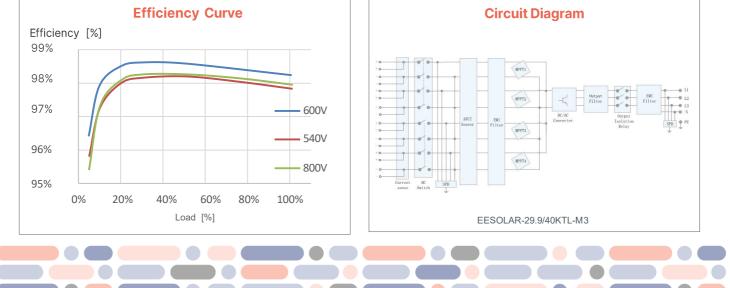


EESOLAR-29.9/40KTL-M3 Smart String Inverter





Version No.: 001

entelargroup.co.nz/entelarenergy/

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

echnical Specification	EESOLAR-29.9KTL-M3	EESOLAR-40KTL-M3
	Efficie	ency
Max. Efficiency	98.7%	
European Efficiency	98.4%	
		put
Max. Input Voltage 1	1,100 V	
Max. Current per MPPT	27 A	
Max. Short Circuit Current per MPPT Start Voltage	40 A 200 V	
MPPT Operating Voltage Range ²	200 V ~ 1000 V	
Rated Input Voltage	600 V	
Number of Inputs	8	
Number of MPP Trackers	4	4
	Quite	
Pated AC Active Power	29,900 W	40,000 W
Rated AC Active Power Max. AC Apparent Power	29,900 W 29,900 VA	40,000 W 44,000 VA
Rated Output Voltage		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	3%
	Duratas	tion.
	Protection Yes	
nput-side Disconnection Device	Yes	
Anti-islanding Protection AC Overcurrent Protection	Yes	
DC Reverse-polarity Protection	Yes	
PV-array String Fault Monitoring	Yes	
DC Surge Arrester	Yes	
AC Surge Arrester	Yes	
DC Insulation Resistance Detection	Yes	
Residual Current Monitoring Unit	Yes	
Arc Fault Protection	Yes Yes	
Ripple Receiver Control ntegrated PID Recovery ³	Yes	
	Commun	ication
Display	LED Indicators, Integrated WLAN + APP	
RS485	Yes WLAN/Fast Ethernet via Smart EEDongleA-05 (Optional)	
Communication	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)	
Veight (with Mounting Plate) Nosie Level	43 kg (94.8 lb) < 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	
Fopology Nighttime Power Consumption	Transformerless ≤5.5W	
	≤5.	
	Optimizer Co	mpatibility
Compatible Optimizer		450-P2, MERC-1100/1300W-P ⁴
	Standard Compliance (mo	ore available upon request)
Safety	RCM, IEC 62109 -1, IEC 62109 -2, AS/NZS 60947.3:2015	
Grid Connection Standards	AS/NZS 4777.2:20	020, AS/NZS 4777.2:2015

The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.
 Any DC input voltage beyond the operating voltage range may result in inverter improper operating.
 Any DC input voltage beyond the operating voltage range may result in inverter improper operating.
 ESOLAR-29.9/40KTL-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)
 Please consult the suppliers for the specifications of the optimizer paining.