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

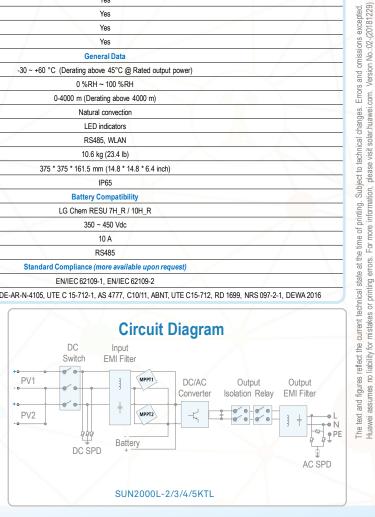


SUN2000L-2/3/4/5KTL



Technical Specification	SUN2000L-2KTL	SUN2000L-3KTL	SUN2000L-4KTL	SUN2000L-5K	
		E	fficiency		
Max. efficiency	98.4 %	98.5 %	98.6 %	98.6 %	
European weighted efficiency	97.0 %	97.6 %	97.9 %	98.0 %	
			Input		
Recommended max. PV power	3,000 Wp	4,500 Wp	6,000 Wp	7,500 Wp	
Max. input voltage		495 V ¹		495 V ¹	
Operating voltage range 1	90 V~ 500 V /	90 V~ 495 V ¹		90 V~ 600 V / 90 V~ 495 V ¹	
Start-up voltage		T	120 V	T	
Full power MPPT voltage range	120 V ~ 480 V	160 V ~ 480 V	210 V ~ 480 V	260 V ~ 480 \	
Rated input voltage			380 V		
Max. input current per MPPT			11 A		
Max. short-circuit current			15 A	///	
Number of MPP trackers			2	-/-	
Max. number of inputs per MPPT			1		
Orid companies			Output		
Grid connection	2,000 W		ngle phase	E 000 W	
Rated output power	2,000 W	3,000 W	4,000 W	5,000 W	
Maximum apparent power	2,200 VA	3,300 VA	4,400 VA	5,500 VA	
Rated output voltage			/ 230 V / 240 V Hz / 60 Hz	\rightarrow	
Rated AC grid frequency	10 A	15 A	20 A	25 A	
Maximum output current Adjustable power factor	10 A			25 A	
Max. total harmonic distortion		0.0 leaui	ng 0.8 lagging ≤ 3 %		
wax. total narmonic distortion		D	rotection		
Anti-Islanding protection		<u>'</u>	Yes		
DC reverse polarity protection	Yes				
Insulation monitoring					
DC lightening protection	Yes Yes				
AC lightening protection			Yes		
Residual current monitoring			Yes		
AC overcurrent protection			Yes		
AC short-circuit protection			Yes		
AC over-voltage protection		/ \	Yes		
Over-heat protection		/ /	Yes		
		Ge	neral Data		
Operating temperature range		-30 ~ +60 °C (Derating at	pove 45°C @ Rated output power)	-1/	
Relative operating humidity	0 %RH ~ 100 %RH		7		
Operating altitude		0-4000 m (De	erating above 4000 m)	<u> </u>	
Cooling		Natu	ral convection		
Display		LE	D indicators		
Communication		RS	485, 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	//-		IP65		
	//	Battery	Compatibility		
Battery	//	LG Chem R	ESU 7H_R / 10H_R		
Voltage range		350) ~ 450 Vdc	1	
Max. current	11		10 A		
Communication			RS485		
		Standard Compliance	(more available upon request)	/	
Safety		EN/IEC 6210	9-1, EN/IEC 62109-2		





*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 Optimizer





Mil 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 %		
Overvoltage category	11		
	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 to 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

<u>.</u>			
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		
Remote auto module shutdown	Yes		
	General Specification		
Dimensions (H * W * 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	HH4		
Operating temperature range	-30 to 55 °C		
Protection rating	IP65		

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Smart Power Sensor





Accurate

Measurement accuracy > class 1 within full temperature range

■ 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	
-	Gei	neral Specification	
Dimension (H * W * D)	36 * 100 * 65.5mm (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)	
		Power Supply	
Power grid type	1P2W	3P4W	
Input power (phase voltage)	176 Vac ~ 288 Vac		
Power consumption	≤ 0.8W	≤ 1W	
	Me	asurement Range	
Line voltage	1	304 Vac ~ 499 Vac	
Phase voltage	1	76 Vac ~ 288 Vac	
Current	/	0 ~ 100A	
	Meas	surement Accuracy	
Voltage		±0.5%	
Current / Power / Energy		±1%	
Frequency	±0.01Hz		
	Co	ommunication	
Interface		RS485	
Baud rate	9,600 bps		
Communication protocol	// _	Modbus-RTU	
		Environment	
Operating temperature range		-25 °C ~ 60 °C	
Storage temperature range	-40 °C ~ 70 °C		
Operating humidity	5% ~ 95% (non-condensing)		
		Others	
	RS485 Cable (10m / 33 ft.)		
Accessories	1 CT 100A / 40mA (6m / 19 ft.)	3 CT 100A / 40mA (6m / 19 ft.)	

FusionHome-NetEco1000S





Smart

- Easy data access on mobile devices
- Proactive reports of yields and alarms

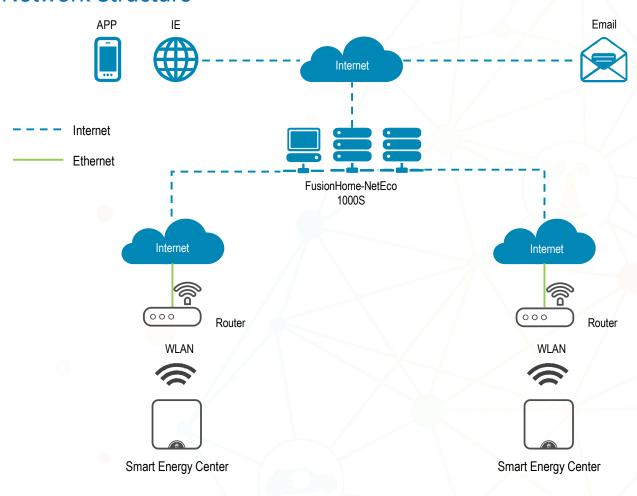
■ Simple

- Easy & simple to get started
- Fault alarms via E-mail

Stable

- Centralized management on all PV systems
- Up to 20 years data storage

Network Structure



FusionHome-NetEco1000S



Function	Submenu	Description
Monitor	Details	 Browse detailed and real-time device information, including alarms, key performance indicators and device status. Support remote inverter on & off control.
	Alarm	Collect, store, browse current alarms.
	Device List / Plant List	Show device / plant information and real-time status.
	Setting	Set device parameters, like device information, time zone, communication parameter, etc.
Historical Data	Alarm Log	Historical alarms can be inquired according to the time and severity.
	Performance Data	Query plant and device daily / monthly / yearly power.
Maintenance	Device Maintenance	 Browse the device operation log. Support device inspection & management. Support batch modification on device name.
System -	User Management	 According to different users, FusionHome-NetEco provides different log on authorities. Create users.
	Remote Notifications of Alarms and Reports	Through settings on the server and sending rules, the alarms and yield reports can be sent to user's email automatically.

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FusionHome Smart Energy Solution Reference







FusionHome Smart Energy Solution Reference



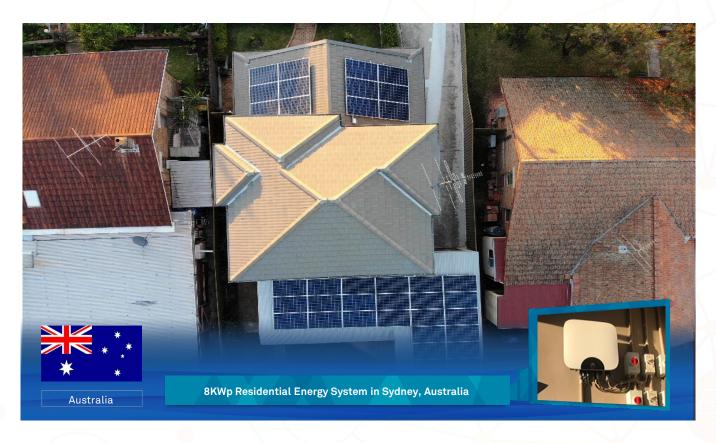




FusionHome Smart Energy Solution Reference













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