

## EESOLAR-29.9/40KLT-M3

## **Smart String Inverter**





Smart

8 strings intelligent monitoring



**Efficient** 

Max. efficiency 98.7%



Safe

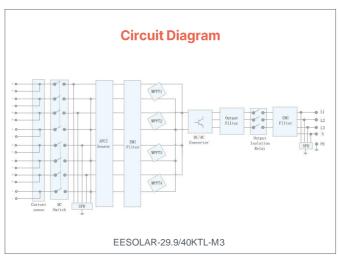
Fuse fee design



Reliable

Type II surge arresters for DC & AC





## EESOLAR-29.9/40KTL-M3 **Technical Specification**

echnical Specification	EESOLAR-29.9KTL-M3	EESOLAR-40KTL-M3
	Efficie	encv
Max. Efficiency	98.7%	
European Efficiency		.4%
European Emolency		7.0
	Input	
Max. Input Voltage 1	1,100 V	
Max. Current per MPPT	27	7 A
Max. Short Circuit Current per MPPT	40	) A
Start Voltage	200 V	
MPPT Operating Voltage Range <sup>2</sup>	200 V ~ 1000 V	
Rated Input Voltage	60	0 V
Number of Inputs	8	
Number of MPP Trackers	4	
	0.1	
Detect AO Active Device	Output	
Rated AC Active Power	29,900 W	40,000 W
Max. AC Apparent Power	29,900 VA	44,000 VA
Rated Output Voltage	230 Vac / 400 Vac, 3W/N+PE	
Rated AC Grid Frequency		/ 60 Hz
Rated Output Current	43.2 A	57.8 A
Max. Output Current	43.2 A	63.8 A
Adjustable Power Factor Range	0.8 LG	
Max. Total Harmonic Distortion	< :	3%
	Protec	tion
Input-side Disconnection Device		es
Anti-islanding Protection	Yes	
AC Overcurrent Protection	Yes	
DC Reverse-polarity Protection	Yes	
PV-array String Fault Monitoring	Yes	
DC Surge Arrester	Υ	es
AC Surge Arrester	Υ	es
DC Insulation Resistance Detection	Υ	es
Residual Current Monitoring Unit	Yes	
Arc Fault Protection	Yes	
Ripple Receiver Control	Yes	
Integrated PID Recovery <sup>3</sup>		es

	Communication	
Display	LED Indicators, Integrated WLAN + APP	
RS485	Yes	
Communication	WLAN/Fast Ethernet via Smart EEDongleA-05 (Optional) Fast Ethernet/4G via EELogger3000 (Optional)	

	General Data
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)
Weight (with Mounting Plate)	43 kg (94.8 lb)
Nosie Level	< 46 dB
Operating Temperature Range	-25 ~ + 60 °C (-13 °F ~ 140 °F)
Cooling Method	Natural Convection
Max. Operating Altitude	0 - 4,000 m (13,123 ft.)
Relative Humidity	0% RH ~ 100% RH
DC Connector	Staubli MC4
AC Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
Topology	Transformerless
Nighttime Power Consumption	≤5.5W

Optimizer Compatibility		Optimizer Compatibility
	Compatible Optimizer	SUN2000-600W-P/SUN2000-450-P2, MERC-1100/1300W-P, Tigo optimizers <sup>4</sup>

	Standard Compliance (more available upon request)
Safety	RCM, IEC 62109 -1, IEC 62109 -2, IEC 62116, AS/NZS 60947.3:2015
Grid Connection Standards	AS/NZS 4777.2:2020

<sup>\*1.</sup> 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. EESOLAR-29.940K/IL-M3 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT)

\*4. Please consult the suppliers for the specifications of the optimizer pairing.