



Higher Revenue

Max. efficiency 98.5%
Up to 30% more energy



Fast Installation

<1.5 min optimizer pairing
<5 sec physical view creation



Battery Ready

5+5 battery interface
Night reverse charging



Safer Investment

AI powered AFCI
Module-level voltage shutdown



Technical Specification	SUN2000L-2KTL-L1	SUN2000L-3KTL-L1	SUN2000L-3.68KTL-L1	SUN2000L-4KTL-L1	SUN2000L-4.6KTL-L1	SUN2000L-5KTL-L1	SUN2000L-6KTL-L1
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Efficiency							
Max. efficiency	98.3 %	98.4 %	98.4 %	98.5 %	98.5 %	98.5 %	98.5 %
European weighted efficiency	97.0 %	97.6 %	97.8 %	97.9 %	98.0 %	98.0 %	98.0 %

Input							
Recommended max. PV power	3,000 Wp	4,500 Wp	5,520 Wp	6,000 Wp	6,900 Wp	7,500 Wp	9,000 Wp
Max. input voltage	600 V						
Operating voltage range	100 V ~ 600 V						
Start-up voltage	100 V						
Full power MPPT voltage range	90 V ~ 560 V						
Rated input voltage	360 V						
Max. input current per MPPT	12.5 A						
Max. short-circuit current	15 A						
Number of MPP trackers	2						
Max. number of inputs per MPPT	1						

Output							
Grid connection	Single phase						
Rated output power	2,000 W	3,000 W	3,680 W	4,000 W	4,600 W	5,000 W	6,000 W
Max. apparent power	2,200 VA	3,300 VA	3,680 VA	4,400 VA	4,600 VA	5,500 VA	6,000 VA
Rated output voltage	220 V / 230 V / 240 V						
Rated AC grid frequency	50 Hz / 60 Hz						
Max. output current	10 A	15 A	16 A	20 A	23 A	25 A	27.3 A
Adjustable power factor	0.8 leading ... 0.8 lagging						
Max. total harmonic distortion	≤ 3 %						

Protection							
Anti-islanding protection	Yes						
DC reverse polarity protection	Yes						
Insulation monitoring	Yes						
DC surge protection ¹	Yes						
AC surge protection ¹	Yes						
Residual current monitoring	Yes						
AC overcurrent protection	Yes						
AC short-circuit protection	Yes						
AC overvoltage protection	Yes						
Over-heat protection	Yes						

General Data							
Operating temperature range	-40 ~ +70 °C (Derating above 45 °C @ Rated output power)						
Relative operating humidity	5 %RH ~ 95 %RH						
Operating altitude	0 - 4,000 m (Derating above 2,000 m)						
Cooling	Natural convection						
Display	LED indicators						
Communication	RS485, WLAN, WLAN-FE, 4G						
Weight (incl. mounting bracket)	12 kg (26.5 lb)						
Dimension (incl. mounting bracket)	365mm * 365mm * 140 mm (14.4 x 14.4 x 5.5 inch)						
Degree of protection	IP65						

Battery Compatibility							
Battery	LG Chem RESU 7H_R / 10H_R						
Voltage range	350 ~ 450 Vdc						
Max. current	10 A						
Communication	RS485						

Standard Compliance (more available upon request)							
Safety							
Grid connection standards							

*1. Compatible TYPE II protection class according to EN/IEC 61643-11