## **Smart Energy Controller**







**Active Safety** 

Active ArcingProtection



**Higher Yields** 

Up to 30%MoreEnergywithOptimizer

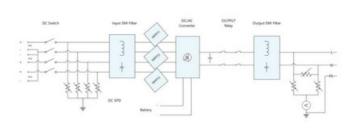


**Battery Ready** 

Plug & Play, Whole-house power backup



## **Circuit Diagram**



SUN2000-8/10K-LC0

Version No.: 02-202309 Preliminary Version

## TechnicalSpecification

Technical Specification	SUN2000-8K-LC0	SUN2000-10K-LC0
	Efficienc	У
Max. efficiency	98.1%	
European weighted efficiency	97.5%	
	Input (PV	)
Recommended max. PV power	12,000 Wp	15,000 Wp
Max. input voltage <sup>1</sup>	600 V	25,000 11 p
Start-up voltage	50 V	
MPPT operating voltage range	40 V ~ 560 V	
Rated input voltage	360 V	
Max. input current per MPPT	16 A	
Max. short-circuit current	20 A	
Max. number of inputs	3	
Number of MPP trackers	3	
	Input (DC Bat	tery)
Compatible battery	LUNA2000-5/10/15-S0	
Operating voltage range	350 ~ 560 Vdc	
Max operating current Max charge power	8,000 W	10,000W
Max discharge power	8,000 W 8,000 W	10,000W
and in Be bottlet	*	
	Output (On G	
Grid Connection	Single Phase	
Rated output power	8,000 W	10,000 W
Max. apparent power	8,800 VA	10,000 VA
Rated output voltage	220 Vac / 230 Vac / 240 Vac	Vac, L / N + PE 45.5A
Max. output current Rated AC grid frequency	40.0 A 45.5A 50 Hz / 60 Hz	
Adjustable power factor	0.8 leading 0.8 lagging	
Max. total harmonic distortion	U.o leading U.o lagging ≤ 3 %	
Backup power output	Yes (via SmartGuard-63A-S0)	
1		
And Interesting and the second	Features & Pro	tection
Anti-islanding protection	Yes	
DC reverse polarity protection	Yes Yes	
Insulation monitoring DC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11	
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11	
Residual current monitoring unit	Yes	
AC over-current protection	Yes	
AC short-circuit protection	Yes	
AC overvoltage protection	Yes	
Over-heat protection	Yes	
Arc fault protection	Yes	
Battery reverse charging from grid	Yes	
	General Da	ata
Operation temporature range	-25 °C ~ +60 °C (-13 °F ~ 140 °F)	
Operation temperature range Relative operating humidity	0 % RH ~ 100%	
Operating altitude	$0 \sim$ 4,000 m (Derating a	
Cooling	Natural Convection Smart Air Cooling	
Display	LED Indicators, Integrated WLAN + FusionSolar APP	
	RS485, WLAN / Ethernet via Smart Dongle-WLAN-FE (Optional)	
Communication	4G / 3G / 2G via Smart Dongle-4G (Optional), EMMA	
Weight	14.5 kg	15 kg
Dimensions (W x H x D)	425 * 365 * 150 mm (16.7 °	* 14.4 * 5.9 inch)
(incl. mounting plate)		
Degree of protection	IP66	
	Optimizer Comp	patibility
Compatible optimizer	SUN2000-450W-P2, SUN	
	Standard Compliance (more a	valiable upon request)
Certificates	IEC62109-1, IEC62109-2, ,EN 61000-6 series, EN 62920 ETSI EN 301 489-17 EMC, EN 61000-3-11	

The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

Disclaimer: the preceding values are measured by an internal laboratory of Huawei in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.