About Huawei



Huawei is a leading global information and communications technology (ICT) solutions provider. We provide telecom carriers, enterprises, and consumers with competitive ICT solutions, products, and services. We work in more than 170 countries and regions, serving over one-third of the world's population. Among our 180,000 employees, there are more than 160 different nationalities with a localization rate of almost 70%. Huawei's vision and mission is to bring digital to every person, home and organization for a fully connected, intelligent world. We maintained our strategic focus, intensified efforts in improving operations quality, and created value for our customers. Our 2017 annual revenue was 92.549 billion USD.





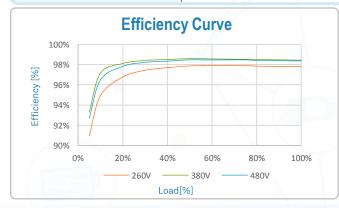
Smart Energy Center

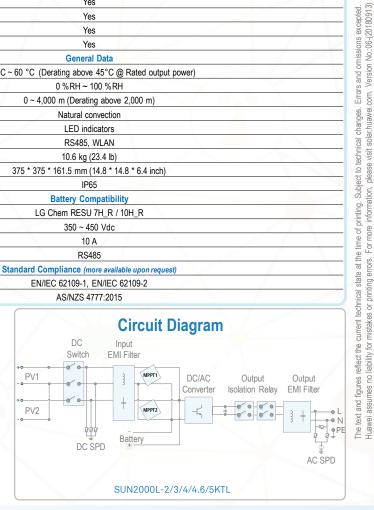


SUN2000L-2/3/4/4.6/5KTL



Technical Specification	SUN2000L-2KTL	SUN2000L-3KTL	SUN2000L-4KTL	SUN2000L-4.6KTL	SUN2000L-5KTL
			Efficiency		
Max. efficiency	98.4 %	98.5 %	98.6 %	98.6 %	98.6 %
European weighted efficiency	97.0 %	97.6 %	97.9 %	98.0 %	98.0 %
			Input		
Recommended max. PV power	3,000 Wp	4,500 Wp	6,000 Wp	6,900 Wp	7,500 Wp
Max. input voltage 1			600 V / 495 V ¹		
Operating voltage range ¹			90 V ~ 600 V / 90 V ~ 495 V	1	
Start-up voltage			120 V		
Full power MPPT voltage range	120 V ~ 480 V	160 V ~ 480 V	210 V ~ 480 V	260 V ~ 480 V	260 V ~ 480 V
Rated input voltage			380 V		/
Max. input current per MPPT	11 A				
Max. short-circuit current			15 A		100
Number of MPP trackers			2		100
Max. number of inputs per MPPT			1		7 / 1
			Output		
Grid connection			Single phase		7 1
Rated output power	2,000 W	3,000 W	4,000 W	4,600 W	4,990 W
Maximum apparent power	2,200 VA	3,300 VA	4,400 VA	4,990 VA	4,990 VA
Rated output voltage			220 V / 230 V / 240 V		
Rated AC grid frequency	50 Hz / 60 Hz				
Maximum output current	10 A	15 A	20 A	21.7 A	21.7 A
Adjustable power factor		1	0.8 leading 0.8 lagging		17
Max. total harmonic distortion			≤ 3 %		
			Protection		,
Anti-islanding protection			Yes	1 1	77.3
DC reverse polarity protection	Yes				
Insulation monitoring	Yes				
DC lightening protection	Yes				
AC lightening protection		Yes			
Residual current monitoring			Yes	7	
AC overcurrent protection			Yes	7	
AC short-circuit protection			Yes		
AC over-voltage protection	Yes				
Over-heat protection			Yes		/
			General Data		
Operating temperature range		-30 °C ~ 60 °C		ated output power)	4//
Relative operating humidity	-30 °C ~ 60 °C (Derating above 45°C @ Rated output power) 0 %RH ~ 100 %RH				
Operating altitude	0 ~ 4,000 m (Derating above 2,000 m)				
Cooling	Natural convection				
Display		LED indicators			
Communication	RS485, WLAN				
Weight (incl. mounting bracket)	10.6 kg (23.4 lb)				
Dimension (incl. mounting bracket)	375 * 375 * 161.5 mm (14.8 * 14.8 * 6.4 inch)				
Degree of protection		// 0.0	IP65		
Dogioo oi protoction		-// \	Battery Compatibility		
Battery		77 \	LG Chem RESU 7H_R / 10H	R	
Voltage range		350 ~ 450 Vdc			
Max. current	1		10 A		7//
	-		RS485		-+
Communication		Standard		upon roquoetl	7
Safaty			Compliance (more available of the control of the co		
Safety Crid connection standards	EN/IEC 62109-1, EN/IEC 62109-2				
Grid connection standards	AS/NZS 4777:2015				





^{*1.} Only applicable for PV string. The maximum input voltage and operating voltage upper limit will be reduced to 495 V when inverter connects and works with LG battery.

Smart PV Optimiser





M Higher Revenue

- Max. efficiency 99.5%, weighted efficiency 99.0%
- Allows more panels on each roof to achieve higher system yields

Simple & Easy

- Supports installation in shade prone areas and in different directions
- Quick frame mount at warehouse, less rooftop installation time
- Supports remote module-level monitoring with Smart PV Safety Box
- · Communication through DC power line

Safe & Reliable

- IP68, support outdoor application
- Module-level shutdown capability to secure people and assets safety

Technical Specification	SUN2000P-375W		
	Input		
Rated input power	375 W		
Absolute maximum input voltage	80 V		
MPPT operating voltage range	10 - 80 V		
Max. input current	12 A		
Max. efficiency	99.5 %		
Weighted efficiency	99.0 %		
Overvoltage category			
	Output		
Max. output voltage	80 V		
Max. output current	10 A		
Output bypass	Yes		
	Standard Compliance		
Safety	IEC62109-1 (class II safety)		
RoHS	Yes		
	General Specification		
Maximum allowed system voltage	1,000 V		
Communication	PLC		
Dimensions (W * H * D)	125 * 85 * 25.5 mm (4.9 * 3.3 * 1.0 inch)		
Weight (including cables)	0.7 kg (1.5 lb)		
Installation part	PV module frame / Aluminum extrusion profile (optional)		
Input connector	MC4		
Output connector	MC4		
Output wire length	1.2 m (3.9 ft.)		
Operating temperature / humidity range	-40 °C ~ 85 °C / 0 ~ 100 %		
Protection rating	IP68		

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Smart PV Safety Box



Simple & Easy

- Communicate with optimizers through DC power line
- Support module-level real-time monitoring & management

Safe & Reliable

- Module-level shutdown capability to secure people and assets safety
- IP65, support outdoor application

Technical Specification	SmartPSB2000L		
	DC Input		
Maximum input voltage	600 V		
Number of inputs	2		
Maximum input current per input	15 A		
1	DC Output		
Maximum output voltage	600 V		
Number of outputs	2		
Maximum output current per output	15 A		
	Features		
Module-level remote management	Yes		
Onsite master module shutdown	Yes		
	General Specification		
Dimensions (W * H * D)	149 * 149 * 49 mm (5.9 * 5.9 * 1.9 inch)		
Weight	0.8 kg (1.8 lb)		
Display	LED		
Communication	PLC, RS485		
Input type	Ampheno HH4		
Operating temperature range	-30 °C ~ 55 °C		
Protection rating	IP65		

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Smart Power Sensor





Accurate

Measurement accuracy: class 1

■ Simple & Easy

- Standard din-rail mounting of DIN 35 mm
- Small volume, 1P2W 36 mm, 3P4W 72 mm
- LCD display, convenient for users to set and check
- Coupling connection for installation
- CT and RS485 cables included in accessories

Energy-efficient

• Overall power consumption ≤ 1 W

Technical Specification	DDSU666-H	DTSU666-H		
	Gene	ral Specification		
Dimension (W * H * D)	36 * 100 * 65.5 mm (1.4 * 3.9 * 2.6 inch) 72 * 100 * 65.5 mm (2.8 * 3.9 * 2.6 inch)			
Mounting type	DIN35 Rail			
Weight (including cables)	1.2 kg (2.6 lb)	1.5 kg (3.3 lb)		
	Po	ower Supply		
Power grid type	1P2W	3P4W		
Input power (phase voltage)	176 Vac ~ 288 Vac			
Power consumption	≤ 0.8 W	≤ 1 W		
	Meas	surement Range		
Line voltage	1	304 Vac ~ 499 Vac		
Phase voltage	176 Vac ~ 288 Vac			
Current	0 ~ 100 A			
	Measu	rement Accuracy		
Voltage	±0.5%			
Current / Power / Energy	±1%			
Frequency		\pm 0.01 Hz		
	Co	ommunication		
Interface		RS485		
Baud rate	// \	9600 bps		
Communication protocol	Modbus-RTU			
		Environment		
Operating temperature range	-25 °C ~ 60 °C			
Storage temperature range	-40 °C ~ 70 °C			
Operating humidity range	5 %RH ~ 95 %RH (non-condensing)			
		Others		
	RS485 Cable (10 m / 33 ft.)			
Accessories	1 CT 100 A / 40 mA (6 m / 19 ft.)	3 CT 100 A / 40 mA (6 m / 19 ft.)		

FusionSolar Smart PV Management System





Simple & Swift

- Simple commissioning of all local components by Local APP
- One-click commissioning by import saved configuration

Convenient & Reliable

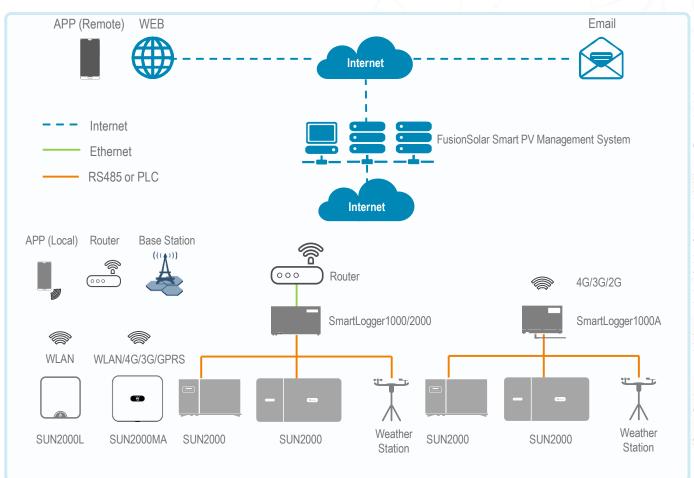
- Clear illustration on your home energy flow, indicating your home energy generation and self-consumption
- Real-time data on PV module*, inverter and plant
- Access your historical data at anytime from anywhere
- Data back-up for all plant performance data

Improved O&M Experience

- Support module-level physical layout display
- Module-level fault detection & performance management
- Proactive O&M via smart I-V curve diagnosis and dispersion rate analysis
- Remote O&M to issue the ticket and finish fault recovery

*Full optimizer solution with Smart PV Safety Box required

Network Structure



FusionSolar Smart PV Management System





WEB

- Overall management on all plants, including yields, power output, alarms and O&M statistics
- Real-time plant-, inverter- and panel-level data collection, access your plant at anytime from anywhere
- Online diagnosis to find out low performance device
- Remote O&M, one-click ticket issuing, simple and efficient for fault recovery



APP

- Swift commissioning for all local components
- Installer & end-user account available
- Real-time status on each plant and module*
- Mobile O&M for fault recovery

*Full optimizer solution with Smart PV Safety Box required

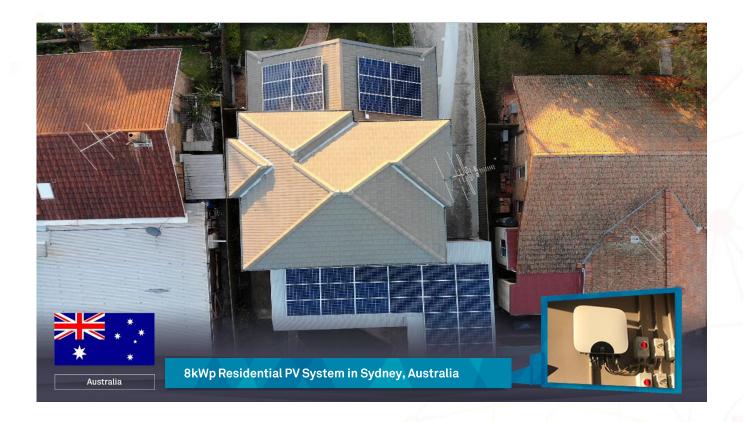
Feature List		WEB	APP
	Swift Installation & Registration		
Basic Feature	Data Collection	•	
	Dashboard	•	•
	Energy Flow	•	•
	Energy Generation & Consumption	•	
	Device Management	•	•
	Report Management	•	•
	Alarm Management	•	•
	System Configuration	•	
Advanced Feature	Intelligent O&M	0	
	Mobile O&M	0	0
	Proactive Diagnosis	0	0
	Smart I-V Curve Diagnosis	0	0

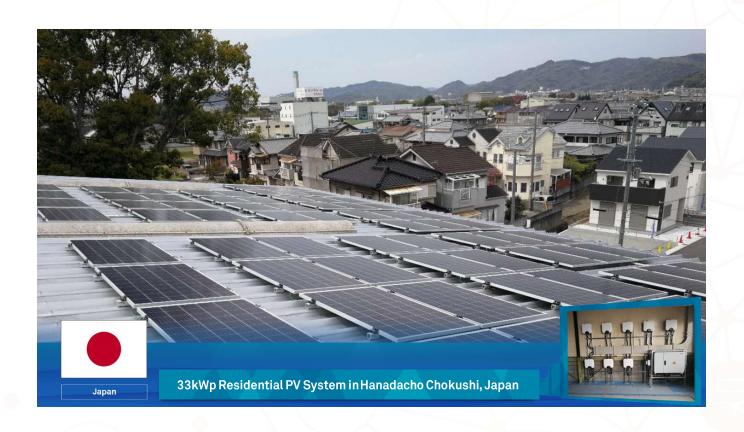
Basic



Optional













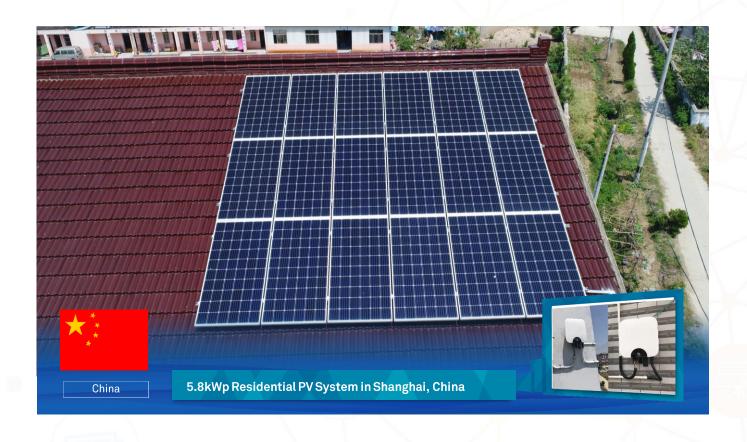


















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