

# FusionSolar **Smart Micro-grid Solution**



## About Huawei

Huawei is a leading global provider of information and communications technology (ICT) infrastructure and smart devices. With integrated solutions across four key domains – telecom networks, IT, smart devices, and cloud services – we are committed to bringing digital to every person, home and organization for a fully connected, intelligent world. Huawei's end-to-end portfolio of products, solutions and services are both competitive and secure. Through open collaboration with ecosystem partners, we create lasting value for our customers, working to empower people, enrich home life, and inspire innovation in organizations of all shapes and sizes. At Huawei, innovation focuses on customer needs. We invest heavily in basic research, concentrating on technological breakthroughs that drive the world forward.



Employees  
**195,000+**



R&D Personnel  
**107,000+**



Countries  
**170+**



Brand Finance Global 500  
**9**

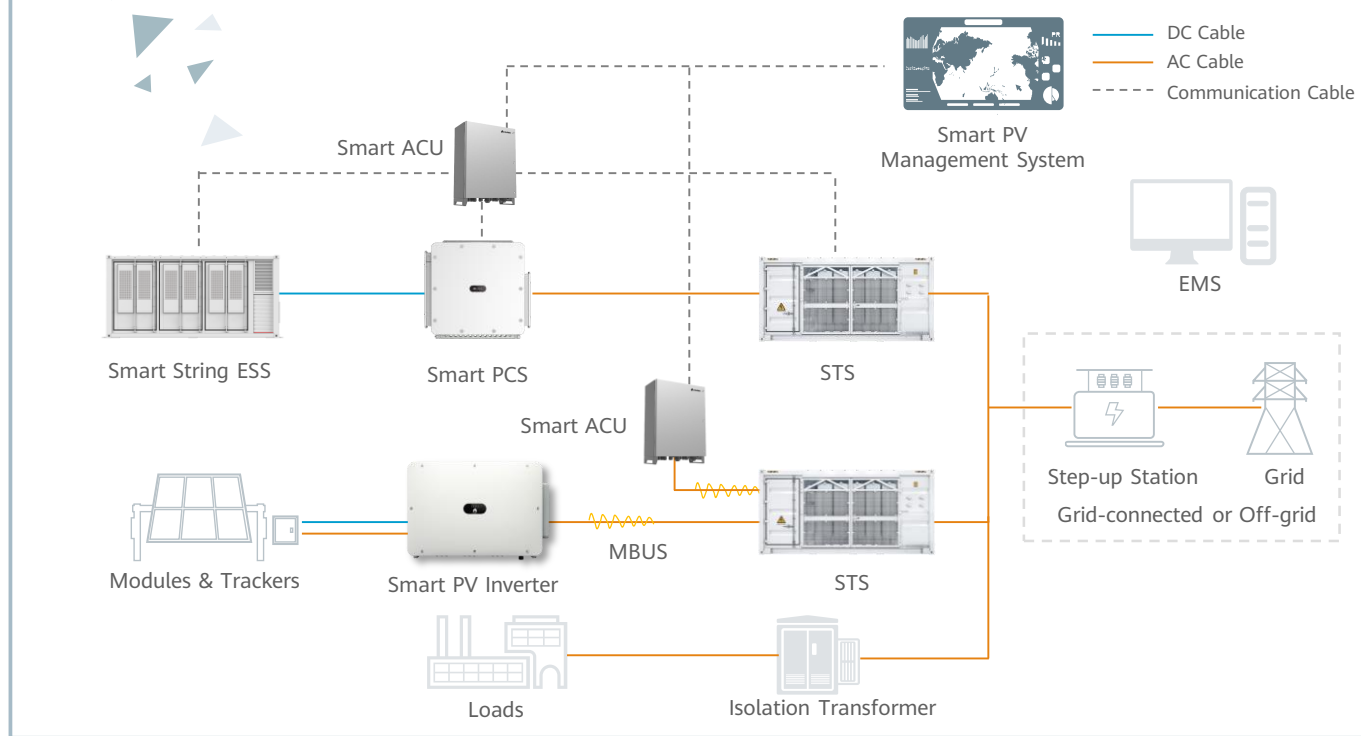


Fortune Global 500  
**96**



R&D Investment  
**2**

# FusionSolar Smart Micro-grid Solution



## Higher Resilience

## Optimal LCOE

## Proactive Safety



# LUNA2000-2.0MWH-2H1

## Smart String ESS



More Energy



Optimal Design

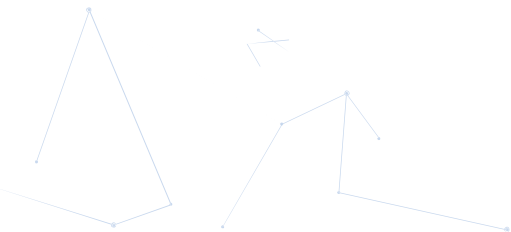


Simple O&M



Safe & Reliable

Battery Container	
DC Rated Voltage	1,250 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	2,032 kWh
Rated Power	203.2 kW * 5
Container Configuration (W x H x D)	6,058 x 2,896 x 2,438 mm
Container Weight	≤ 30 t
Operation Temperature Range	-30°C ~ 55°C
Storage Temperature Range	-40°C ~ 60°C
Operation Humidity Range	0 ~ 100% (Without Condensation)
Max. Operating Altitude	4,000 m
Cooling Method	Smart Air Cooling
Configuration of HVAC	4 HVACs
Fire Suppression Agent	FM-200 / Novec 1230™
Communication Interface	Ethernet / SFP
Communication Protocol	Modbus TCP / IEC 104
Protection Degree	IP55
Black Start	Supported
Applicable Standards	
Environment	RoHS6
Safety & Electrical	IEC 62477-1, IEC 62040-1, IEC 61000-6-2, EN 55011, UL 9540A, IEC 62169, UN 3536, etc.



# LUNA2000-2.0MWH-4H1

## Smart String ESS



**More Energy**



**Optimal Design**



**Simple O&M**



**Safe & Reliable**

Battery Container	
DC Rated Voltage	1,250 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	2,032 kWh
Rated Power	169.5 kW * 3
Container Configuration (W x H x D)	6,058 x 2,896 x 2,438 mm
Container Weight	≤ 30 t
Operation Temperature Range	-30°C ~ 55°C
Storage Temperature Range	-40°C ~ 60°C
Operation Humidity Range	0 ~ 100% (Without Condensation)
Max. Operating Altitude	4,000 m
Cooling Method	Smart Air Cooling
Configuration of HVAC	2 HVACs
Fire Suppression Agent	FM-200 / Novec 1230™
Communication Interface	Ethernet / SFP
Communication Protocol	Modbus TCP / IEC 104
Protection Degree	IP55
Black Start	Supported
Applicable Standards	
Environment	RoHS6
Safety & Electrical	IEC 62477-1, IEC 62040-1, IEC 61000-6-2, EN 55011, UL 9540A, IEC 62169, UN 3536, etc.

# LUNA2000-2.0MWH-1H1 (Preliminary)

## Smart String ESS



More Energy



Optimal Design

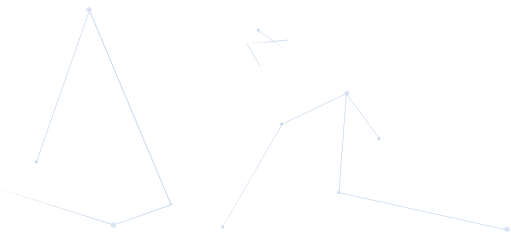


Simple O&M



Safe & Reliable

Battery Container	
DC Rated Voltage	1,250 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	2,032 kWh
Rated Power	338.7 kW * 6
Container Configuration (W x H x D)	6,058 x 2,896 x 2,438 mm
Container Weight	≤ 30 t
Operation Temperature Range	-30°C ~ 55°C
Storage Temperature Range	-40°C ~ 60°C
Operation Humidity Range	0 ~ 100% (Without Condensation)
Max. Operating Altitude	4,000 m
Cooling Method	Smart Air Cooling
Configuration of HVAC	6 HVACs
Fire Suppression Agent	FM-200 / Novec 1230™
Communication Interface	Ethernet / SFP
Communication Protocol	Modbus TCP / IEC 104
Protection Degree	IP55
Black Start	Supported
Applicable Standards	
Environment	RoHS6
Safety & Electrical	IEC 62477-1, IEC 62040-1, IEC 61000-6-2, EN 55011, UL 9540A, IEC 62169, UN 3536, etc.



# LUNA2000-1.0MWH-1H1 (Preliminary)

## Smart String ESS



More Energy



Optimal Design



Simple O&M



Safe & Reliable

Battery Container	
DC Rated Voltage	1,250 V
DC Max. Voltage	1,500 V
Nominal Energy Capacity	1,016 kWh
Rated Power	338.7 kW * 3
Container Configuration (W x H x D)	6,058 x 2,896 x 2,438 mm
Container Weight	≤ 20 t
Operation Temperature Range	-30°C ~ 55°C
Storage Temperature Range	-40°C ~ 60°C
Operation Humidity Range	0 ~ 100% (Without Condensation)
Max. Operating Altitude	4,000 m
Cooling Method	Smart Air Cooling
Configuration of HVAC	3 HVACs
Fire Suppression Agent	FM-200 / Novec 1230™
Communication Interface	Ethernet / SFP
Communication Protocol	Modbus TCP / IEC 104
Protection Degree	IP55
Black Start	Supported
Applicable Standards	
Environment	RoHS6
Safety & Electrical	IEC 62477-1, IEC 62040-1, IEC 61000-6-2, EN 55011, UL 9540A, IEC 62169, UN 3536, etc.



# Smart String ESS

## Battery Pack & Smart Rack Controller



Battery Pack	
General	
Cell Material	LFP
Pack Configuration	18S 1P
Rated Voltage	57.6 V
Nominal Capacity	280 Ah / 16.13 kWh
Supported Charge & Discharge Rate	$\leq 1\text{ C}$
Weight	$\leq 140\text{ kg}$
Dimensions (W x H x D)	442 x 307 x 660 mm



Smart Rack Controller	
Battery Side	
Rated Voltage	1,209.6 V
Operating Voltage Range	40 V ~ 1,400 V
Rated Power Voltage Range	1,075 V ~ 1,320 V
Min. Start Voltage	350 V
Bus Side	
Max. DC Voltage	1,500 V
Rated Voltage	1,250 V
Rated Current	275.2 A
Rated Power	344,000 W
General	
Dimensions (W x H x D)	600 x 270 x 820 mm
Weight	$\leq 90\text{ kg}$
Cooling Method	Smart Air Cooling
Protection Degree	IP66



# LUNA2000-200KTL-H1

## Smart PCS



Max. Efficiency 99%



Modular Design



IP66 Protection



Surge Arresters for  
DC & AC

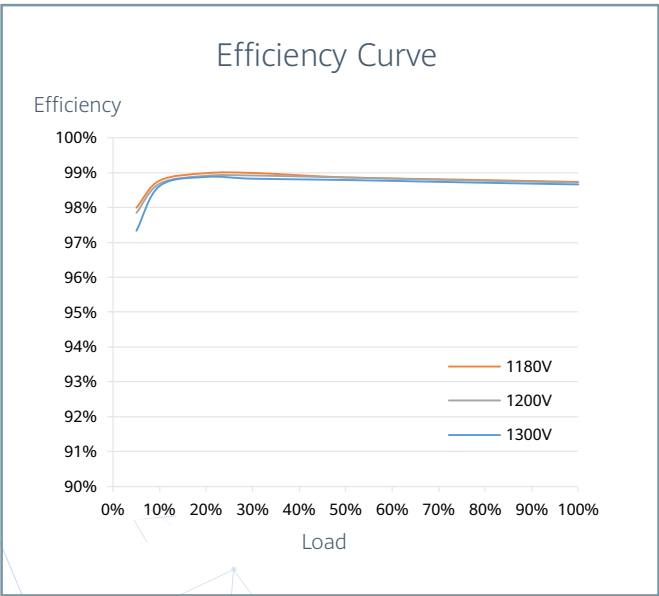


Ethernet  
Communication

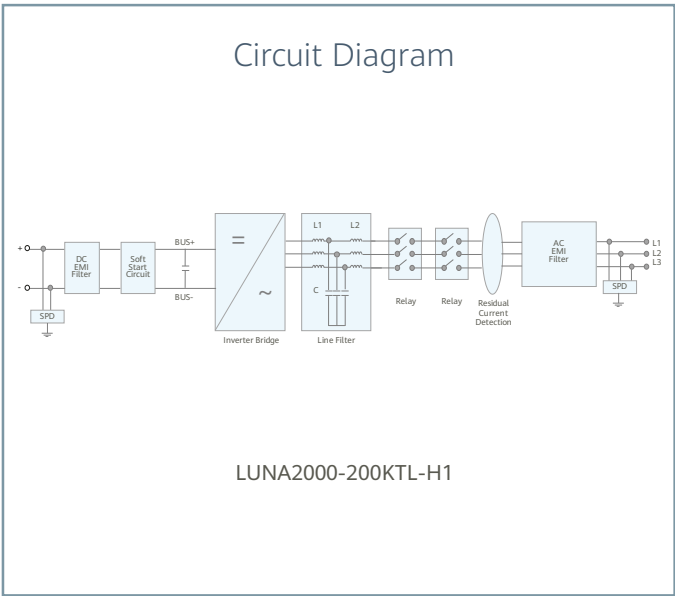


Smart Grid  
Algorithm

Efficiency Curve



Circuit Diagram



LUNA2000-200KTL-H1

# Technical Specifications

Efficiency	
Max. Efficiency	99.0%
DC Side	
Rated DC Voltage	1,180 V
Max. DC Voltage	1,500 V
Operating DC Voltage Range	1,180 V ~ 1,500 V
Max. DC Current	207.6 A
Max. Number of Inputs	1
AC Side(On-grid)	
Rated AC Active Power	200,000 W @40°C
Rated AC Voltage	800 Vac, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Max. AC Current	173.2 A
Adjustable Power Factor Range	-1 ... +1
Max. Total Harmonic Distortion	THD <sub>i</sub> < 3%
AC Side(Off-grid)	
Rated AC Voltage	800 Vac, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Max. AC Current	173.2 A
Max. Total Harmonic Distortion	THD <sub>u</sub> < 1.5 % (Linear Loads)
Standalone Operation / Black Start	Yes
Unbalance Operation	Yes (With Transformer)
Protection	
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Protection	Yes
DC Surge Protection <sup>1</sup>	Type II
AC Surge Protection <sup>1</sup>	Type II
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
Ethernet	Yes
General	
Dimensions (W x H x D)	875 x 820 x 365 mm
Weight	< 95 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m
Relative Humidity	0 ~ 100%
DC Connector	OT/DT Terminal
AC Connector	OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

1: Compatible Type II protection class according to IEC / EN 61643-11

# SUN2000-330KTL-H1 (Preliminary)

## Smart String Inverter



Max. Efficiency  
≥99.0%



Smart Self Clean Fan



Smart DC Connector  
Temperature Detect



Smart String Level  
Disconnection



28 High Accuracy String  
Current Detect



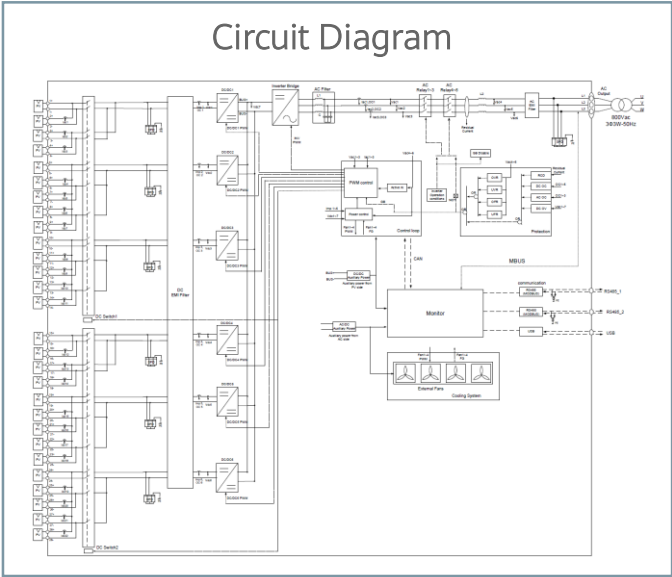
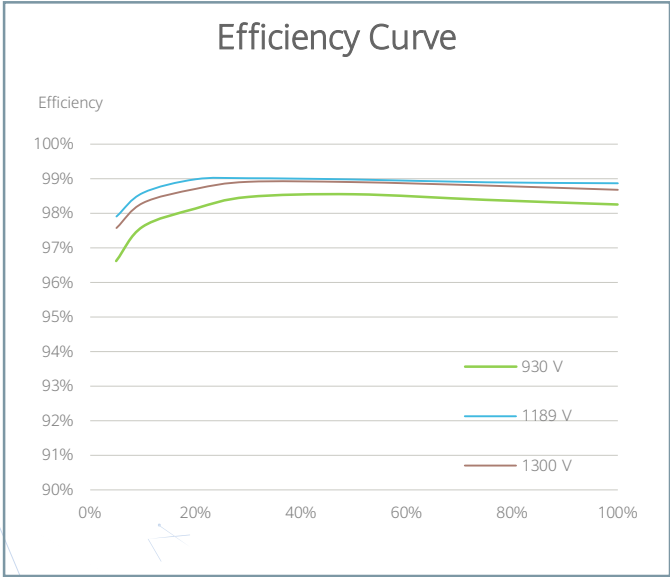
Support IV diagnosis



IP 66 protection



Surge Arresters for  
DC & AC



# Technical Specifications (Preliminary)

Efficiency	
Max. Efficiency	≥99.0%
European Efficiency	≥98.8%
Input	
Max. Input Voltage	1,500 V
Number of MPP Trackers	6
Max. Current per MPPT	65 A
Max. Short Circuit Current per MPPT	115 A
Max. PV Inputs per MPPT	4/5/5/4/5/5
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Output	
Nominal AC Active Power	300,000 W
Max. AC Apparent Power	330,000 VA
Max. AC Active Power (cosφ=1)	330,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	216.6 A
Max. Output Current	238.2 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Total Harmonic Distortion	< 1%
Protection	
Smart String-Level Disconnect(SSLD)	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
AC Grounding Fault Protection	Yes
Residual Current Monitoring Unit	Yes
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,048 x 732 x 395 mm
Weight (with mounting plate)	≤112 kg
Operating Temperature Range	-25 °C ~ 60 °C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m ( 13,123 ft. )
Relative Humidity	0 ~ 100%
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
Topology	Transformerless

# SUN2000-215KTL-H3

## Smart String Inverter



100A  
Per MPPT



Max. Efficiency  
≥99.0%



Smart String-Level  
Disconnect



Smart I-V Curve  
Diagnosis Supported



MBUS  
Supported



Fuse Free  
Design

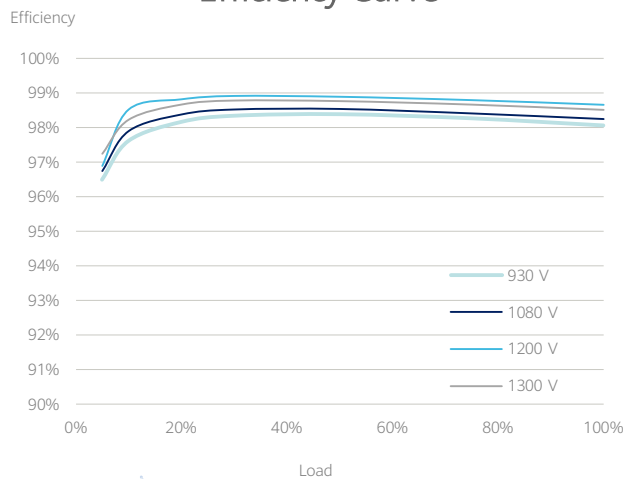


Surge Arresters for  
DC & AC

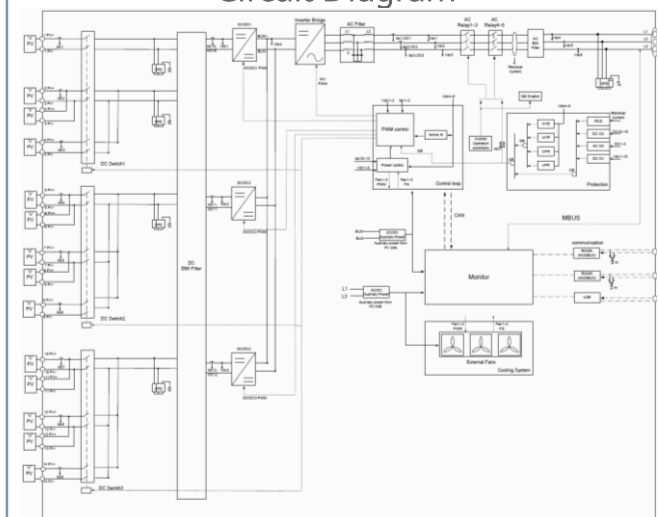


IP66  
Protection

### Efficiency Curve



### Circuit Diagram



# Technical Specifications

Efficiency	
Max. Efficiency	≥99.0%
European Efficiency	≥98.8%
Input	
Max. Input Voltage	1,500 V
Number of MPP Trackers	3
Max. Current per MPPT	100A/100A/100A
Max. PV Inputs per MPPT	4/5/5
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Output	
Nominal AC Active Power	200,000 W
Max. AC Apparent Power	215,000 VA
Max. AC Active Power (cosφ=1)	215,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	144.4 A
Max. Output Current	155.2 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 1%
Protection	
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,035 x 700 x 365 mm
Weight (with mounting plate)	≤ 86 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m
Relative Humidity	0 ~ 100%
DC Connector	Staubli MC4 EVO2
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

# SUN2000-215KTL-H0

## Smart String Inverter



9  
MPP Trackers



Max. Efficiency  
≥99.0%



Smart String-Level  
Disconnect



Smart I-V Curve  
Diagnosis Supported



MBUS  
Supported



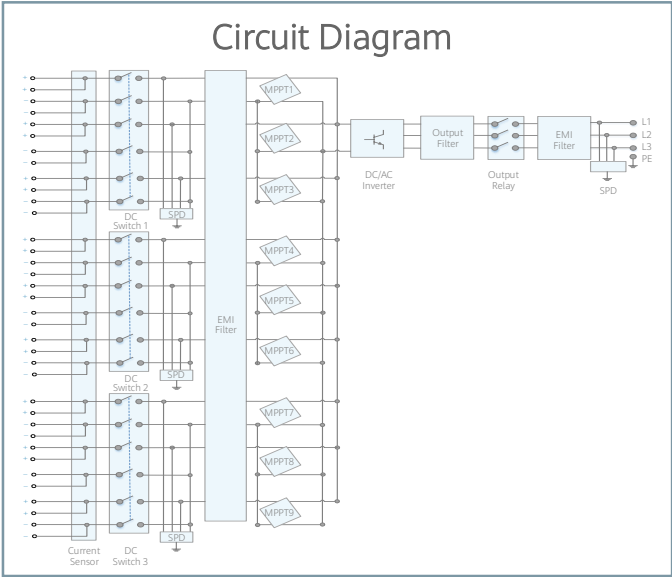
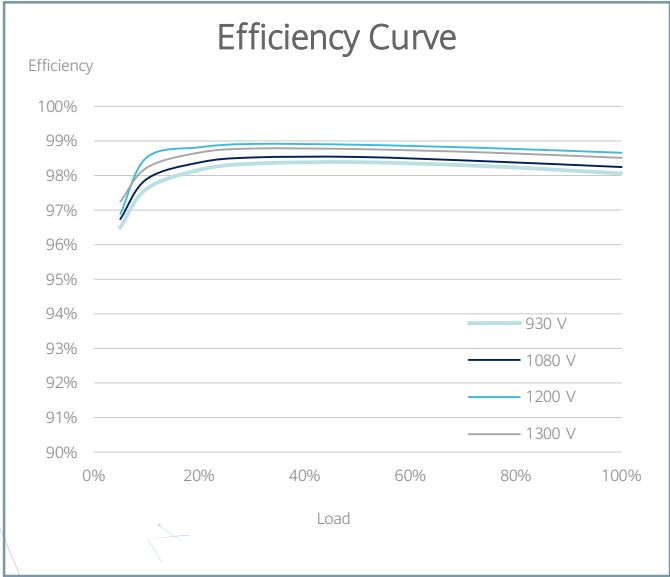
Fuse Free  
Design



Surge Arresters for  
DC & AC



IP66  
Protection



# Technical Specifications

Efficiency	
Max. Efficiency	99.00%
European Efficiency	98.80%
Input	
Max. Input Voltage	1,500 V
Max. Current per MPPT	30 A
Max. Short Circuit Current per MPPT	50 A
Start Voltage	550 V
MPPT Operating Voltage Range	500 V ~ 1,500 V
Nominal Input Voltage	1,080 V
Number of Inputs	18
Number of MPP Trackers	9
Output	
Nominal AC Active Power	200,000 W
Max. AC Apparent Power	215,000 VA
Max. AC Active Power ( $\cos\phi=1$ )	215,000 W
Nominal Output Voltage	800 V, 3W + PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	144.4 A
Max. Output Current	155.2 A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Total Harmonic Distortion	< 1%
Protection	
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Communication	
Display	LED Indicators, WLAN + APP
USB	Yes
MBUS	Yes
RS485	Yes
General	
Dimensions (W x H x D)	1,035 x 700 x 365 mm
Weight (with mounting plate)	≤ 86 kg
Operating Temperature Range	-25°C ~ 60°C
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m
Relative Humidity	0 ~ 100%
DC Connector	Staubli MC4 EVO2
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

# JUPITER-9000K-H1 (Preliminary)

## Smart Transformer Station



### Simple

Prefabricated and Pre-tested, No Internal Cabling Needed Onsite  
Compact 20' HC Container Design for Easy Transportation



### Efficient

High Efficiency Transformer for Higher Yields  
Lower Self-consumption for Higher Yields



### Smart

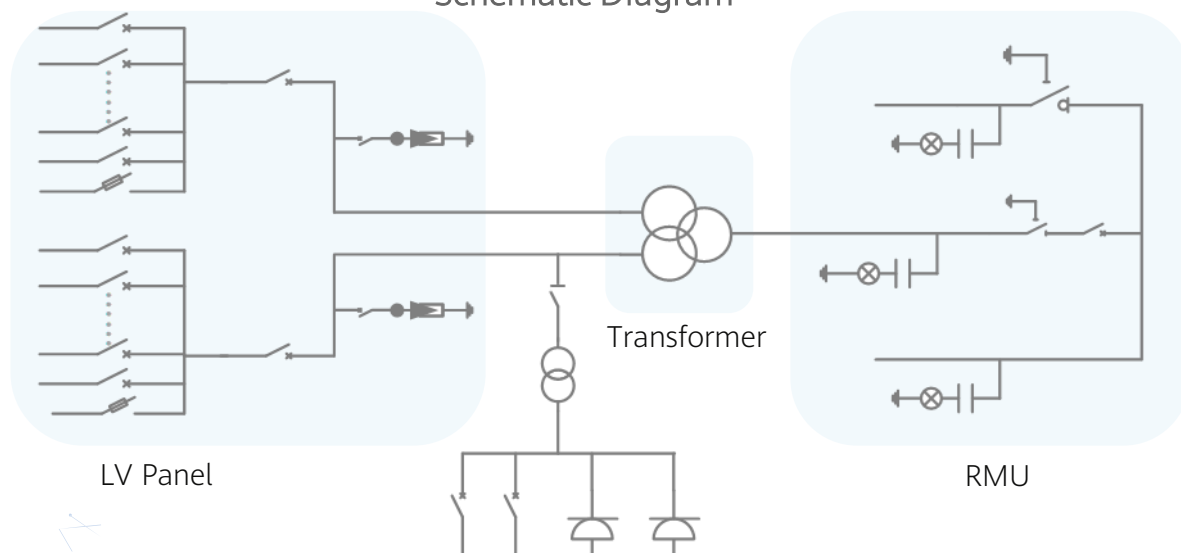
Real-time Monitoring of Transformer, LV Panel and RMU  
High Precision Sensor of LV Electricity Parameters  
Remote Control of ACB and MV Circuit Breaker



### Reliable

Robust Design against Harsh Environments  
Optimal Cooling Design for High Availability and Easy O&M  
Comprehensive Tests from Components, Device to Solution

### Schematic Diagram



# Technical Specifications(Preliminary)

Input		
Available Inverters	SUN2000-330KTL	
Max. LV AC Inputs	30	
AC Power	9,000 kVA @40°C / 8,250 kVA @50°C <sup>1</sup>	
Rated Input Voltage	800 V	
LV Main Inputs	ACB (4,000 A / 800 V / 3P, 2 x 1 pcs), MCCB (400 A / 800 V / 3P, 2 x 15 pcs)	
Output		
Rated Output Voltage	22 kV, 30 kV, 33 kV, 35 kV <sup>2</sup>	33 kV, 34.5 kV <sup>2</sup>
Frequency	50 Hz	60 Hz
Transformer Type	Oil-immersed, Conservator Type	
Transformer Cooling Type	ONAN	
Transformer Tappings	± 2 x 2.5%	
Transformer Oil Type	Mineral Oil (PCB Free)	
Transformer Vector Group	Dy11-y11	
Transformer Min. Peak Efficiency Index	In Accordance with EN 50588-1	
RMU Type	SF <sub>6</sub> Gas Insulated	
RMU Transformer Protection Unit	MV Vacuum Circuit Breaker Unit	
RMU Cable Incoming / Outgoing Unit	Direct Cable Unit or Cable Load Break Switch Unit	
Auxiliary Transformer	Dry Type Transformer, 5 kVA, li0	
Output Voltage of Auxiliary Transformer	800 / 230 / 127 Vac	
Protection		
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz	
Protection Degree of MV & LV Room	IP 54	
Internal Arcing Fault of STS	IAC A 20 kA 1s	
MV Relay Protection	50/51, 50N/51N	
LV Overvoltage Protection	Type I+II	
Anti-rodent Protection	C5 in accordance with ISO 12944	
Features		
2 kVA UPS	Optional <sup>3</sup>	
MV Surge Arrester for Transformer	Optional <sup>3</sup>	
General		
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20’ HC Container)	
Weight	< 28 t	
Operating Temperature Range	-25°C ~ 60°C <sup>4</sup> (-13°F ~ 140°F)	
Relative Humidity	0% ~ 95%	
Max. Operating Altitude	1,000 m <sup>5</sup>	
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite	
LV & MV Room Cooling	Smart Cooling without Air-across for Higher Availability	
Communication	Modbus TCP, Preconfigured with SmartACU2000D	
Applicable Standards	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1	

1 - More detailed AC power of STS, please refer to the de-rating curve.

2 - Rated output voltage from 10 kV to 35 kV, more available upon request.

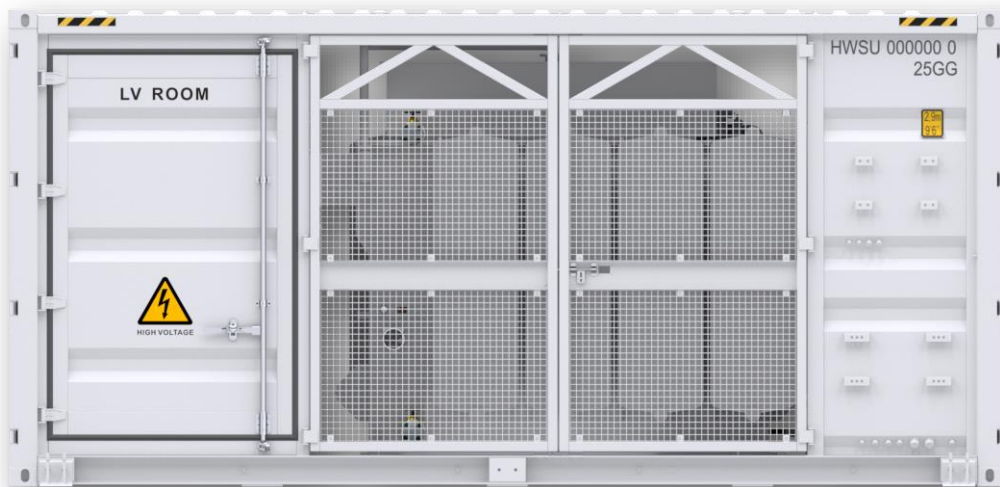
3 - Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4 -When ambient temperature ≥55°C, awning shall be equipped for STS on site by customer.

5- For higher operating altitude, pls consult with Huawei.

# JUPITER-6000K-H1 (Preliminary)

## Smart Transformer Station



### Simple

Prefabricated and Pre-tested, No Internal Cabling Needed Onsite  
Compact 20' HC Container Design for Easy Transportation



### Efficient

High Efficiency Transformer for Higher Yields  
Lower Self-consumption for Higher Yields



### Smart

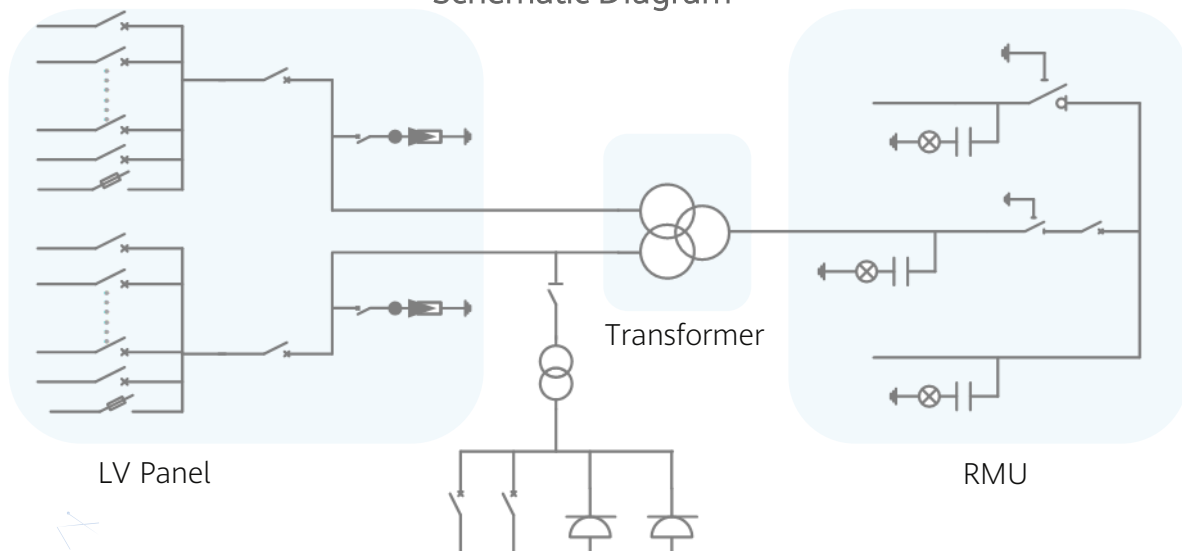
Real-time Monitoring of Transformer, LV Panel and RMU  
High Precision Sensor of LV Electricity Parameters  
Remote Control of ACB and MV Circuit Breaker



### Reliable

Robust Design against Harsh Environments  
Optimal Cooling Design for High Availability and Easy O&M  
Comprehensive Tests from Components, Device to Solution

### Schematic Diagram



# Technical Specifications(Preliminary)

Input		
Available Inverters / PCS	SUN2000-330KTL	
Maximum LV AC Inputs	22	
AC Power	6,600 kVA @40°C / 6,050 kVA @50°C <sup>1</sup>	
Rated Input Voltage	800 V	
LV Main Switches	ACB (2,900 A / 800 V / 3P, 2 x 1 pcs), MCCB (400 A / 800 V / 3P, 2 x 11 pcs)	
Output		
Rated Output Voltage	10 kV, 13.2 kV, 15 kV, 20 kV, 22 kV, 30 kV, 33 kV, 35 kV <sup>2</sup>	12.47 kV,13.8 kV, 23 kV, 33 kV, 34.5 kV <sup>2</sup>
Frequency	50 Hz	60 Hz
Transformer Type	Oil-immersed, Conservator Type	
Transformer Cooling Type	ONAN	
Transformer Tappings	± 2 x 2.5%	
Transformer Oil Type	Mineral Oil (PCB Free)	
Transformer Vector Group	Dy11-y11	
Transformer Min. Peak Efficiency Index	In Accordance with EN 50588-1	
RMU Type	SF <sub>6</sub> Gas Insulated	
RMU Transformer Protection Unit	MV Vacuum Circuit Breaker Unit	
RMU Cable Incoming / Outgoing Unit	Direct Cable Unit or Cable Load Break Switch Unit	
Auxiliary Transformer	Dry Type Transformer, 5 kVA, li0	
Output Voltage of Auxiliary Transformer	800 / 230 / 127 Vac	
Protection		
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz	
Protection Degree of MV & LV Room	IP 54	
Internal Arcing Fault Classification of STS	IAC A 20 kA 1s	
MV Relay Protection	50/51, 50N/51N	
LV Overvoltage Protection	Type I-II	
Anti-rodent Protection	C5 in accordance with ISO 12944	
Features		
2 kVA UPS	Optional <sup>3</sup>	
MV Surge Arrester for Transformer	Optional <sup>3</sup>	
General		
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20’ HC Container)	
Weight	< 22 t	
Operating Temperature Range	-25°C ~ 60°C <sup>4</sup> (-13°F ~ 140°F)	
Relative Humidity	0% ~ 95%	
Max. Operating Altitude	1,000 m <sup>5</sup>	
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite	
LV & MV Room Cooling	Smart Cooling without Air-across for Higher Availability	
Communication	Modbus-RTU, Preconfigured with Smartlogger3000B	
Applicable Standards	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1	

1 - More detailed AC power of STS, please refer to the de-rating curve.

2 - Rated output voltage from 10 kV to 35 kV, more available upon request.

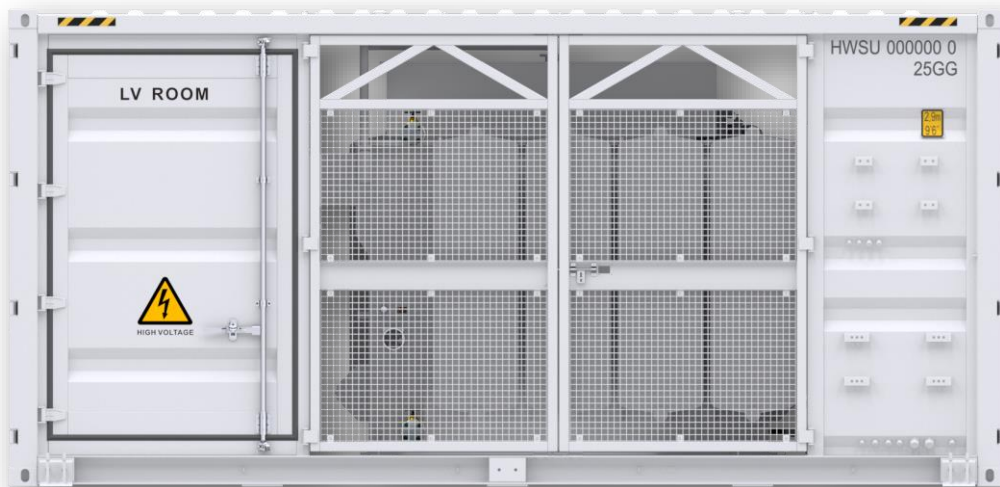
3 - Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4 - When ambient temperature ≥ 55°C, awning shall be equipped for STS on site by customer.

5 - For higher operating altitude, pls consult with Huawei.

# JUPITER-3000K-H1 (Preliminary)

## Smart Transformer Station



### Simple

Prefabricated and Pre-tested, No Internal Cabling Needed Onsite  
Compact 20' HC Container Design for Easy Transportation



### Efficient

High Efficiency Transformer for Higher Yields  
Lower Self-consumption for Higher Yields



### Smart

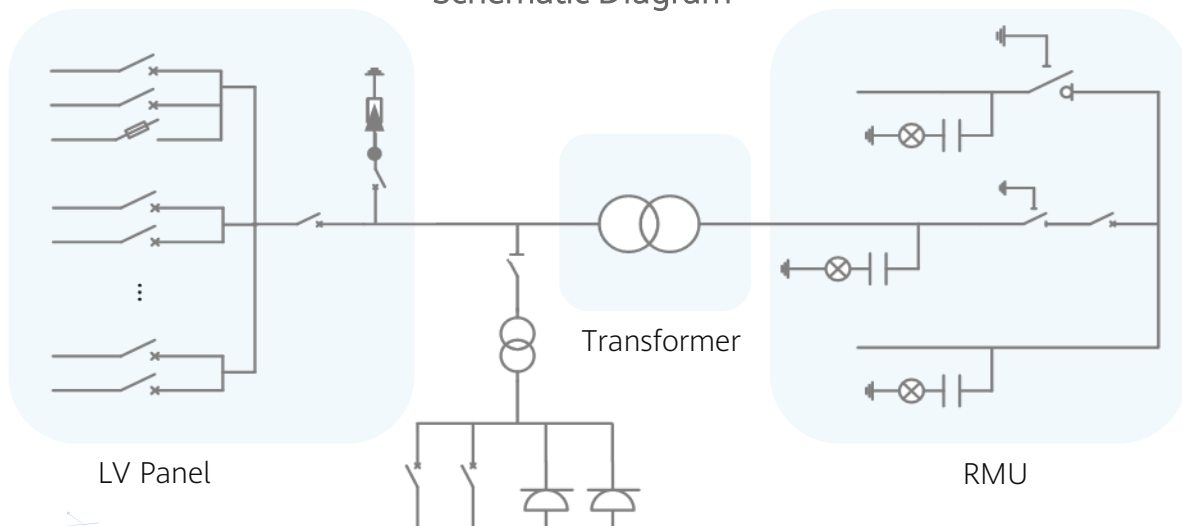
Real-time Monitoring of Transformer, LV Panel and RMU  
High Precision Sensor of LV Electricity Parameters  
Remote Control of ACB and MV Circuit Breaker



### Reliable

Robust Design against Harsh Environments  
Optimal Cooling Design for High Availability and Easy O&M  
Comprehensive Tests from Components, Device to Solution

### Schematic Diagram



# Technical Specifications (Preliminary)

Input		
Available Inverters / PCS	SUN2000-330KTL	
Maximum LV AC Inputs	11	
AC Power	3,300 kVA @40°C / 2,970 kVA @50°C <sup>1</sup>	
Rated Input Voltage	800 V	
LV Main Switches	ACB (2,900 A / 800 V / 3P, 1 x 1 pcs), MCCB (400 A / 800 V / 3P, 11 pcs)	
Output		
Rated Output Voltage	10 kV, 13.2 kV, 15 kV, 20 kV, 22 kV, 30 kV, 33 kV, 35 kV <sup>2</sup>	13.8 kV, 33 kV, 34.5 kV <sup>2</sup>
Frequency	50 Hz	60 Hz
Transformer Type	Oil-immersed, Conservator Type	
Transformer Cooling Type	ONAN	
Transformer Tappings	± 2 x 2.5%	
Transformer Oil Type	Mineral Oil (PCB Free)	
Transformer Vector Group	Dy11	
Transformer Min. Peak Efficiency Index	In Accordance with EN 50588-1	
RMU Type	SF <sub>6</sub> Gas Insulated	
RMU Transformer Protection Unit	MV Vacuum Circuit Breaker Unit	
RMU Cable Incoming / Outgoing Unit	Direct Cable Unit or Cable Load Break Switch Unit	
Auxiliary Transformer	Dry Type Transformer, 5 kVA, li0	
Output Voltage of Auxiliary Transformer	800 / 230 / 127 Vac	
Protection		
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz	
Protection Degree of MV & LV Room	IP 54	
Internal Arcing Fault Classification of STS	IAC A 20 kA 1s	
MV Relay Protection	50/51, 50N/51N	
LV Overvoltage Protection	Type I+II	
Anti-rodent Protection	C5 in accordance with ISO 12944	
Features		
2 kVA UPS	Optional <sup>3</sup>	
MV Surge Arrester for Transformer	Optional <sup>3</sup>	
General		
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20' HC Container)	
Weight	< 15 t	
Operating Temperature Range	-25°C ~ 60°C <sup>4</sup> (-13°F ~ 140°F)	
Relative Humidity	0% ~ 95%	
Max. Operating Altitude	1,000 m <sup>5</sup>	
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite	
LV & MV Room Cooling	Smart Cooling without Air-across for Higher Availability	
Communication	Modbus-RTU, Preconfigured with Smartlogger3000B	
Applicable Standards	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1	

1 - More detailed AC power of STS, please refer to the de-rating curve.

2 - Rated output voltage from 10 kV to 35 kV, more available upon request.

3 - Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4 -When ambient temperature ≥55°C, awning shall be equipped for STS on site by customer.

5- For higher operating altitude, pls consult with Huawei.

# JUPITER-9000K-H0

## Smart Transformer Station



### Simple

Prefabricated and Pre-tested, No Internal Cabling Needed Onsite  
Compact 20' HC Container Design for Easy Transportation



### Efficient

High Efficiency Transformer for Higher Yields  
Lower Self-consumption for Higher Yields



### Smart

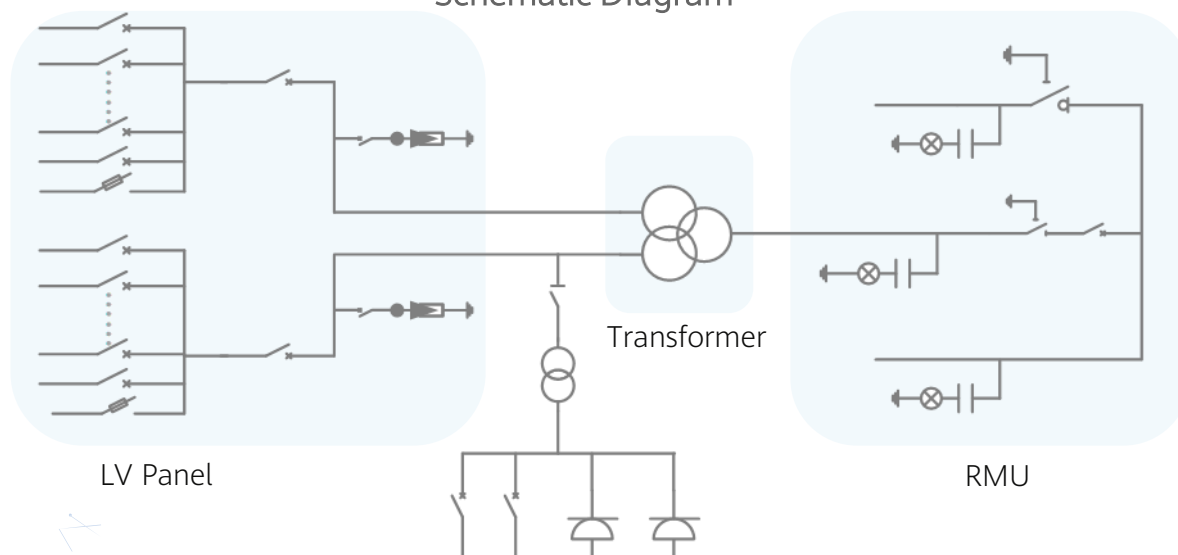
Real-time Monitoring of Transformer, LV Panel and RMU  
High Precision Sensor of LV Electricity Parameters  
Remote Control of ACB and MV Circuit Breaker



### Reliable

Robust Design against Harsh Environments  
Optimal Cooling Design for High Availability and Easy O&M  
Comprehensive Tests from Components, Device to Solution

### Schematic Diagram



# Technical Specifications

Input		
Available Inverters	SUN2000-200KTL / SUN2000-215KTL / SUN2000-185KTL / LUNA2000-200KTL	
Max. LV AC Inputs	44	
AC Power	9,000 kVA @40°C / 8,250 kVA @50°C <sup>1</sup>	
Rated Input Voltage	800 V	
LV Main Inputs	ACB (4,000 A / 800 V / 3P, 2 x 1 pcs), MCCB (250 A / 800 V / 3P, 2 x 22 pcs)	
Output		
Rated Output Voltage	10 kV, 11 kV, 13.2kV, 15 kV, 20 kV, 22 kV, 30 kV, 33 kV, 35 kV <sup>2</sup>	13.8 kV, 34.5 kV <sup>2</sup>
Frequency	50 Hz	60 Hz
Transformer Type	Oil-immersed, Conservator Type	
Transformer Cooling Type	ONAN	
Transformer Tappings	± 2 x 2.5%	
Transformer Oil Type	Mineral Oil (PCB Free)	
Transformer Vector Group	Dy11-y11	
Transformer Min. Peak Efficiency Index	In Accordance with EN 50588-1	
RMU Type	SF <sub>6</sub> Gas Insulated	
RMU Transformer Protection Unit	MV Vacuum Circuit Breaker Unit	
RMU Cable Incoming / Outgoing Unit	Direct Cable Unit or Cable Load Break Switch Unit	
Auxiliary Transformer	Dry Type Transformer, 5 kVA, li0	
Output Voltage of Auxiliary Transformer	800 / 230 / 127 Vac	
Protection		
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz	
Protection Degree of MV & LV Room	IP 54	
Internal Arcing Fault of STS	IAC A 20 kA 1s	
MV Relay Protection	50/51, 50N/51N	
LV Overvoltage Protection	Type I-II	
Anti-rodent Protection	C5 Medium in accordance with ISO 12944	
Features		
2 kVA UPS	Optional <sup>3</sup>	
MV Surge Arrester for Transformer	Optional <sup>3</sup>	
General		
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20' HC Container)	
Weight	< 28 t	
Operating Temperature Range	-25°C ~ 60°C <sup>4</sup> (-13°F ~ 140°F)	
Relative Humidity	0% ~ 95%	
Max. Operating Altitude	1,000 m <sup>5</sup>	
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite	
LV & MV Room Cooling	Smart Cooling without Air-across for Higher Availability	
Communication	Modbus TCP, Preconfigured with SmartACU2000D	
Applicable Standards	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1	

1 - More detailed AC power of STS, please refer to the de-rating curve.

2 - Rated output voltage from 10 kV to 35 kV, more available upon request.

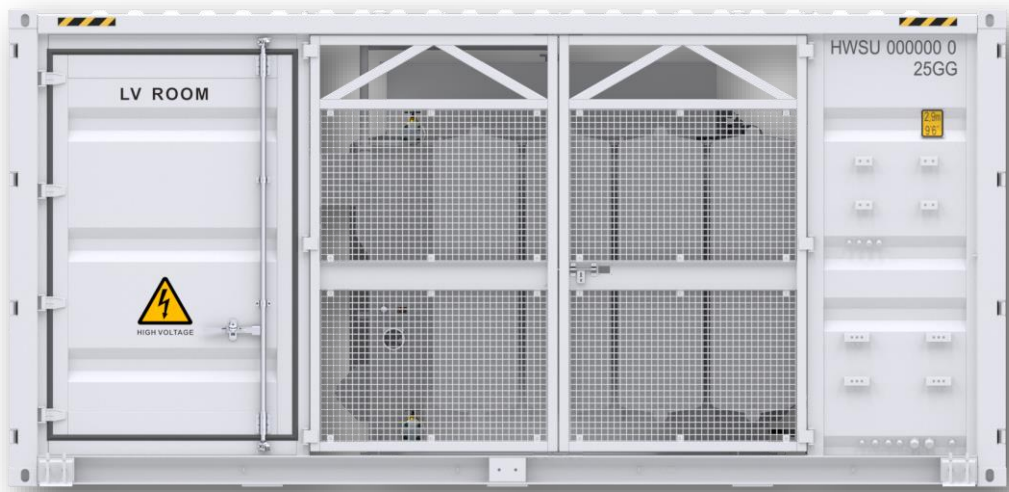
3 - Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4 -When ambient temperature ≥55°C, awning shall be equipped for STS on site by customer.

5- For higher operating altitude, pls consult with Huawei.

# STS-6000K-H1

## Smart Transformer Station



### Simple

Prefabricated and Pre-tested, No Internal Cabling Needed Onsite  
Compact 20' HC Container Design for Easy Transportation



### Efficient

High Efficiency Transformer for Higher Yields  
Lower Self-consumption for Higher Yields



### Smart

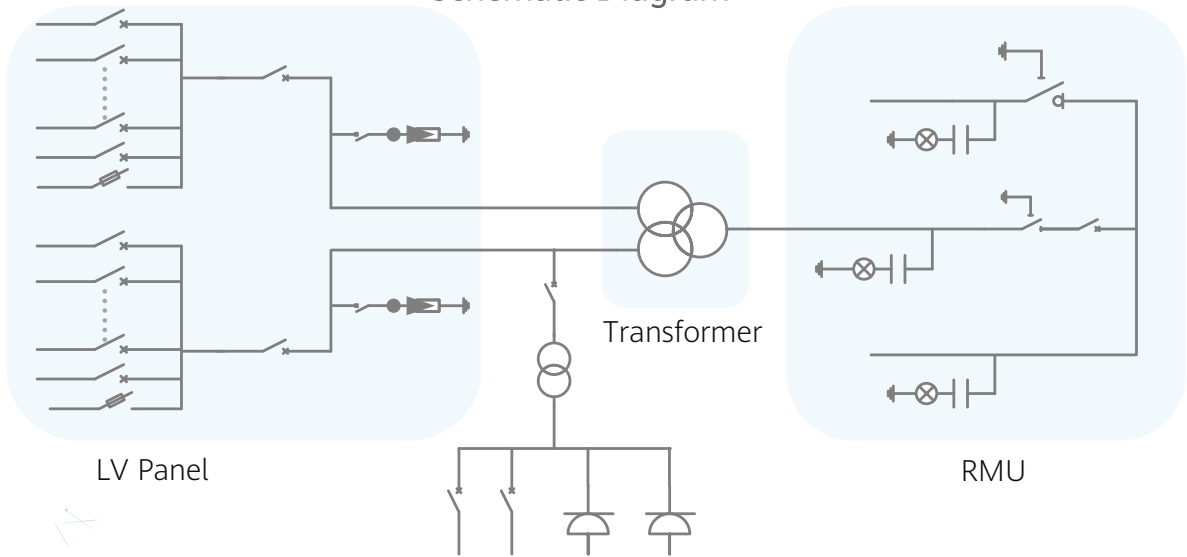
Real-time Monitoring of Transformer, LV Panel and RMU  
High Precision Sensor of LV Electricity Parameters  
Remote Control of ACB and MV Circuit Breaker



### Reliable

Robust Design against Harsh Environments  
Optimal Cooling Design for High Availability and Easy O&M  
Comprehensive Tests from Components, Device to Solution

### Schematic Diagram



# STS-6000K-H1

## Technical Specifications

Input		
Available Inverters / PCS	SUN2000-200KTL / SUN2000-215KTL / SUN2000-185KTL / LUNA2000-200KTL	
Maximum LV AC Inputs	34	
AC Power	6,800 kVA @40°C <sup>1</sup>	
Rated Input Voltage	800 V	
LV Main Switches	ACB (2,900 A / 800 V / 3P, 2 x 1 pcs), MCCB (250 A / 800 V / 3P, 2 x 17 pcs)	
Output		
Rated Output Voltage	10 kV, 11 kV, 12 kV, 15 kV, 20 kV, 22 kV, 30 kV, 33 kV, 35 kV <sup>2</sup>	12.47 kV, 13.8 kV, 23 kV, 23 kV, 33 kV, 34.5 kV <sup>2</sup>
Frequency	50 Hz	60 Hz
Transformer Type	Oil-immersed, Conservator Type	
Transformer Cooling Type	ONAN	
Transformer Tappings	± 2 x 2.5%	
Transformer Oil Type	Mineral Oil (PCB Free)	
Transformer Vector Group	Dy11-y11	
Transformer Min. Peak Efficiency Index	In Accordance with EN 50588-1	
RMU Type	SF <sub>6</sub> Gas Insulated	
RMU Transformer Protection Unit	MV Vacuum Circuit Breaker Unit	
RMU Cable Incoming / Outgoing Unit	Direct Cable Unit or Cable Load Break Switch Unit	
Auxiliary Transformer	Dry Type Transformer, 5 kVA, Dyn11	
Output Voltage of Auxiliary Transformer	400 / 230 Vac or 220 / 127 Vac	
Protection		
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz	
Protection Degree of MV & LV Room	IP 54	
Internal Arcing Fault Classification of STS	IAC A 20 kA 1s	
MV Relay Protection	50/51, 50N/51N	
LV Overvoltage Protection	Type I+II	
Anti-rodent Protection	C5 Medium in accordance with ISO 12944	
Features		
2 kVA UPS	Optional <sup>3</sup>	
MV Surge Arrester for Transformer	Optional <sup>3</sup>	
General		
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20' HC Container)	
Weight	< 22 t	
Operating Temperature Range	-25°C ~ 60°C <sup>4</sup> (-13°F ~ 140°F)	
Relative Humidity	0% ~ 95%	
Max. Operating Altitude	1,000 m <sup>5</sup>	1,500 m <sup>5</sup>
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite	
LV & MV Room Cooling	Smart Cooling without Air-across for Higher Availability	
Communication	Modbus-RTU, Preconfigured with Smartlogger3000B	
Applicable Standards	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1	

1 - More detailed AC power of STS, please refer to the de-rating curve.

2 - Rated output voltage from 10 kV to 35 kV, more available upon request.

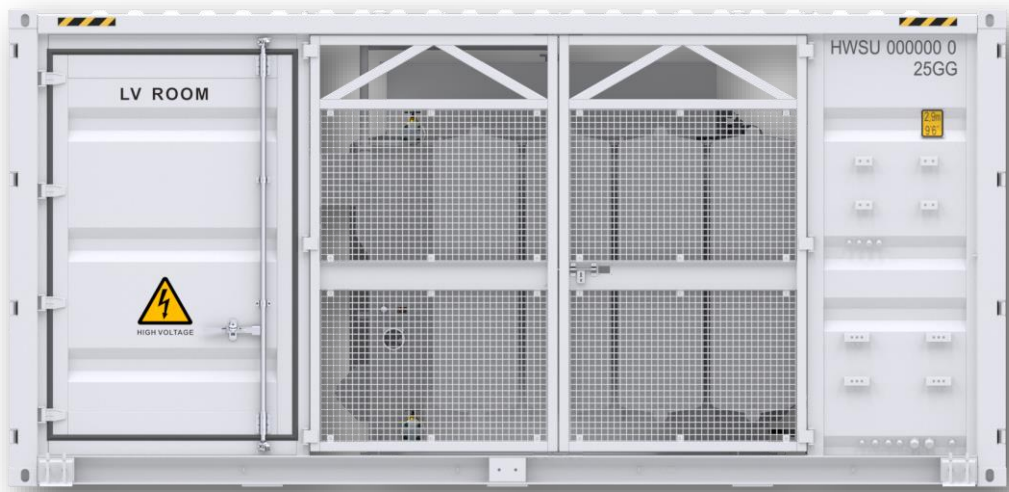
3 - Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4 -When ambient temperature ≥55°C, awning shall be equipped for STS on site by customer.

5- For higher operating altitude, pls consult with Huawei.

# STS-3000K-H1

## Smart Transformer Station



### Simple

Prefabricated and Pre-tested, No Internal Cabling Needed Onsite  
Compact 20' HC Container Design for Easy Transportation



### Efficient

High Efficiency Transformer for Higher Yields  
Lower Self-consumption for Higher Yields



### Smart

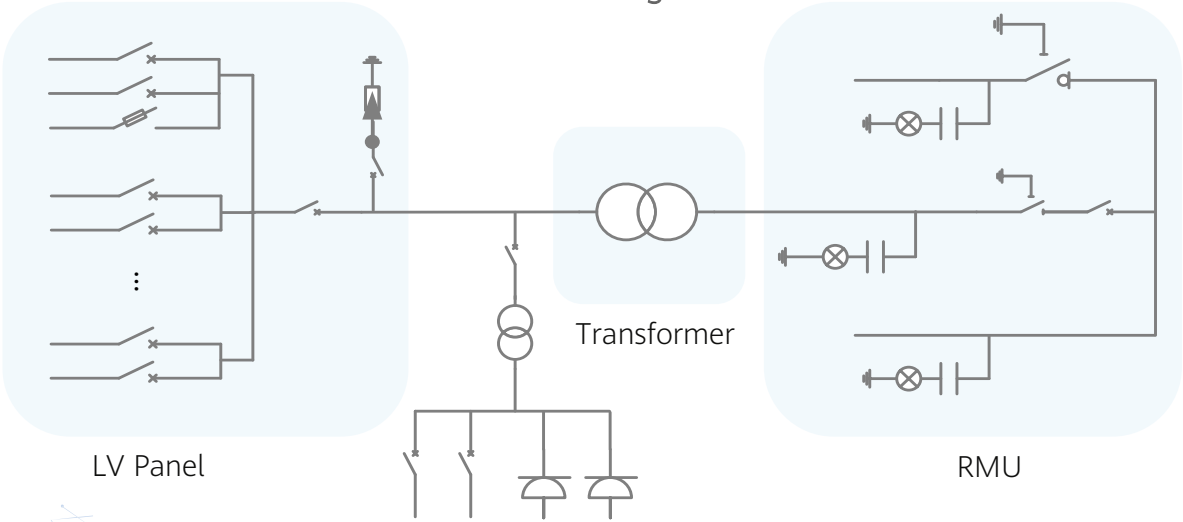
Real-time Monitoring of Transformer, LV Panel and RMU  
High Precision Sensor of LV Electricity Parameters  
Remote Control of ACB and MV Circuit Breaker



### Reliable

Robust Design against Harsh Environments  
Optimal Cooling Design for High Availability and Easy O&M  
Comprehensive Tests from Components, Device to Solution

### Schematic Diagram



# Technical Specifications

Input		
Available Inverters / PCS	SUN2000-200KTL / SUN2000-215KTL / SUN2000-185KTL / LUNA2000-200KTL	
Maximum LV AC Inputs	17	
AC Power	3,400 kVA @40°C <sup>1</sup>	
Rated Input Voltage	800 V	
LV Main Switches	ACB (2,900 A / 800 V / 3P, 1 pcs), MCCB (250 A / 800 V / 3P, 17 pcs)	
Output		
Rated Output Voltage	10 kV, 11 kV, 12 kV, 15 kV, 20 kV, 22 kV, 30 kV, 33 kV, 35 kV <sup>2</sup>	12.47 kV, 13.8 kV, 23 kV, 33 kV, 34.5 kV <sup>2</sup>
Frequency	50 Hz	60 Hz
Transformer Type	Oil-immersed, Conservator Type	
Transformer Cooling Type	ONAN	
Transformer Tappings	± 2 x 2.5%	
Transformer Oil Type	Mineral Oil (PCB Free)	
Transformer Vector Group	Dy11	
Transformer Min. Peak Efficiency Index	In Accordance with EN 50588-1	
RMU Type	SF <sub>6</sub> Gas Insulated	
RMU Transformer Protection Unit	MV Vacuum Circuit Breaker Unit	
RMU Cable Incoming / Outgoing Unit	Direct Cable Unit or Cable Load Break Switch Unit	
Auxiliary Transformer	Dry Type Transformer, 5 kVA, Dyn11	
Output Voltage of Auxiliary Transformer	400 / 230 Vac or 220 / 127 Vac	
Protection		
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz	
Protection Degree of MV & LV Room	IP 54	
Internal Arcing Fault Classification of STS	IAC A 20 kA 1s	
MV Relay Protection	50/51, 50N/51N	
LV Overvoltage Protection	Type I+II	
Anti-rodent Protection	C5 Medium in accordance with ISO 12944	
Features		
2 kVA UPS	Optional <sup>3</sup>	
MV Surge Arrester for Transformer	Optional <sup>3</sup>	
General		
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20' HC Container)	
Weight	< 15 t	
Operating Temperature Range	-25°C ~ 60°C <sup>4</sup> (-13°F ~ 140°F)	
Relative Humidity	0% ~ 95%	
Max. Operating Altitude	1,000 m <sup>5</sup>	1,500 m <sup>5</sup>
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite	
LV & MV Room Cooling	Smart Cooling without Air-across for Higher Availability	
Communication	Modbus-RTU, Preconfigured with Smartlogger3000B	
Applicable Standards	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1	

1 - More detailed AC power of STS, please refer to the de-rating curve.

2 - Rated output voltage from 10 kV to 35 kV, more available upon request.

3 - Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4 -When ambient temperature ≥55°C, awning shall be equipped for STS on site by customer.

5- For higher operating altitude, pls consult with Huawei.

# DTS-200K-D0

## Distribution Transformer



Electrical	
AC Power	210 kVA@ 400 Vac
Rated Input Voltage	800 Vac
Max. Input Current at Nominal Voltage	151.6 A
Rated Output Voltage	400V (3P) /110V (1P)
Rated Frequency	50 / 60 Hz
Transformer Type	Dry Type
Transformer Cooling Type	AF
Transformer Vectoring Group	Dyn11yn11
Transformer Tappings	± 2 x 2.5%
Transformer Winding	Al
Transformer Insulation Class	H
Transformer Impedance (at 145°C)	4% (±10%) @50Hz / 4.8% (±10%) @60Hz
Transformer No-load Loss	≤ 500 W (+15%)
Transformer Load Loss	≤ 3,044 W (+15%)
Cablings	
Number of outputs	Five MCCBs
Cabling mode	Routed in and out from the bottom
Protection	
Protection Degree	IP 55
LV SPD	Type II
Transformer Protection	Transformer Temperature Protection
Environment	
Operating Temperature Range	- 25°C ~ 55°C (-13°F ~ 131°F)
Relative Humidity	0% ~ 95%
Max. Operating Altitude	1000 m above 50°C and 4000 m below 50°C
General	
Dimensions (W x H x D)	900 x 2,100 x 1,200 mm
Weight	< 1.3 t
Communication Mode	Dry Contacts
Cooling Type	Smart Cooling without Air-across for Higher Availability
Applicable Standards	IEC 60076, IEC 61439

# SmartACU2000D

## Smart Array Controller



With SmartPID2000 Module



Without SmartPID2000 Module



### Smart

Support one-click commissioning  
Patented anti-PID module



### Simple

SmartPID2000 & Smartlogger3000B  
pre-installed with multiple interfaces



### Reliable

Industrial-level application  
and high reliability

Technical Specifications	SmartACU2000D-D-06	SmartACU2000D-D-00	SmartACU2000D-D-02	SmartACU2000D-D-01	SmartACU2000D-D-03
Configuration					
SmartLogger	SmartLogger3000B x 1				
SmartModule1000A	Optional				Standard with 1
Ethernet	14	1 or 3 (with a SmartModule1000A) or 6 (with a SmartModule1000A and a five-port switch)			
RS485	COM x 6, 1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 115,200 bps				
Optical Ethernet	SFP x 10, 100 / 1,000 Mbps	SFP x 2, 100 / 1,000 Mbps			
Number of MBUS Module <sup>1</sup>	0	1	2	1	2
Number of SmartPID2000 Module	0	0	0	1	2
Environment					
Operating Temperature Range	-40°C ~ 60°C				
Relative Humidity	4% ~ 100%				
Max. Operating Altitude	4,000 m				
Electrical					
AC Input Voltage for Cabinet	100 V ~ 240 V, L / N (L)+ PE				
AC Input Voltage for MBUS	380 V ~ 800 V, 3Ph				
AC Input Voltage for PID	380 V ~ 800 V, 3Ph + FE (Functional Earth)				
AC Input Frequency	50 Hz / 60 Hz				
Power Supply	Standard: 12 V DC, Optional: 24 V DC <sup>2</sup>				
Mechanical					
Cable Entries	Bottom in & out				
Maintenance	Front				
Dimensions (W x H x D)	640 x 770 x 315 mm			880 x 770 x 369 mm	
Weight	32 kg	29 kg	32 kg	49 kg	61 kg
Protection Degree	IP65				
Installation Options	Wall Mounting, Rack Mounting, Pole Mounting				

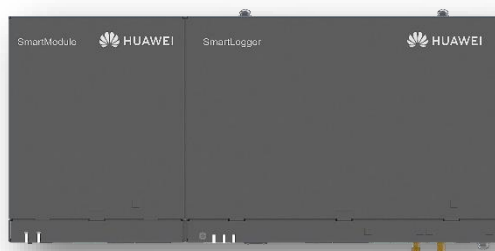
<sup>1</sup> - Compatible with communication mode of PLC (Power Line Communication).

<sup>2</sup> - 24V DC power supply is optional to power devices that require 24Vdc input and output.

# SmartLogger3000B



Without SmartModule1000A



With SmartModule1000A



## Smart

Connecting up to 150 inverters,  
One-click commissioning



## Simple

Deployment wizard allowed, including  
parameters configuration, devices connection



## Reliable

Safety improvement  
by lightning protection module

Technical Specifications	SmartLogger3000B		SmartLogger3000B with SmartModule1000A
Device Management			
Max. Number of Manageable Devices	200		
Max. Number of Manageable Inverters	150		
Communication Interface			
WAN	WAN x 1, 10 / 100 / 1,000 Mbps		
LAN	LAN x 1, 10 / 100 / 1,000 Mbps	LAN x 3, 10 / 100 / 1,000 Mbps	
Optical Ethernet	SFP x 2, 100 / 1,000 Mbps		
MBUS	MBUS x 1, 115.2 kbps, Compatible with PLC		
RS485	COM x 3, 1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 115,200 bps	COM x 6, 1,200 / 2,400 / 4,800 / 9,600 / 19,200 / 115,200 bps	
Digital / Analog Input / Output	DI x 4, DO x 2, AI x 4	DI x 8, DO x 2, AI x 7	
PT100 / PT1000	0	2	
Active DO	12 V, 100 mA (connection with relay, sensor)		
Communication Protocol			
Ethernet	Modbus-TCP, IEC 60870-5-104		
RS485	Modbus-RTU, IEC 60870-5-103 (standard), DL / T645		
Interaction			
LED	LED Indicator x 3 – RUN, ALM, 4G	LED Indicator x 5 – RUN, ALM, 4G (Smartlogger3000B) & RUN, ALM (SmarModule1000A)	
WEB	Embedded Web		
USB	USB 2.0 x 1		
APP	Communication by WLAN for commissioning		
Environment			
Operating Temperature Range	-40°C ~ 60°C		
Storage Temperature Range	-40°C ~ 70°C		
Relative Humidity (Non-condensing)	5% ~ 95%		
Max. Operating Altitude	4,000 m		
Electrical			
Power Adapter	AC input: 100 V ~ 240 V, 50 Hz / 60 Hz; DC output: 12 V, 2 A		
DC Power Supply	24 V, 0.8 A		
Power Consumption	Typical 9 W, Max. 15 W	Typical 10 W, Max. 18 W	
Mechanical			
Dimensions (W x H x D, without mounting ears)	225 x 160 x 44 mm	350 x 160 x 44 mm	
Weight	2 kg	3 kg	
Protection Degree	IP20		
Installation Options	Wall Mounting, DIN Rail Mounting, Tabletop Mounting		

# SmartPID2000 Module

## Inside Smart Array Controller



The SmartPID2000 Module is installed in the SmartACU2000D cabinet to reduce the negative effect of the Potential Induced Degradation (PID), and support 1000 V / 1100 V / 1500 V DC system.



### Smart

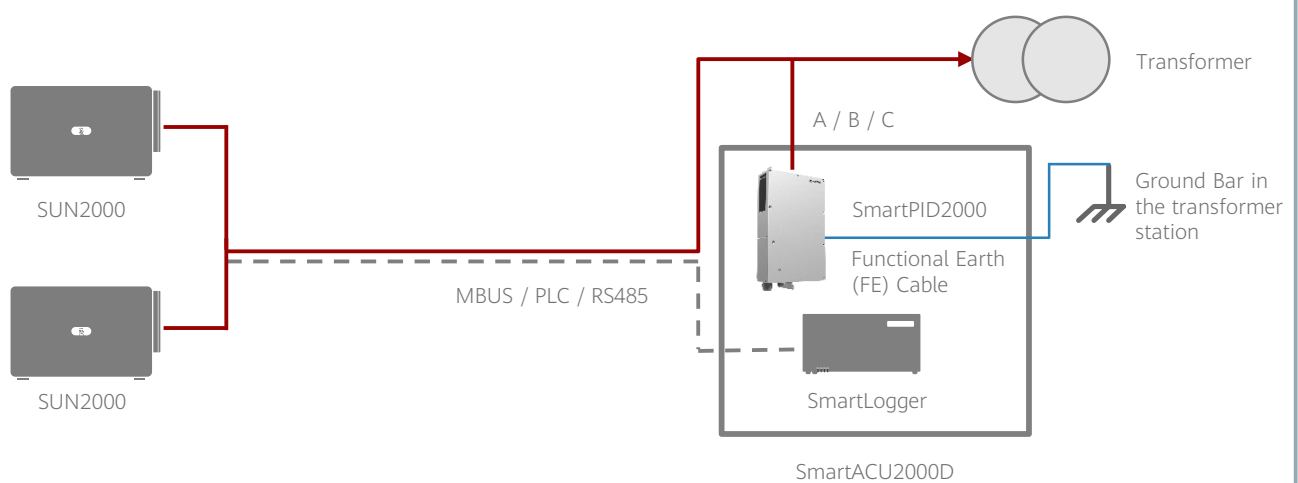
Data read and software upgrade through USB or the embedded Web



### Reliable

Protection degree of IP65

## SmartPID2000 Solution Diagram

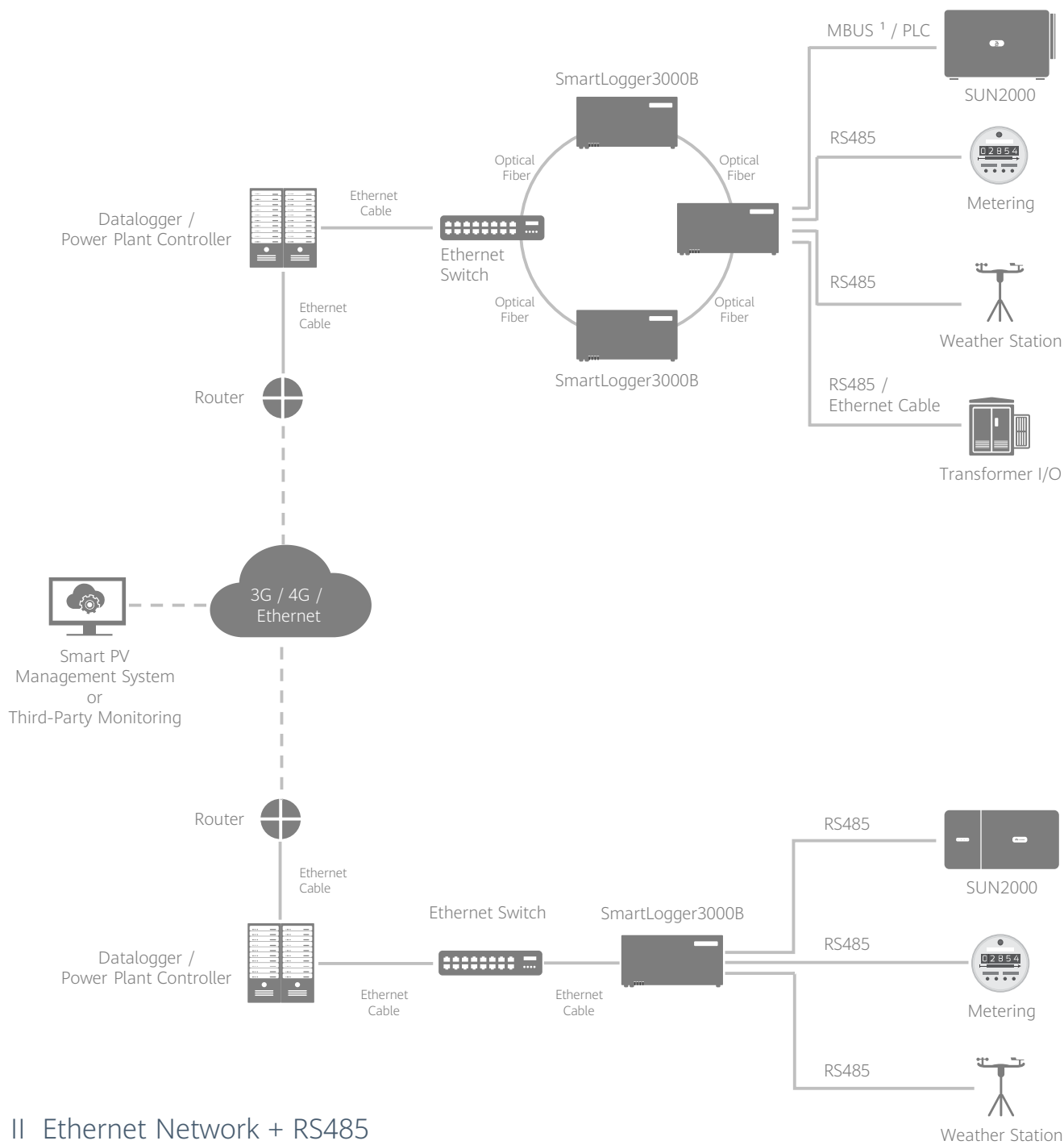


#### Note:

- 1 - The Anti-PID solution could ONLY be deployed in utility installations which are normally connected to the medium voltage (MV) grid running WITHOUT neutral line.
- 2 - The Anti-PID module must work with Huawei SmartLoggers and Huawei inverters.

# Network Applications

## I Optical Fiber Ring Network + MBUS / PLC



1 - Compatible with communication mode of PLC (Power Line Communication).

# Smart PV Plant Management System



## Refined

Multi-level management, from plant-level to string/battery cell-level



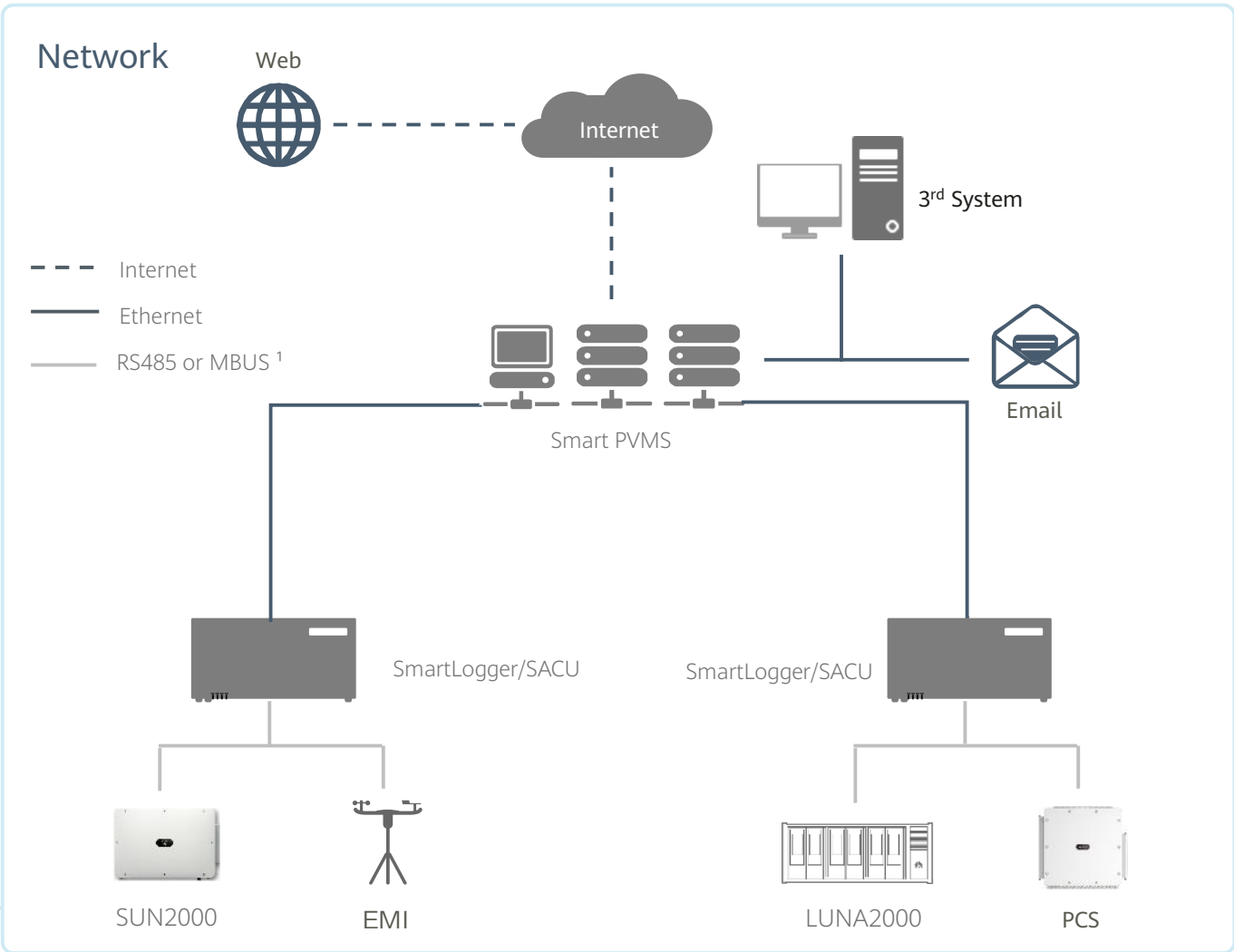
## Efficient

Quick location of abnormal strings  
Fault alarms via E-mail



## Simple

Quick Construction  
3D Visualized Monitoring of Battery Pack



<sup>1</sup> - Compatible with communication mode of PLC (Power Line Communication).

# Smart PVMS Server Standard Version



10000 Equivalent devices supported



Software pre-installation, saving installation time by 70%



Leverages patented DEMA, better energy efficiency

Technical Specification	FusionServer 2288X V5
Max. Devices Supported	10,000 equivalent devices
Form Factor	2U rack server
Processors	2 * Intel Xeon Silver 4208 (2.1 GHz / 8-Core / 11 MB)
Memory	2 * 32 GB DDR4 RDIMM, ECC
Internal Storage	2 * 1.2 TB, SAS 2.5" HDD, 10,000 RPM
Operating System	Euler OS
Database	Gauss DB
RAID Support	RAID 1
Network Ports	Two PCIe NICs, each supporting four GE electrical ports
Power Supply Units	2 hot-swappable PSUs, 1+1 redundancy
Power Supply	Input: 100-240 VAC / 11~5.5 A ; 240 VDC / 5 A
Fan Modules	4 hot-swappable counter-rotating fan modules, N+1 redundancy
Operating Temperature	5°C ~ 40°C
Dimensions (H x W x D)	86.1 x 447 x 748 mm
Weight	29 kg
Certification	CE, UL, FCC, CCC, RoHS

# Smart PVMS Server Premium Version



30000 devices supported



Software pre-installation,  
saving installation time by 70%

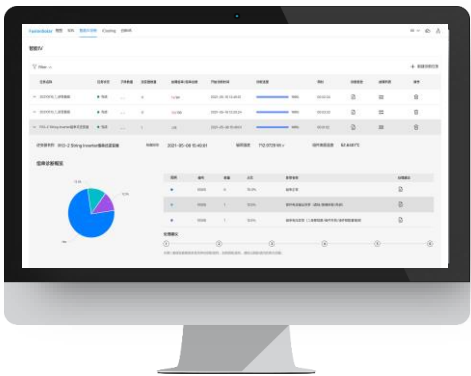


Leverages patented DGMT,  
better energy efficiency

Technical Specification	FusionServer Pro 2288X V5
Max. Devices Supported	30,000 equivalent devices
Form Factor	2U rack server
Processors	2 * Intel Xeon Gold 5218 (2.3 GHz / 16-Core / 22 MB)
Memory	4 * 32 GB DDR4 RDIMM, ECC
Internal Storage	2 * 1.2 TB + 8 * 1.8 TB, SAS 2.5" HDD, 10,000 RPM
Operating System	Euler OS
Database	Gauss DB
RAID Support	RAID 1, RAID 10
Network Ports	Two PCIe NICs, each supporting four GE electrical ports
Power Supply Units	2 hot-swappable PSUs, 1+1 redundancy
Power Supply	Input: 100-240 VAC / 11~5.5 A ; 240 VDC / 5 A
Fan Modules	4 hot-swappable counter-rotating fan modules, N+1 redundancy
Operating Temperature	5°C ~ 40°C
Dimensions (H x W x D)	86.1 x 447 x 748 mm
Weight	30 kg
Certification	CE, UL, FCC, CCC, RoHS

# Smart I-V Curve Diagnosis

Smart I-V Curve Diagnosis is able to carry out online I-V curve analysis on entire strings with advanced diagnosis algorithm. The scanning would help to find out and identify the strings with low performance or malfunction, which would help to achieve proactive maintenance, higher O&M efficiency and lower operation cost.



## Smart

Support plant-level, array-level and inverter-level analysis and diagnosis

Support scheduled scanning and proactive presentation of reports

Automatically identify different failure types and provide recovery suggestion

Support export of ROI estimation reports and assist in accurate O&M

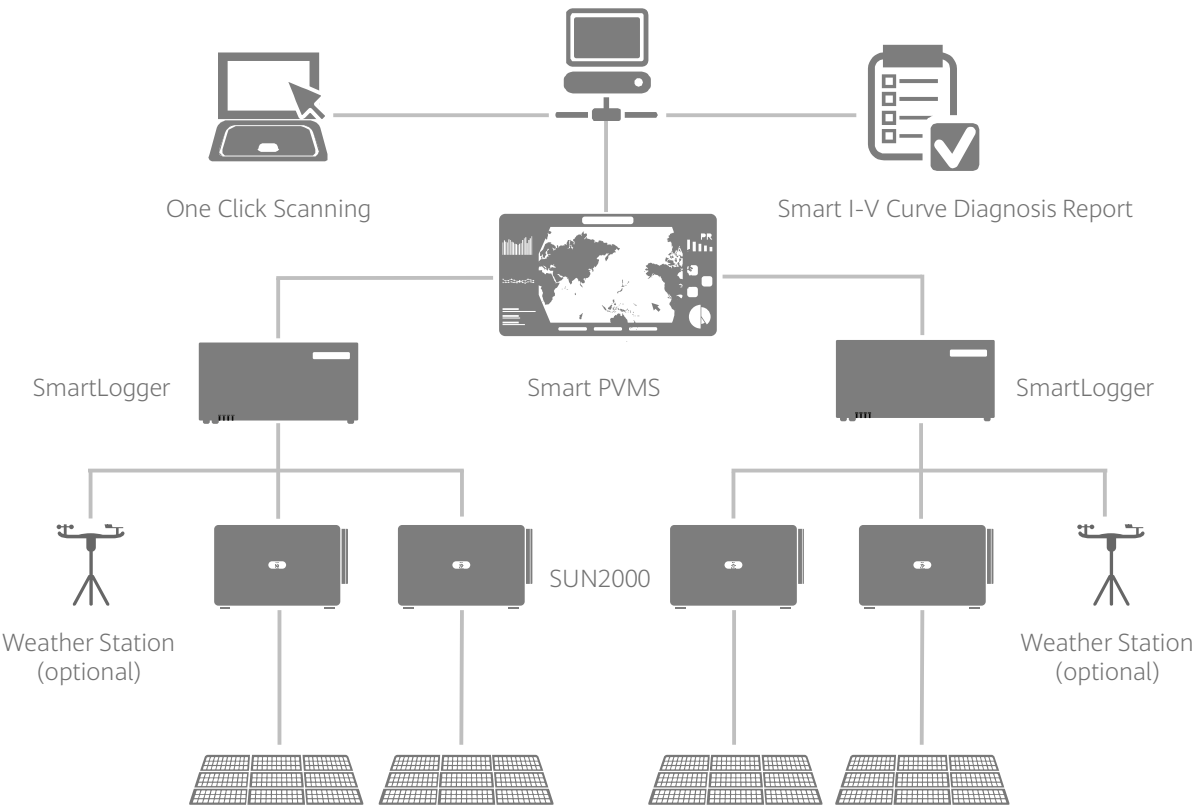


## Efficient

One-click scanning without onsite experts or equipment

Completing online I-V curve scanning on all strings of 100 MW plant within 20 minutes

## Network Structure



# Smart I-V Curve Diagnosis

Technical Specifications	
Smart String Inverter	SUN2000-330KTL-H1/H2, SUN2000-215KTL-H0, SUN2000-215KTL-H3, SUN2000-185KTL-H1 ...
Data Logger	SmartLogger2000, SmartLogger3000
Management System	Smart PVMS
Scanning Time	< 1s per string
Sampling Points per I-V Curve	128
Voltage Accuracy	0.5%rdg. + 1dgt. (rdg.>5, dgt.= 0.3)
Current Accuracy	0.5%rdg. + 2dgt. (rdg.>0.3, dgt.= 0.006)

Smart I-V Curve Diagnosis Verified by TUV

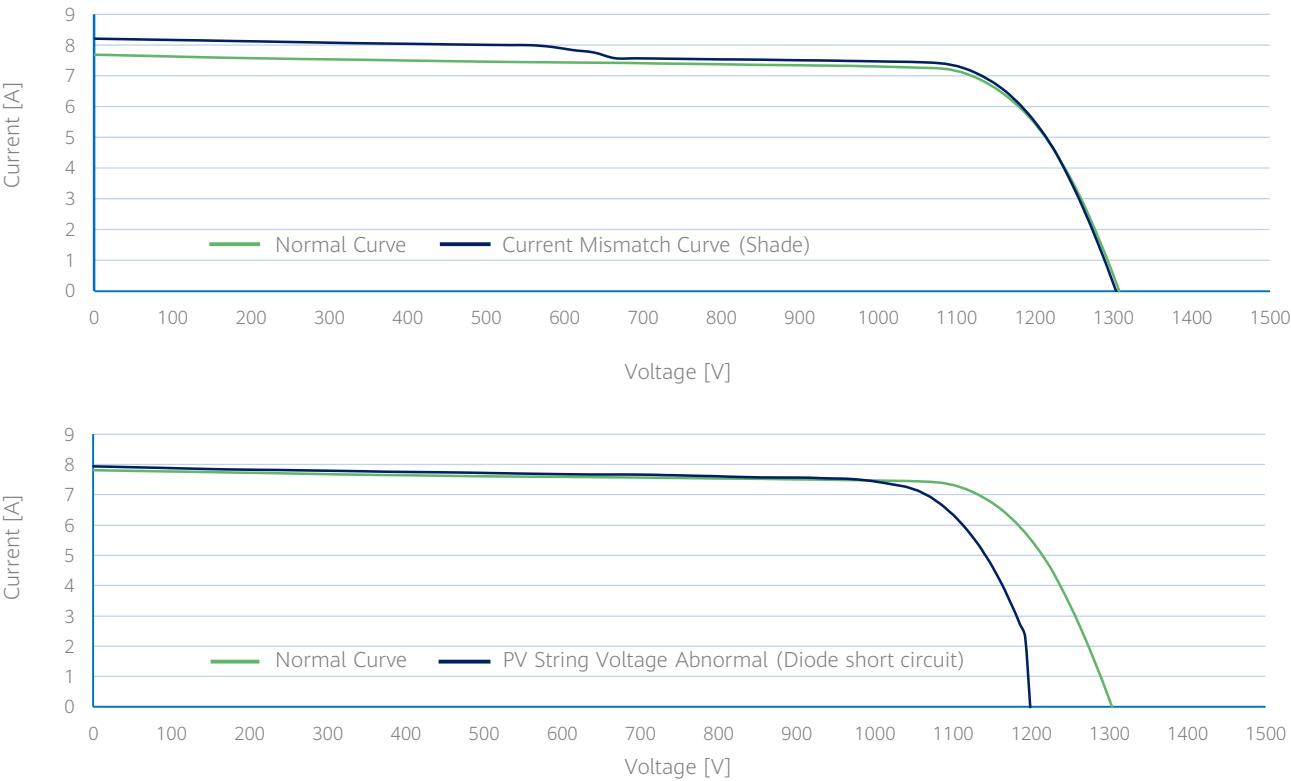
String-level Management

Real time monitoring

Smart I-V Curve Diagnosis

Fault Analysis

## String I-V Curve Comparison







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