

Smart PV Inverter + Storage for On-Grid and Backup Usage

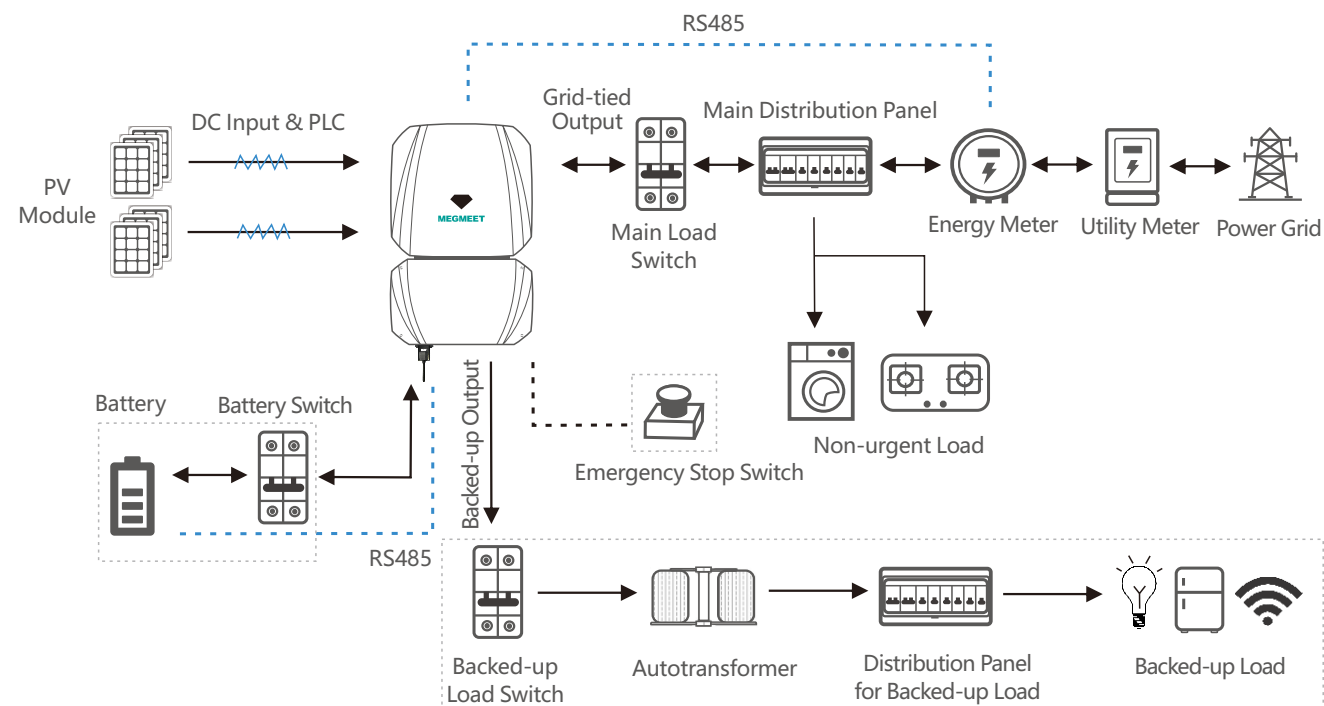
MGS3.8KTL-US / MGS7.6KTL-US



Product Features

- 3 MPPT trackers, wider input voltage range
- Full body die-cast molding to adapt to harsh environments
- Superior quality guarantees a longer life cycle
- Provides back-up AC during grid loss
- Protection Level: NEMA Type 4X, natural cooling
- Built-in arc fault protection and module-level rapid shutdown
- For NEC 2014 and 2017
- Provides scheduled battery usage

Residential Energy Management System



Technical Parameters

Model	MGS3.8KTL-US	MGS7.6KTL-US	Units
DC Input - PV + Battery (opt.)			
Maximum DC Power	5900	11800	W
Max. Input Voltage	500		V
Start-Up Voltage	120		V
Full Power MPPT Voltage Range	260-400		V
MPPT Voltage Range	85-480		V
Max. Input Current (Each input)	11		A
Number of Inputs	2	3	
Supported Battery Types	Consult your local sales office		
2-Pole Disconnection	Yes		
DC Fuse Rating on Plus and Minus Inputs	12		A
AC Output			
AC Nominal Power	3 KW @ 208 V 3.3 KW @ 240 V	6.6 KW @ 208 V 7.6 KW @ 240 V	
Max. Output Current	16	32	A
AC Line Voltage	208 / 240		V
AC Grid Frequency	60		Hz
Power Factor (cos φ)	0.8 leading - 0.8 lagging		
Harmonics	< 3%		
Max. Efficiency	97.5%	97.6%	
CEC Weighted Efficiency	96.8%	97.0%	
Typical Battery Efficiency (Full Cycle)	94.0%		
	< 2.5		W
Transformerless, Ungrounded	Yes		
DC Reverse-Polarity Protection	Yes		
Ground-Fault Isolation Detection	Yes		
AFCI Compliant To UL 1699B	Yes, Compliant To UL 1699B Type I		
Anti-Islanding Protection	Yes		
DC And AC Surge Arrester	Yes		
Residual Current Detection	Yes		
DC And AC Disconnect Device	Yes		
General Data			
Dimension (W/H/D)	15.8 / 26.8 / 8.5		in
	402 / 681 / 216		mm
Weight With Connection Unit	< 52 / 24		lb / kg
Display	LED Indicators		
Protection Rating	NEMA TYPE 4X		
Operating Temperature Range	-25 ~ +60°C / -13 ~ +140°F		
AC Output (Main) Conduit Size / AWG Range	1" / 14-6AWG		
AC Output (Backed-up) Conduit Size / AWG Range	0.75-1" Knockouts / 14-6 AWG		
DC Input (PV) Conduit Size / # of Strings / AWG Range	0.75" / 2 Strings / 14-8 AWG	0.75" / 3 Strings / 14-8 AWG	
DC Input (Battery) Conduit Size / AWG Range	0.75" / 16-10 AWG		
Cooling Concept	Natural Convection		
Noise Emission (@ 1m)	< 25	< 30	dBA
Humidity	0-95%, Non-Condensing		
Communication Interfaces	RS485, RS485 for Battery		
Megmeet Communication Module (Optional)	Wi-Fi, GPRS		
Standard Warranty	5 years standard, 10 years optional		