## **Smart Energy Center**







**Higher Revenue** 

Max. efficiency 98.6%



Simple & Easy

Optimized AC connector



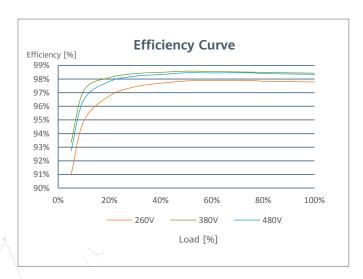
**Battery Ready** 

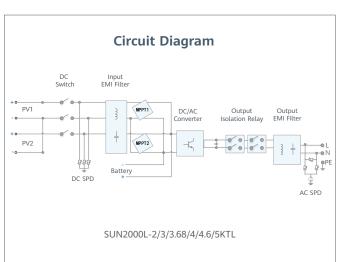
Plug & Play battery interface



Safe & Reliable

DC & AC surge protection





## **Technical Specification**

Technical Specification	SUN2000L -2KTL	SUN2000L -3KTL	SUN2000L -3.68KTL	SUN2000L -4KTL	SUN2000L -4.6KTL	SUN2000L -5KTL
			Effic	iency		
Max. efficiency	98.4 %	98.5 %	98.5 %	98.6 %	98.6 %	98.6 %
European weighted efficiency					98.0 %	
European weighted efficiency	97.0 %	97.6 %	97.8 %	97.9 %	98.0 %	98.0 %
			In	put		
Recommended max. PV power	3,000 Wp	4,500 Wp	5,520 Wp	6,000 Wp	6,900 Wp	7,500 Wp
Max. input voltage				/ 495 V <sup>1</sup>		
Operating voltage range <sup>1</sup>	90 V~ 600 V / 90 V~ 495 V <sup>1</sup>					
Start-up voltage	120 V					
Full power MPPT voltage range Rated input voltage	120 V ~ 480 V	160 V ~ 480 V	190 V ~ 480 V 38	210 V ~ 480 V 80 V	260 V ~ 480 V	260 V ~ 480
Max. input current per MPPT	11 A					
Max. short-circuit current	15 A					
Number of MPP trackers	2					
Max. number of inputs				2		
			Ou	tput		
Grid connection				phase		
Rated output power	2,000 W	3,000 W	3,680 W	4,000 W	4,600 W	5,000 W <sup>2</sup>
Max. apparent power	2,200 VA	3,300 VA	3,680 VA	4,400 VA	5,000 VA <sup>3</sup>	5,500 VA <sup>4</sup>
Rated output voltage	_,	-,000 111	,	30 V / 240 V	2,500 .71	-,000 471
Rated AC grid frequency	50 Hz / 60 Hz					
Max. output current	10 A	15 A	16 A	20 A	23 A <sup>5</sup>	25 A <sup>5</sup>
Adjustable power factor			0.8 leading	0.8 lagging		
Max. total harmonic distortion				3 %		
			Prote	action		
Anti-Islanding protection	Protection  Yes					
DC reverse polarity protection	Yes					
Insulation monitoring	Yes					
DC surge protection <sup>6</sup>	Yes					
AC surge protection <sup>6</sup>	Yes					
Residual current monitoring	Yes					
AC overcurrent protection	Yes					
AC short-circuit protection	Yes					
AC overvoltage protection	Yes					
Over-heat protection	Yes					
			Gener	al Data		
Operating temperature range	-30 ~ +60 °C (Derating above 45°C @ Rated output power)					
Relative operating humidity	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 x 375 x 161.5 mm (14.8 x 14.8 x 6.4 inch)					
Degree of protection	IP65					
Nighttime Power Consumption			<	2 W		
			Battery Co	mpatibility		
Battery	LG Chem RESU 7H_R / 10H_R					
Voltage range	350 ~ 450 Vdc					
Max. current	10 A					
Communication			RS	485		
			Ontimizor	`ompatibilita		
DC MINIS	Optimizer Compatibility SUN2000P-375W via Smart PV Safety Box SmartPSB2000L					
DC MBUS compatible optimizer		SUN20	บบP-3/5W via Smar	rt PV Safety Box Sm	artPSB2000L	
		Standard Co	mnliance (mo	re available u	non request)	
Safety	Standard Compliance (more available upon request)					

G83/2, G59/3, EN 50438, CEI 0-21, VDE-AR-N-4105, AS 4777, C10/11, ABNT, UTE C15-712, RD 1699, NRS 097-2-1, Grid connection standards DEWA 2016

Safety

EN/IEC 62109-1, EN/IEC 62109-2

<sup>\*1.</sup> 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. 
\*2. AS4777:4990W. \*3. VDE-AR-N 4105:4600VA / AS4777:4990VA. \*4. AS4777:4990VA. \*5. AS4777:21.7A. 
\*6. Compatible TYPE II protection class according to EN/IEC 61643-11

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