

SMART ENERGY CONTROLLER

SUN2000-7.5K-LC0



*Only launched in Brazil



Active Safety
Active Arcing Protection



Higher Yields
Up to 30% More Energy
with Optimizer



Battery Ready
Plug & Play, Whole-house
power backup

 **SUN2000-7.5K-LC0**
Technical Specification

Technical Specification		SUN2000-7.5K-LC0
Efficiency		
Max. efficiency		98.1%
European weighted efficiency		97.5%
Input (PV)		
Recommended max. PV power ¹		11,250 Wp
Max. input voltage		600 V
Startup voltage		50 V
MPPT operating voltage range		40 ~ 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 Battery)		
Compatible battery	LUNA2000-5/10/15-S0, LUNA2000-7/14/21-S1	
Operating voltage range		350 ~ 560 Vdc
Max. operating current		25 A
Max. charge power		7,500 W
Max. discharge power		7,500 W
Output (On Grid)		
Grid connection	Single-phase	
Rated output power	7,500 W @40°C	
Max. apparent power	7,500 VA @40°C	
Rated output voltage	220 Vac / 230 Vac / 240 Vac, L / N + PE	
Max. output current	34.09 A	
Rated AC grid frequency	50 Hz/60 Hz	
Adjustable power factor	0.8 leading ... 0.8 lagging	
Max. total harmonic distortion	≤ 3%	
Backup power output	Yes (via SmartGuard-63A-S0)	
Features & Protection		
Anti-islanding protection	Yes	
DC reverse polarity protection	Yes	
Insulation monitoring	Yes	
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 overcurrent protection	Yes	
AC short-circuit protection	Yes	
AC overvoltage protection	Yes	
Over-heat protection	Yes	
Arc fault protection	Yes	
Battery charging from grid	Yes	
General Data		
Operating temperature range	-25°C to +60°C (-13 °F ~ 140 °F)	
Relative operating humidity	0%-100% RH	
Operating altitude	0-4,000 m (Derating above 2,000 m)	
Cooling	Natural convection	
Display	LED indicators; integrated WLAN + FusionSolar app	
Communication	RS485, WLAN / Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional), EMMA	
Weight	14.5 kg	
Dimensions (W x H x D) (Incl. mounting plate)	425 mm x 376.5 mm x 150 mm	
Degree of protection	IP66	
Optimizer Compatibility		
Compatible optimizer	SUN2000-450W-P2, SUN2000-600W-P	
Standards Compliance (More Available Upon Request)		
Certificates	Ordinance No. 140	
Grid connection standards	Ordinance No. 140	

1. 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.