



red dot award 2016
winner



Higher Revenue

Max. efficiency 98.6%



Simple & Easy

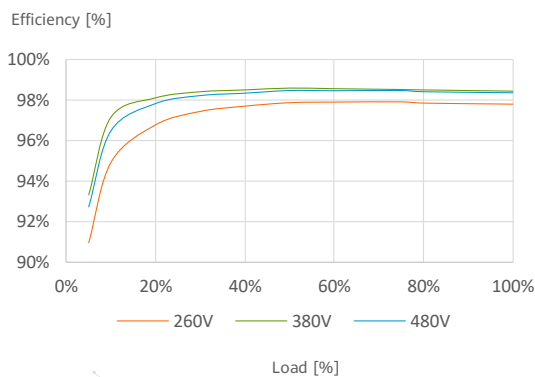
Support WLAN or 4G/3G/2G



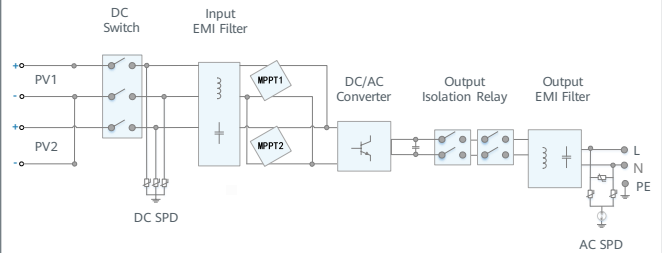
Safe & Reliable

DC & AC lightning protection

Efficiency Curve



Circuit Diagram



SUN2000-2/3/4/5KTL-L0

SUN2000-2/3/4/5KTL-L0
Technical Specification

Technical Specification	SUN2000 -2KTL-L0	SUN2000 -3KTL-L0	SUN2000 -4KTL-L0	SUN2000 -5KTL-L0
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Efficiency				
Max. efficiency	98.4 %	98.5 %	98.6 %	98.6 %
European weighted efficiency	97.0 %	97.6 %	97.9 %	98.0 %

Input				
Max. input voltage	600 V			
Operating voltage range ¹	90 V~ 600 V			
Start-up voltage	120 V			
Full power MPPT voltage range	120 V ~ 480 V	160 V ~ 480 V	210 V ~ 480 V	260 V ~ 480 V
Rated input voltage	380 V			
Max. input current per MPPT	11 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	4,000 W	5,000 W
Max. apparent power	2,200 VA	3,300 VA	4,400 VA	5,500 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	20 A	25 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 lightning protection	Yes
AC lightning protection	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	-30 ~ +60 °C
Relative operating humidity	0 %RH ~ 100 %RH
Operating altitude	0 - 4,000 m
Cooling	Natural convection
Display	LED indicators
Communication	RS485, WLAN / 4G ²
Weight (incl. mounting bracket)	10.6 kg (23.4 lb)
Dimension (incl. mounting bracket)	375 * 375 * 161.5 mm (14.8 * 14.8 * 6.4 inch)
Degree of protection	IP65

Standard Compliance (more available upon request)	
Safety	EN/IEC 62109-1, EN/IEC 62109-2
Grid connection standards	EN 50438-2013, MEA, PEA

*1. Only support real PV input
 *2. Communication automatically switches to 3G / 2G when 4G signal is not available.