

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
Max. apparent power		7,500 VA
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.