

SUN2000-80K-MGL0

Smart PV Controller



Arc Fault Protection



PV Ground-Fault Protection



PID Recovery



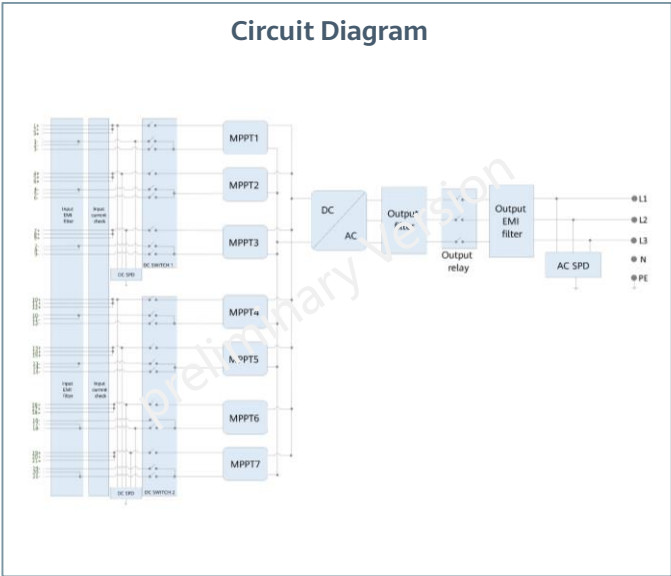
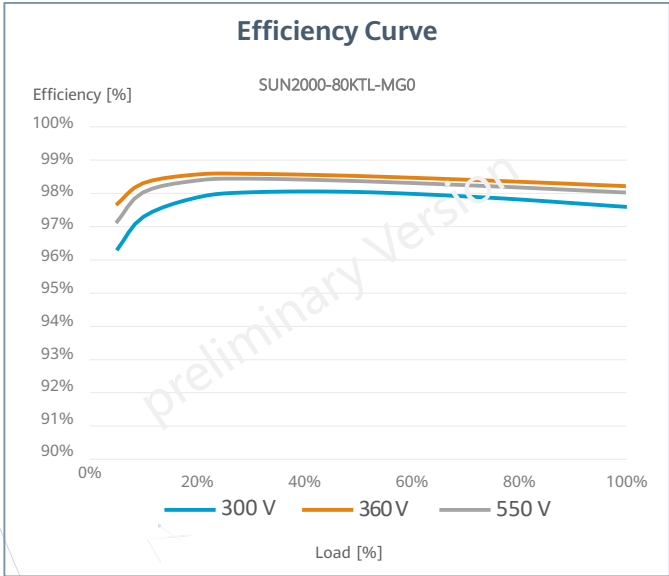
Smart String Level Disconnect



Smart Connector Temperature Detection



MBUS



• This datasheet only shows Preliminary Version, the information may change. Please contact with HW local supplier for the latest version

Technical Specification		SUN2000-80K-MGL0
		Efficiency
Max. efficiency		/
European efficiency		/
		Input
Max. Input Voltage ¹		750 V
Max. Current per MPPT		48A
Max. Short Circuit Current per MPPT		66A
Start Voltage		160 V
MPPT Operating Voltage Range ²		160 V ~ 750 V
Number of MPP trackers		7
Max. input number per MPP tracker		3
		Output
Nominal AC Active Power		80,000 W
Max. AC Apparent Power		88,000 VA
Max. AC Active Power (cosφ=1)		88,000 W
Nominal Output Voltage		127Vac 220Vac, 3W/N+PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Nominal Output Current		210.0A
Max. Output Current		233.3A
Adjustable Power Factor Range		0.8 leading... 0.8 lagging
alternating current THDi		<3%
		Protection
Input-side Disconnection Device		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
DC Insulation Resistance Detection		Yes
Residual Current Monitoring Unit		Yes
Smart String Level Disconnecter		Yes
Arc Fault Protection		Yes
Terminal Temperature Detection		Yes
PID Recovery		Yes
PV Ground-Fault Protection		Yes
		Communication
Display		LED indicators; WLAN adaptor + FusionSolar APP
RS485		Yes
USB		Yes
Smart Dongle-4G		Smart Dongle – 4G / WLAN (Optional)
Monitoring BUS (MBUS)		Yes (isolation transformer required)
		General Data
Dimensions (W x H x D)		1,000 x 710 x 395 mm
Weight (with mounting plate)		98 kg
Operating Temperature Range		-25°C ~ 60°C
Cooling Method		Smart Air Cooling
Max. Operating Altitude		4,000 m (13,123 ft.)
Relative Humidity		0 ~ 100%
DC Connector		Amphenol HH4
AC Connector		Waterproof Connector + OT/DT Terminal
Protection Degree		IP66
Topology		Transformerless
		Standard Compliance (more available upon request)
Certificate		EN 62109-1/-2, IEC 62109-1/-2, IEC 62116, IEC 61727, IEC 60068, IEC 61683

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*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

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