

Smart Single Phase Hybrid Inverter



Active Safety

AI Powered
Active Arcing Protection



Higher Yields

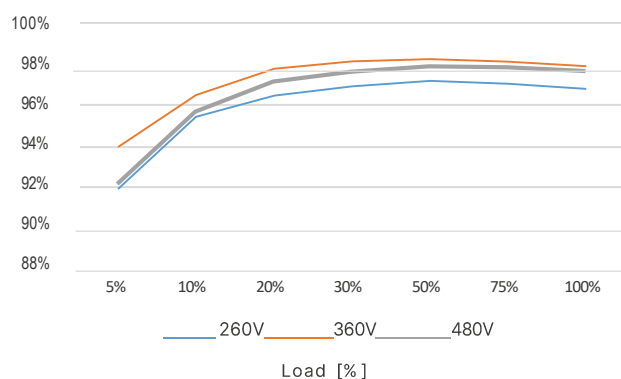
Up to 30% More
Energy with Optimizer



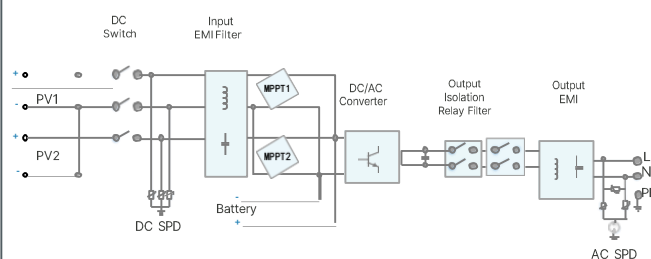
Flexible Communication

WLAN, Fast Ethernet

Efficiency Curve



Circuit Diagram



EESOLAR-5/6KTL-L1

Technical Specification		EESOLAR-5KTL-L1	EESOLAR-6KTL-L1
Efficiency			
Max. Efficiency	98.4 %		98.4 %
European Weighted Efficiency	97.8 %		97.8 %
Input (PV)			
Recommended Max. PV Power	7,500 Wp		9,000 Wp
Max. Input Voltage		600 V	
Start-up Voltage		100 V	
MPPT Operating Voltage Range		90 V – 560 V	
Rated Input Voltage		360 V	
Max. Input Current Per MPPT		12.5 A	
Max. Short-circuit Current		18 A	
Number of MPP Trackers		2	
Max. Number of Inputs		2	
Input (DC Battery)			
Compatible Battery	EESTORE Battery System 5kWh – 30kWh		
Operating Voltage Range	350 ~ 560 V dc		
Max Operating Current	15 A		
Max Charge Power	5,000 W ¹		
Max Discharge Power	5,000 W		5,000 W
Output			
Grid Connection	Single phase		
Rated AC Active power	5,000 W		6,000 W
Rated AC Apparent Power	5,000 VA		6,000 VA
Max. Apparent Power	5,000 VA		6,000 VA
Rated Output Voltage	220 V ac / 230 V ac / 240 V ac		
Rated AC Grid Frequency	50 Hz / 60 Hz		
Max. Output Current	21.7 A		27.3 A
Adjustable Power Factor	0.8 leading ... 0.8 lagging		
Max. Total Harmonic Distortion	≤ 3 %		
Backup Power Output	Yes (via compatible Backup Box)		
Protection & Feature			
Anti-Islanding Protecting	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		
Over-heat Protection	Yes		
Arc Fault Protection	Yes		
Battery Reverse Charging From Grid	Yes		
General Data			
Operating Temperature Range	-25 ~ +60 °C (Derating above 45 °C @ Rated output power)		
Relative Operating Humidity	0 % RH ~ 100 % RH		
Operating Altitude	0 ~ 4,000 m (Derating above 2,000 m)		
Cooling	Natural convection		
Display	LED indicators; integrated WLAN + APP		
Communication	RS485, WLAN via inverter built-in WLAN module Ethernet via EEDongleA-05 (Optional);		
Weight (incl. Mounting Bracket)	12.0 kg (26.5 lb)		
Dimension (incl. Mounting Dimension and Mounting Bracket)	365mm * 365mm * 156mm (14.4 x 14.4 x 6.1 inch)		
Degree of Protection	IP 65		
Country of Manufacture	China		
Optimizer Compatibility			
Compatible Optimizer	SUN2000-600W-P/SUN2000-450-P2 ²		
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 2,500W @ 5kWh EESTORE Battery System.

² Please consult the suppliers for the specifications of the optimizer pairing.