



Higher Revenue

Max. efficiency 98.6%



Simple & Easy

17 kg, one person easy installation



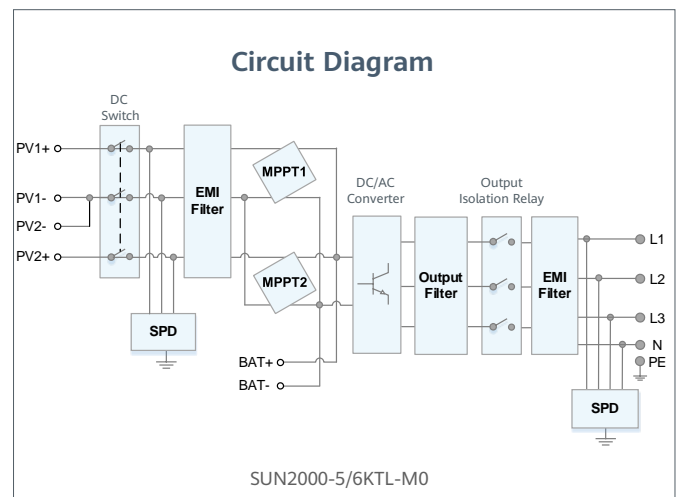
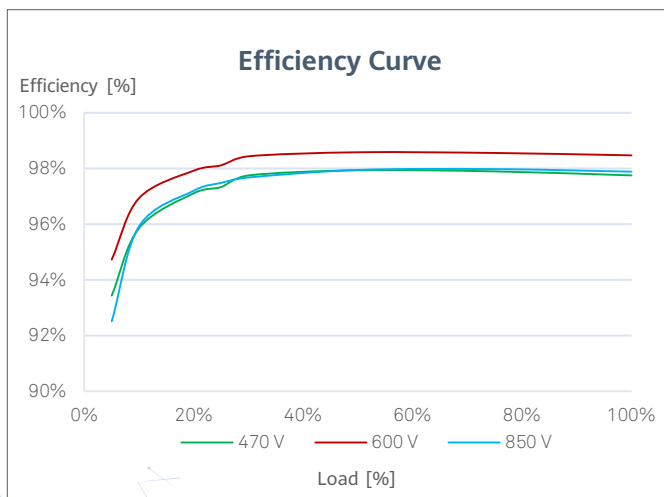
Battery Ready

Plug & Play battery interface



Safe & Reliable

Built-in Arc fault protection



SUN2000-5/6KTL-M0
Technical Specification

Technical Specification	SUN2000-5KTL-M0	SUN2000-6KTL-M0
Efficiency		
Max. efficiency	98.4%	98.6%
European weighted efficiency	97.5%	97.7%
Input		
Recommended max. PV power	10,250 Wp	12,300 Wp
Max. input voltage ¹	1,100 V	
Operating voltage range ²	140 V ~ 980 V	
Start-up voltage	200 V	
Full power MPPT voltage range	240 V ~ 850 V	285 V ~ 850 V
Rated input voltage	600 V	
Max. input current per MPPT	11 A	
Max. short-circuit current	15 A	
Number of MPP trackers	2	
Max. number of inputs	2	
Output		
Grid connection	Three-phase	
Rated output power	5,000 W	6,000 W
Max. apparent power	5,500 VA	6,600 VA
Rated output voltage	220 Vac / 380 Vac, 230 Vac / 400 Vac, 3W / N+PE	
Rated AC grid frequency	50 Hz / 60 Hz	
Max. output current	8.5 A	10.1 A
Adjustable power factor	0.8 leading ... 0.8 lagging	
Max. total harmonic distortion	≤ 3 %	
Features & Protections		
Input-side disconnection device	Yes	
Anti-Islanding protection	Yes	
DC reverse polarity protection	Yes	
Insulation monitoring	Yes	
DC surge protection ³	Yes	
AC surge protection ³	Yes	
Residual current monitoring	Yes	
AC overcurrent protection	Yes	
AC short-circuit protection	Yes	
AC overvoltage protection	Yes	
Arc fault protection	Yes	
Ripple receiver control	Yes	
General Data		
Operating temperature range	-25 ~ + 60 °C (-13 °F ~ 140 °F) (Derating above 45 °C @ Rated output power)	
Relative operating humidity	0 %RH ~ 100 %RH	
Operating altitude	0 - 4,000 m (13,123 ft.) (Derating above 3000 m)	
Cooling	Natural convection	
Display	LED Indicators; Integrated WLAN + FusionSolar App	
Communication	RS485; WLAN via Smart Dongle-WLAN; 4G / 3G / 2G via Smart Dongle-4G	
Weight (incl. mounting bracket)	17 kg (37.5 lb)	
Dimension (incl. mounting bracket)	525 x 470 x 166 mm (20.7 x 18.5 x 6.5 inch)	
Degree of protection	IP65	
Battery Compatibility		
Battery Interface	Integrated ⁴	
Standard Compliance (more available upon request)		
Certificate	EN/IEC 62109-1, EN/IEC 62109-2, IEC 62116	
Grid connection standards	AS/NZS 4777:2015	

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

*2 Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

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

*4 Compatible battery solution will be available in 2020 H2