

# Smart String Inverter

SUN2000-70KTL-INM0



## Smart

- 12 strings intelligent monitoring and fast trouble-shooting
- Power Line Carrier Communication (PLCC) supported
- Smart I-V Curve Diagnosis supported

## Efficient

- Max. efficiency 99.0%
- European efficiency 98.7%
- 6 MPPT per unit, effectively reducing string mismatch

## Safe

- DC switch integrated, safe and convenient for maintenance
- Residual Current Monitoring Unit (RCMU) integrated
- Fuse free design

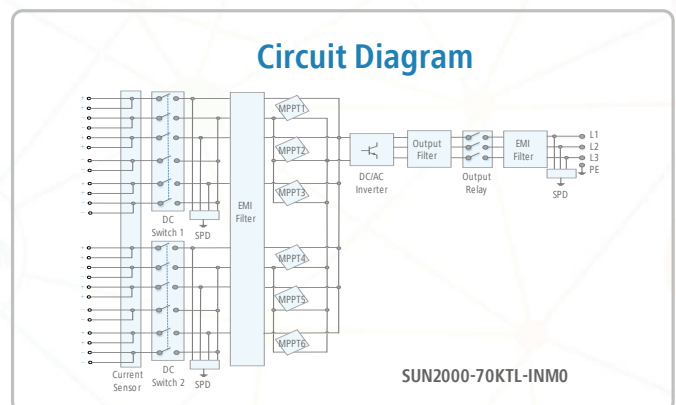
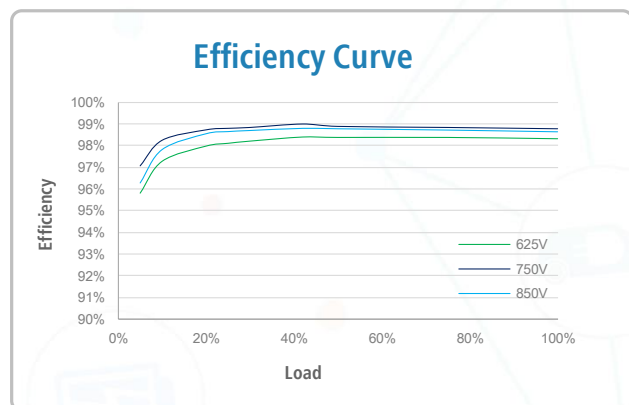
## Reliable

- Natural cooling technology
- Protection degree of IP65
- Type II surge arresters for both DC and AC

# Smart String Inverter (SUN2000-70KTL-INM0)



Technical Specifications	SUN2000-70KTL-INM0
	<b>Efficiency</b>
Max. Efficiency	99.0%
European Efficiency	98.7%
	<b>Input</b>
Max. Input Voltage	1,100 V
Max. Current per MPPT	22 A
Max. Short Circuit Current per MPPT	30 A
Start Voltage	200 V
MPPT Operating Voltage Range	200 V ~ 1,000 V
Rated Input Voltage	750 V
Number of Inputs	12
Number of MPP Trackers	6
	<b>Output</b>
AC Active Power	70,000 W @ 45°C , 65,000 W @ 50°C
Max. AC Apparent Power	72,000 VA
Max. AC Active Power (cosφ=1)	72,000 W
Rated Output Voltage	500 V, 3W + PE
Rated AC Grid Frequency	50 Hz
Rated Output Current	75.1A
Max. Output Current	83.2A
Adjustable Power Factor Range	0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion	< 3%
	<b>Protection</b>
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
	<b>Communication</b>
Display	LED Indicators, Bluetooth + APP
RS485	Yes
USB	Yes
Power Line Carrier Communication (PLCC)	Yes
	<b>General</b>
Dimensions (W x H x D)	1075 x 555 x 300 mm (42.3 x 21.9 x 11.8 inch)
Weight (with mounting plate)	71 kg (156.5 lb.)
Operating Temperature Range	-25 °C ~ 60 °C (-13 °F ~ 140 °F)
Cooling Method	Natural Convection
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0~100%
DC Connector	Amphenol Helios H4
AC Connector	Waterproof PG Terminal + OT Connector
Protection Degree	IP65
Topology	Transformerless
	<b>Standard Compliance (more available upon request)</b>
Certificate	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 62910, IEC 60068, IEC 61683
Grid Code	IEC 61727



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