

Smart Three Phase Hybrid Inverter



Active Safety

AI Powered
Active Arcing Protection



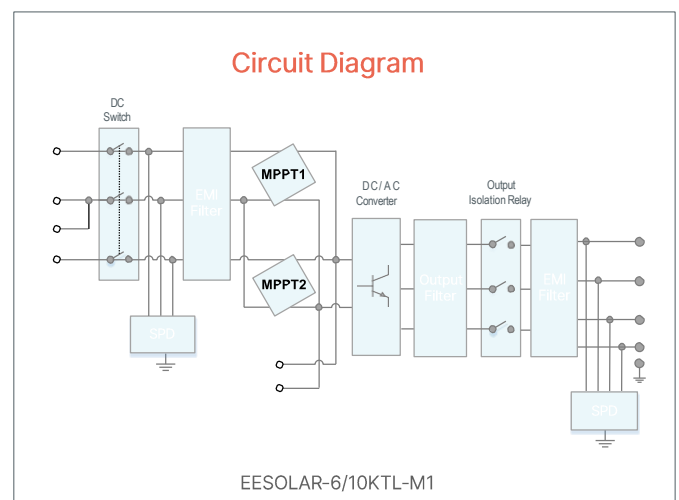
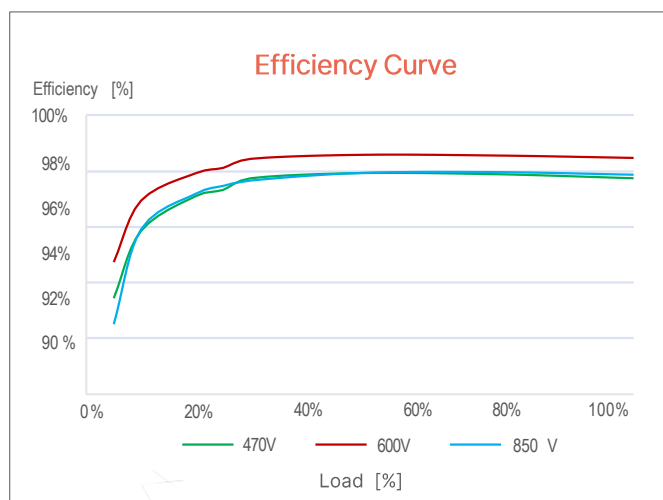
Higher Yields

Up to 30% More Energy
with Full Optimizer



Flexible Communication

WLAN, Fast Ethernet



Technical Specification		EESOLAR-6KTL-M1	EESOLAR-10KTL-M1
Efficiency			
Max. Efficiency	98.6%		98.6%
European Weighted Efficiency	97.7%		98.1%
Input (PV)			
Recommended Max. PV Power	9,000 W p		15,000 W p
Max. Input Voltage ¹	1,100 V		
Operating Voltage Range ²	140 V ~ 980 V		
Start-up Voltage	200 V		
Rated Input Voltage	600 V		
Max. Input Current per MPPT Max. Input Current per MPPT	13.5 A		
Max. Short-circuit Current	19.5 A		
Number of MPP Trackers Number of MPP trackers	2		
Max. Number of Inputs	2		
Input (DC Battery)			
Compatible Battery	EESTORE Battery System 5kW h – 30kW h		
Max Number of Connected Battery	2		
Operating Voltage Range	600 V ~ 980 V		
Max Operating Current	16.7 A		
Max Charge Power	10,000 W		
Max Discharge Power	6,000 W	10,000 W	
Output			
Grid Connection	Three-phase		
Rated Output Power	6,000 W	10,000 W	
Rated AC Apparent Power	6,000 VA	10,000 VA	
Max. Apparent Power	6,600 VA	11,000 VA	
Rated Output Voltage	230 Vac / 400 Vac, 3W / N+PE		
Rated AC Grid Frequency	50 Hz / 60 Hz		
Max. Output Current	10.1 A	16.9 A	
Adjustable Power Factor	0.8 leading ... 0.8 lagging		
Max. Total Harmonic Distortion	≤ 3 %		
Backup Power Output	Yes (via compatible Backup Box)		
Features & Protections			
Input-side Disconnection Device	Yes		
Anti-Islanding Protection	Yes		
DC Reverse Polarity Protection	Yes		
Insulation Monitoring	Yes		
DC Surge Protection	Yes, compatible with TYPE II protection class according to EN /IEC 61643-11		
AC Surge Protection	Yes, compatible with TYPE II protection class according to EN /IEC 61643-11		
Residual Current Monitoring	Yes		
AC Overcurrent Protection	Yes		
AC Short-circuit Protection	Yes		
AC Overvoltage Protection	Yes		
Arc Fault Protection	Yes		
Ripple Receiver Control	Yes		
Integrated PID Recovery ³	Yes		
Battery Reverse Charging from Grid	Yes		
General Data			
Operating Temperature Range	-25 ~ + 60 °C (-13 °F ~ 140 °F)		
Relative Operating humidity	0 % RH ~ 100 % RH		
Operating Altitude	0 ~ 4,000 m (13,123 ft.) (Derating above 2000m)		
Cooling	Natural convection		
Display	LED Indicators; Integrated WLAN + App		
Communication	RS 485; WLAN/Fast ethernet via EEDongleA-05;		
Weight (incl. Mounting Bracket)	17 kg (37.5 lb)		
Dimension (incl. Mounting Bracket)	525 x 470 x 146.5 mm (20.7 x 18.5 x 5.8 inch)		
Degree of Protection	IP 65		
Country of Manufacture	China		
Optimizer Compatibility			
Compatible Optimizer	SUN2000-600W-P/SUN2000-450-P2 ⁴		
Standard Compliance (more available upon request)			
Safety	RCM, IEC 62109 -1, IEC 62109 -2, AS/NZS 60947.3:2015		
Grid Connection Standards	AS/NZS 4777.2:2020, AS/NZS 4777.2:2015		

^{*1} The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter. Please limit input voltage to maximum 600V dc for residential application according to AS 4777.1 2016.

^{*2} Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

^{*3} EESOLAR-6/10KTL-M1 raises potential between PV- and ground o above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include P-type (mono, poly).

^{*4} Please consult the suppliers for the specifications of the optimizer pairing.