

FusionSolar

# Residential & Commercial Smart PV Solution

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Our 2017 annual revenue was 92.5 billion USD while first half year of 2018 revenue is 49.1 billion USD.



Employees

180,000 +

Research institutes /labs/centers





R&D Personnel







36



Countries

170+



Fortune Global 500



Global No.1

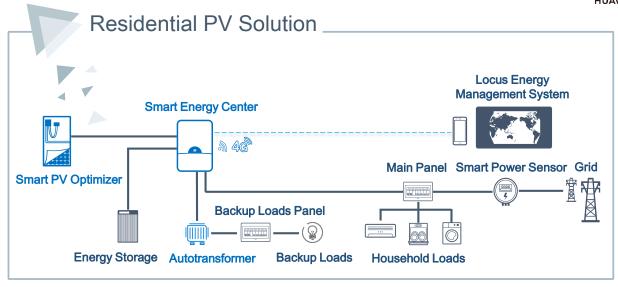
2015-2017 consecutive thee-year shipment of Huawel Smart PV product



75GW+

Global cumulative product shipment of Huawel Smart PV product





### **Installer Benefits**

All-in-One	Faster Installation	Install & Forget
Battery interface and backup power for all sizes	7.6kW 39.7 lb., easy installation by one technician	Proven product reliability with 75+ GW global shipment

### Homeowner Benefits

	Homeowner Benefits	
More Energy, Maximum Savings	Battery Ready, Secure Future	Visible Power, Easier Management
Module-level MPPT, up to 30% more energy	Specifically designed for the PV + Storage future	Real-time visibility for easy home energy management



# **Smart Energy Center**







Future Proof

Optimized for PV + Storage



**Higher Yields** 

CEC efficiency 99%



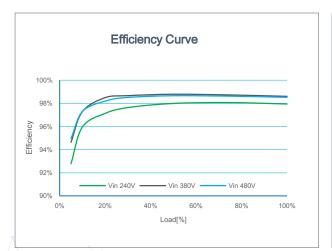
Simple & Easy

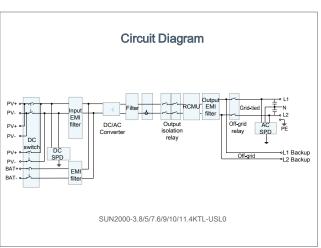
All-in-One design



Safe & Reliable

Compliant with NEC 2014 & 2017





## **Technical Specification**

Technical Specification	SUN2000-3.8KTL- USL0	SUN2000- 5KTL-USL0	SUN2000- 7.6KTL-USL0	SUN2000- 9KTL-USL0	SUN2000- 10KTL-USL0	SUN2000- 11.4KTL-USL0	
			Effic	iency			
laximum efficiency				9%			
EC weighted efficiency	99%						
,			In	nut			
faximum input voltage				put ) Vdc			
Rated input voltage				Vdc			
lumber of inputs		2			3		
Maximum input current		15 A x 2			15 A x 3		
			Ou	tput			
Rated & Max. AC output power		4.3 kW @ 208 V 5.0 kW @ 240 V	6.6 kW @ 208 V	7.8 kW @ 208 V	8.7 kW @ 208 V 10.0 kW @ 240 V	9.9 kW @ 208 \ 11.4 kW @ 240	
Rated output voltage			208 Vac	, 240 Vac			
Rated AC grid frequency			60	Hz			
Maximum output current	15.9 A	20.9 A	31.7 A	37.5 A	41.7 A	47.5 A	
djustable power factor				0.8 lagging			
lax. total harmonic distortion			<	3%			
Revenue grade data ANSI C12.20 Rapid shutdown			Built-in 0	ature .5% RGM EC 2014 and 2017			
			Prote	ection			
FCI compliant to UL 1699B			Y	es			
OC disconnect device				'es			
Inti-islanding protection			Υ	'es			
C reverse polarity protection			Υ	es			
nsulation monitoring			Υ	'es			
C surge arrester			Y	es			
C surge arrester				es			
Residual current detection				es .			
C over-current protection				'es			
AC short-circuit current cap. AC over-voltage protection				'es 'es			
Over-heat protection				es 'es			
Ground-fault isolation detection				'es			
			General S	pecification			
AC & backup output conduit size	0.75" Conduit		1.00" Conduit				
V & backup output conduit size		0.75" Conduit		0.75" Conduit			
Operating temperature range			-40°C ~ 60°C	C (-40°F ~ 140°F)			
Relative humidity			0 ~ 10	0% RH			
ransformerless			Y	es			
Cooling				convection			
loise emission (typical)		< 25 dB (A)			< 29 dB (A)		
Display				dicators			
Supported comm. interface		30.7 lb (40.0 l\	K5485, WLAN	N, 4G (optional)	50.7 lb (22.0 l)		
Veight Dimensions (W * H * D)		39.7 lb. (18.0 kg) x 6.3 in (400 mm x	570 mm v 160 mm\	17 5 in v 25 5	50.7 lb. (23.0 kg) in x 6.3 in (445 mm x	850 mm v 180 mm\	
Protection rating	10.0 III A ZZ.4 III :	. J.J III (400 IIIII X			X (11111 C++) 111 0.0 A 11	000 mm x 100 mm)	
Self-consumption at night				ery enabling < 5 W	)		
			,	ckup			
Rated continuous output power		3.5.1	VA @ 240 V	kup	5 kVA @ 240 V		
Peak output power	3.8 kVA 10s @ 2		/A 10s @ 240 V		7 kVA 10s @ 240 V	V	
		, , , ,		ompatibility			
				WILLIAM TO THE STREET			
3attery		Alls	series support LG Ch		/pe-R)		
Battery			series support LG Ch	nem RESU 10H (T)		\	
-			series support LG Cl Compliance (m	nem RESU 10H (T) ore available		)	
EMC		Standards C	series support LG CI Compliance (m FCC Part	nem RESU 10H (T) ore available 15 Class B	upon request		
EMC Safety Grid connection standards		Standards C	series support LG Cl Compliance (m	nem RESU 10H (T) <b>ore available</b> 15 Class B 09-1, ANSI/CAN/U	upon request		

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# **Smart PV Optimizer**







### **Higher Yields**

Up to 30% more energy



Simple & Easy

More flexible system design



#### Safe & Reliable

Module-level rapid shutdown



### **Smart Management**

Module-level management

Technical Specification	SUN2000-375W-USP0	
	Input	
Rated input power 1	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	II	
	Output	
Max. output voltage	80 V	
Max. output current	15 A	
·		
	Standard Compliance	
EMC	FCC Part15 Class B	
Safety	UL 1741, UL 1703, UL 2703, CSA C22.2	
RoHS	Yes	
	Canaral Specification	
	General Specification	
Maximum allowed system voltage	600 V	
Dimension (W * H * D)	5.3 in x 3.3 in x 1.0 in (135 mm x 85 mm x 25.2 mm)	
Weight (including cables)	1.7 lb. (0.8 kg)	
Installation part	Star Washer (standard) / Grounding Plate, Grounding Lug, Aluminum Extruded Sections (options	
Input connector	MC4	
Output connector	MC4	
Output wire length	47 in (1.2 m)	
Operating temperature / humidity range	-40°C ~ 85°C (-40°F ~ 185°F)	
Humidity range	0 ~ 100 % RH	
Degree of protection	TYPE 6P	
	PV System Design Using A SUN2000 Inverter	
Min /Mary string longth (navyon antiquinas)	COF	

<sup>\*1</sup> Rated input power of the module is 375 W, Max. input module power is 450 Wp@STC.

Min./Max. string length (power optimizers)

Max. power per string

6-25 5550 W <sup>2</sup>

<sup>\*2</sup> Exceeding this power limit may cause clipping and efficiency loss.

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# **Backup Auto-transformer**







### Simple & Easy

Simply wiring, supports easy installation on the wall



### Safe & Reliable

Natural convection, supports thermal protection

Technical Specification	HW-TX-5000
	Electrical Ratings
Continuous rated power	5 kVA
Output voltage	120 / 240 V Split Phase
Max continuous output current per phase @ 120 V	32 A
Rated AC grid frequency	60 Hz
	Otandard Carrellianas
	Standard Compliance
Safety	UL 5085-1, UL 5085-2
	General Specification
Dimensions (W * H * D)	10.4 in × 11.0 in × 5.1 in (265 mm × 280 mm × 130 mm)
Weight	30.9 lb. (14.0 kg)
Operating temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Humidity range	0 ~ 100 % RH
Protection rating	TYPE 4X
Cooling	Natural convection
Noise emission (typical)	< 25 dB (A)
Installation	Wall mounted

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