SUN2000-30/36/40KTL-M3
Smart String Inverter

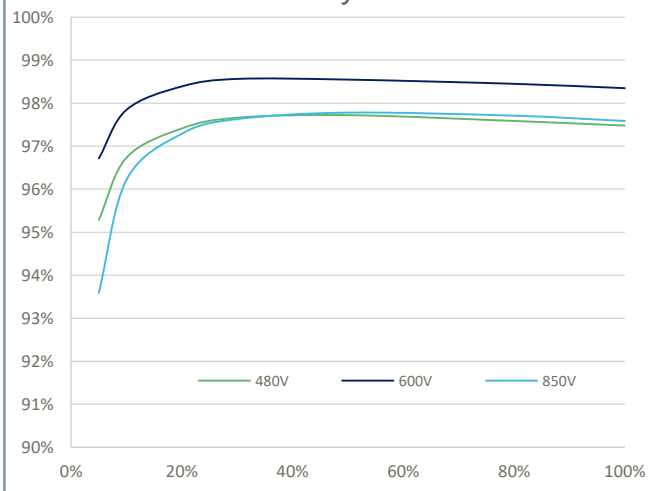
Smart
8 strings intelligent monitoring

Efficient
Max. efficiency 98.7%

Safe
Fuse free design

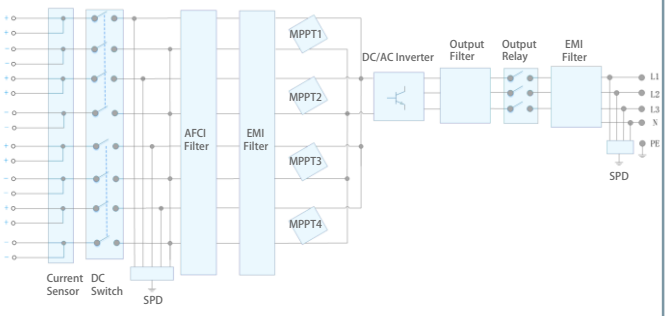
Reliable
Type II surge arresters for DC & AC

Efficiency Curve



SUN2000-40KTL-M3

Circuit Diagram



SUN2000-40KTL-M3

* Basic version, for reference only

SUN2000-30/36/40KTL-M3
Technical Specification

Techinical Specification	SUN2000-30KTL-M3	SUN2000-36KTL-M3	SUN2000-40KTL-M3
Efficiency			
Max. Efficiency	98.7%	98.7%	98.7%
European Efficiency	98.4%	98.4%	98.4%
Input			
Max. Input Voltage	1,100 V		
Max. Current per MPPT	26 A		
Max. Short Circuit Current	40 A		
Start Voltage	200 V		
MPPT Operating Voltage Range	200 V ~ 1000 V		
Rated Input Voltage	600 V		
Max. input number	8		
Number of MPP trackers	4		
Output			
Rated AC Active Power	30,000 W	36,000 W	40,000 W
Max. AC Apparent Power	33,000 VA	40,000 VA	44,000 VA
Rated Output Voltage	230 Vac / 380 Vac , 3W / N + PE		
Rated AC Grid Frequency	50 Hz / 60 Hz		
Rated Output Current	45.6 A	54.7 A	60.8 A
Max. Output Current	50.4 A	61.1 A	67.2 A
Adjustable Power Factor Range	0.8 leading... 0.8 lagging		
Max. Total Harmonic Distortion	< 3 %		
Protection			
AFCI Intelligent arc protection	Yes		
Module PID Repair	Yes		
DC Swtich	Yes		
Anti-islanding Protection	Yes		
AC Overcurrent Protection	Yes		
DC Reverse-polarity Protection	Yes		
PV-array String Fault Monitoring	Yes		
DC Surge Arrester	TYPE II		
AC Surge Arrester	TYPE II		
Insulation Resistance Detection	Yes		
Residual Current Monitoring Unit	Yes		
Dry Contact Remote Control			
Communication			
Display	LED indicators; WLAN + FusionSolar APP		
RS485	Yes		
Smart Dongle	Optional : WLAN-FE/4G Dongle		
MBUS	Yes (isolation transformer required)		
General			
Operating Temperature	-25℃~60℃		
Relative Humidity	0% RH ~ 100% RH		
Operating Altitude	4000 m		
Noise	< 50 dB		
Cooling Method	Natural Convection		
DC Connector	Staubli MC4		
AC Connector	Waterproof Connector + OT/DT Terminal		
Weight (with mounting plate)	43 kg		
Protection Degree	IP66		
Topology	Transformerless		
Night Power Consumption	≤5.5W		
Optimizer			
Optimizer model (optional)	SUN2000-450W-P1		
Standard			
Grid Code	NB/T 32004-2013;		

1. The max. input voltage is the up limit of the DC voltage, any higher input DC voltage may damage the inverter.
2. Any DC input voltage beyond the operating voltage range may cause the inverter to work abnormally.
3. The SUN2000-30/40KTL-M3 uses PID function to increase the potential between PV- and ground to above 0V, thereby reparing the attenuation of modules. The supported module types include P type (mono, poly).

* Early version, Reference Only.