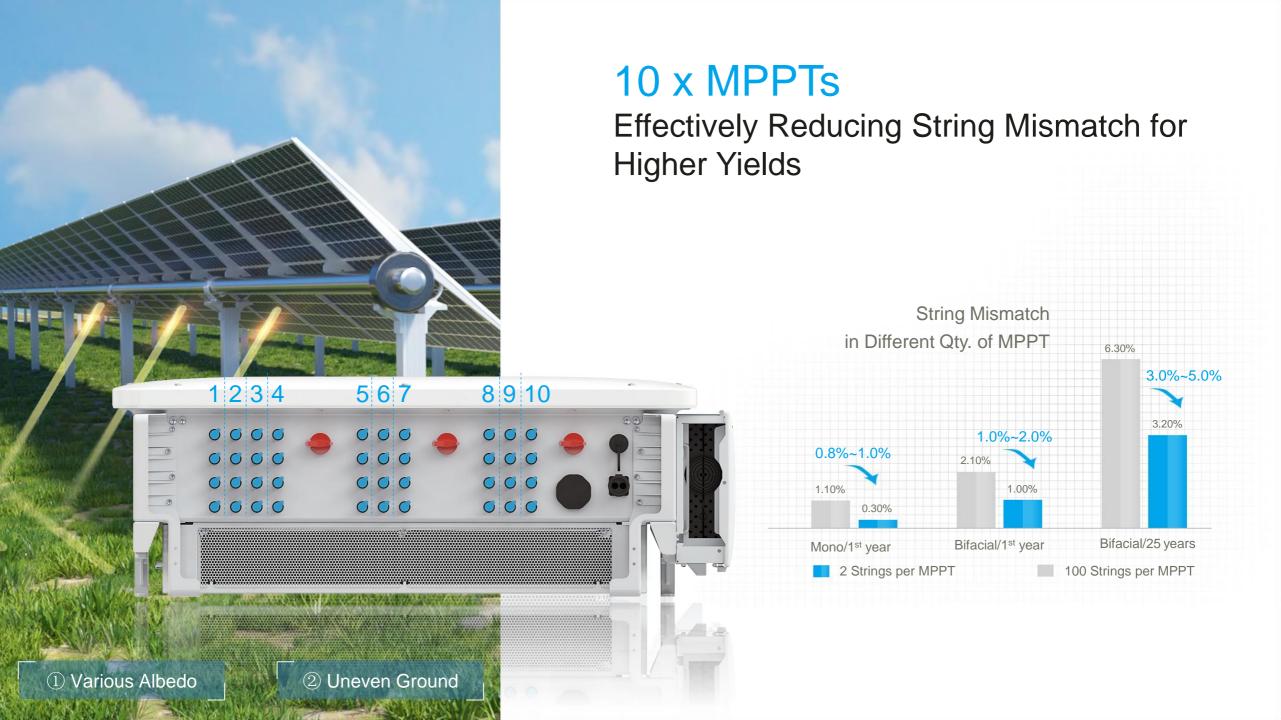


SUN2000-100KTL-M1

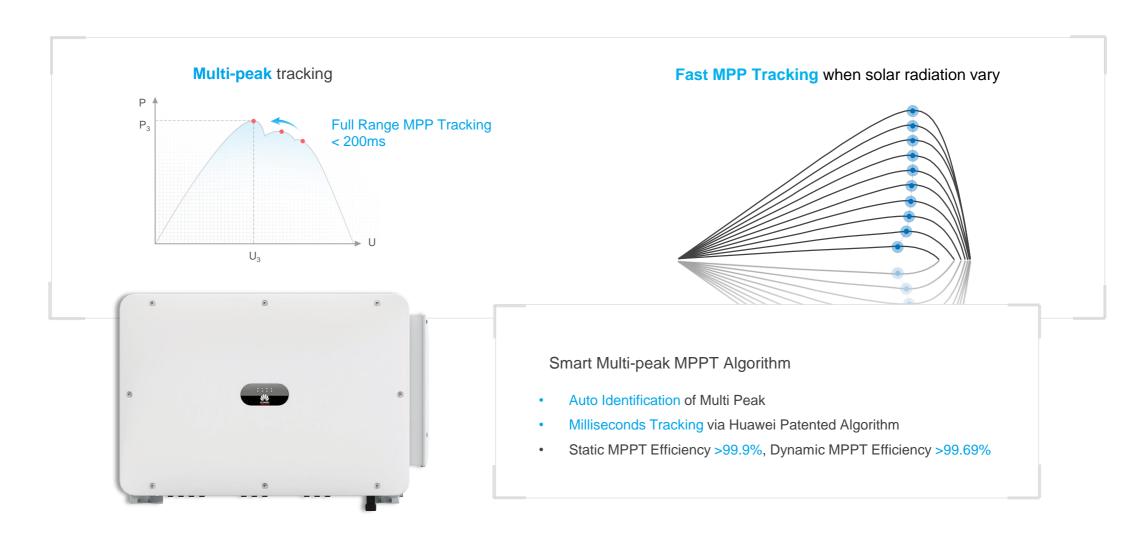
Nominal Output Power Max. Apparent Power 100,000 W 110,000 VA Max. Input Voltage Max. Input Current 1,100 V **26 A** / MPPT **MPPT** MPPT Voltage Range 200 ~ 1,000 V 10 Communication **Protection Degree IP66 MBUS**





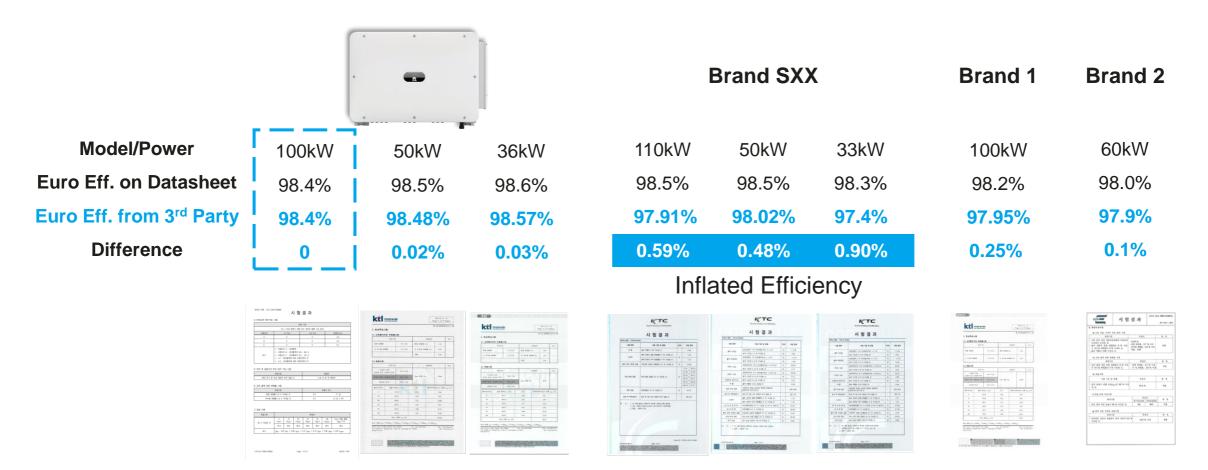
Smart MPP Tracking Algorithm

Smarter & Faster Multi-peak Tracking for Higher Yields



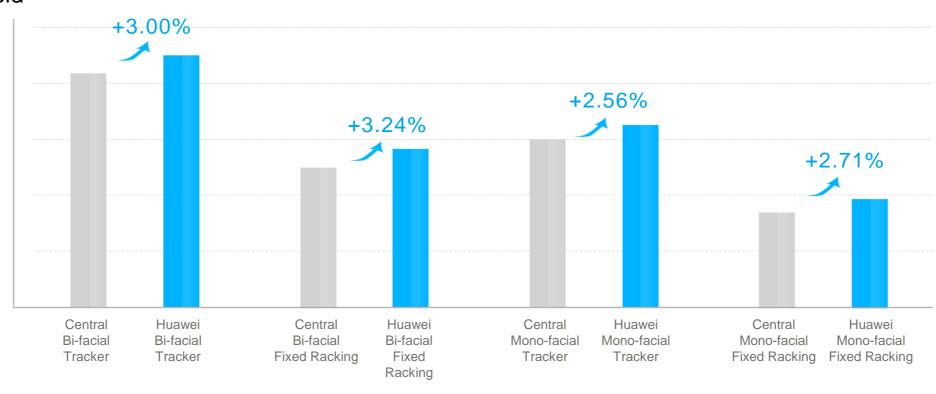
3rd Party Test Verifying the Inverter Efficiency Authenticity

manufacturers with inflated efficiency resulting customers' yield loss



3% Higher Yields FusionSolar Smart PV Solution + Bi-facial

Yield



Inverter
Huawei Inverter vs SXX Central Inverter

PV Module
TXX 395W Bi-facial vs TXX 335W Mono-facial

Simulation Location Seville, Spain

High Reliability

Fuse-free Design Eliminating Fire Risk from the Source

Why fuse is required?

The DC side short circuit can cause reverse current, which may damage the module and inverter. The fuse shall be fused in time for protection.

Potential Fire Hazard with Fuse

The fuse is fused at high temperature. In case of short circuit, if the fuse cannot be fused in a short time, the continuous high heat can burn the inverter and cause a fire.

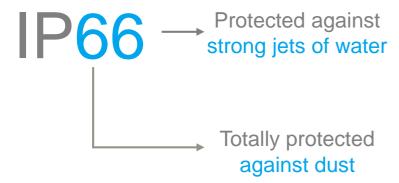
Huawei Fuse-free Design Eliminating Fire Risk

2 strings in 1 MPPT, reverse current being <11A, harmless to module and inverter, no fuse required



High Reliability

IP66 Fully-sealed Design





Best-match severe environment

High Reliability

25yrs Lifespan

Self-development + Joint Innovation Complete Reliability Test Guarantee 25yrs Lifespan



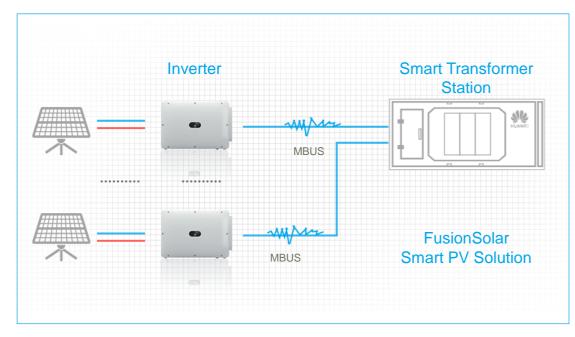
MBUS Replacing RS485 Cable for More Reliable Data Transmission

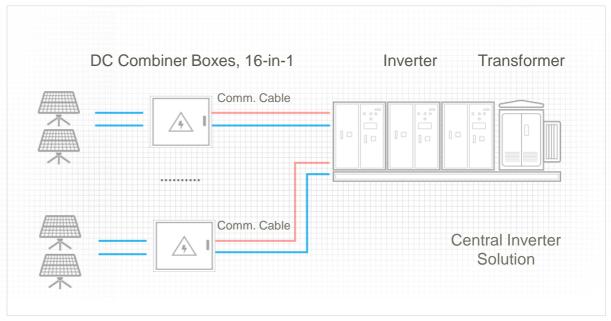
No RS485 Cable Required, Data Transmission via AC Cable Communication Distance up to 1,000m for Larger Blocks Robust & High Reliability with 0-touch Maintenance



Simple Design

No DC/AC Combiner Boxes, Built-in DC & AC Surge Arresters

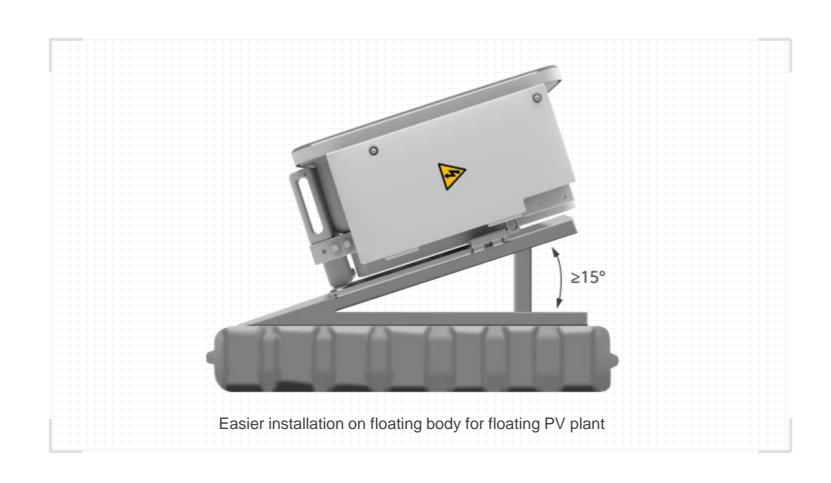




- 20 x SUN2000-100KTL-M1
- 1 x 2MVA Transformer

- 25 x 16-in-1 DC Combiner Box
- 2 x Central Inverter
- 1 x 2MVA Transformer
- 500m x Communication Cable

Easy Installation Support >15°Horizontal Installation



Easy Carrying

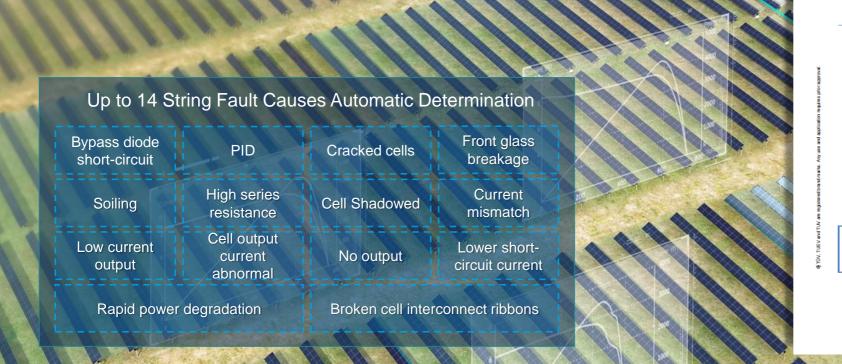
Four Optional Handles for Convenient Lifting





TUV Certified Smart I-V Curve Diagnosis 3.0, Global Application over 5GW

- Remote & On-line Diagnosis, Avoiding Yield Loss
- One-click Start, No Professional Device Required
- 15min for 100MW Plant 100% Full-load Diagnosis
- Up to 14 String Fault Causes Automatic Determination, Providing Recovery Advice
- Compatible with Bi-facial Module





光伏电站测试报告

PV Plant Test Report

智能组串管理功能验证

Intelligent PV array Management Function Acceptance

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Pinpoint Module Fault, Avoiding >5% Yield Loss

Jiangsu 10MW Solar + Fishery PV plant (approx. 1,600 strings)





String Information							
	es per string; lline module	24 PV modules per string; polycrystalline module					
Pmax (Wp)	280	Pmax (Wp)	275				
Vm (V)	32.50	Vm (V)	31.10				
Im (A)	8.62	Im (A)	8.48				
Voc (V)	39.30	Voc (V)	38.40				
Isc (A)	9.39	Isc (A)	9.21				

103 faulty strings being located; majority faulty reasons being birds droppings and glass breakage

Birds Droppings

Fault Cause Determination

String Faulty Rate 6.41%



•	Qty. of total string = 1608						
	String description	Qty.	% of total string				
	Normal	1505	93.59%				
	PV module output current abnormal (shade/glass breakage/hidden crack)		4.04%				
ı	Current mismatch in the PV string		1.12%				
ı	PV module with hidden crack or hot-spot	17	1.06%				
Í	PV string voltage abnormal	2	0.12%				
	PV string open circuit	1	0.06%				

Array	Inverter	String	Qty	Description	Action
1#Array	INV1	1	1	PV module output current abnormal (shade/glass breakage/hidden crack)	Birds droppings being found and cleaned
3#Array	INV3	7	1	Current mismatch in the PV string	Birds droppings being found and cleaned
	INV4	7/8	2	PV string voltage abnormal	PV module being removed for test and being re-installed
4#Array	INV2	2	1	PV string open circuit	String 2 connectors being burnt and replaced
	INV4	7	1	PV module output current abnormal (shade/glass breakage/hidden crack)	Birds droppings being found and cleaned
	INV5	7	1	PV module output current abnormal (shade/glass breakage/hidden crack)	Birds droppings being found and cleaned
5#Array	INV1	6	1	PV module with hidden crack or hot- spot	Birds droppings being found and cleaned
6#Array	INV1	2/4/7	3	Current mismatch in the PV string	Shading from trees being found and trees being felled
	INV3	3	1	PV module output current abnormal (shade/glass breakage/hidden crack)	Birds droppings being found and cleaned
7#Array	INV1	3	1	PV string open circuit	PV module being removed for test and being re-installed

愿景和使命

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