

GOODWE

EO Series

3.5/6kW | Single Phase | 1 MPPT
Off-grid Inverter

The GoodWe EO Series off-grid inverter is the ideal solution for those living in areas without power grids or experiencing frequent power outages. Its robust design guarantees durability even in harsh conditions, while the user-friendly setup minimizes installation costs. The inverter integrates dry contacts that can be connected to control loads and a generator, optimizing energy consumption and extending backup duration. It can operate with or without batteries and also allows multiple inverters to connect to a single battery system. Additionally, parallel connection is supported for expanded system capacity.



Integrated dry contacts for generator and load control



Compatible with lithium and lead-acid batteries



3-phase capability



Supports up to 3 units in parallel (10.5/18kW)

Technical Data		GW3500L-EO	GW6000-EO
Battery Input			
Battery Type		Lithium / Lead-acid	
Nominal Battery Voltage (V)		48	
Battery Voltage Range (V)		40 ~ 60	
Start-up Voltage (V)		36	
Number of Battery Input		1	
Max. Continuous Charging Current (A)		120	
Max. Continuous Discharging Current (A)	78		140
Max. Charging Power (W)		6000	
Max. Discharging Power (W)	3900		6700
PV Input			
Max. Input Power (W)	5250		9000
Max. Input Voltage (V)		500	
MPPT Operating Voltage Range (V)		120 ~ 450	
Start-up Voltage (V)		120	
Nominal Input Voltage (V)		360	
Max. Input Current per MPPT (A)		30	
Max. Short Circuit Current per MPPT (A)		37.5	
Number of MPP Trackers		1	
Number of Strings per MPPT		2	
AC input			
Max. Apparent Power from Utility Grid (VA)	4445		8050
Nominal Input Voltage (V)	127		220 / 230
Input Voltage Range (V)	90 ~ 165		90 ~ 280
Nominal Input Frequency (Hz)		50 / 60	
Input Frequency Range (Hz)		45 ~ 65	
Max. AC Current from Utility Grid (A)		35	
AC Output			
Nominal Apparent Power (VA)	3500		6000
Nominal Output Power (W)	3500		6000
Max. Output Apparent Power (VA)	3500 (7000 at 5sec)		6000 (12000 at 5sec)
Nominal Power at 40°C (W)	3500		6000
Max. Power at 40°C (Including AC Overload) (W)	3500		6000
Max. Output Current (A)	27.6 (55.2 at 5sec)		27.6 (52.2 at 5sec)
Nominal Output Voltage (V)	127		220 / 230
Nominal Output Frequency (Hz)		50 / 60	
Output THDv (@Linear Load)		<3%	
Transfer time		<10ms typical; <20ms Max	
AC Data (Generator)			
Nominal Apparent Power from AC generator (VA)	3500		6000
Max. Apparent Power from AC generator (VA)	4445		8050
Nominal Input Voltage (V)	127		220 / 230
Input Voltage Range (V)	90 ~ 165		90 ~ 280
Nominal AC generator Frequency (Hz)		50 / 60	
AC generator Frequency Range (Hz)		45 ~ 65	
Max. AC Current From AC generator (A)		35	
Nominal AC Current From AC generator (A)	27.6		26.1
Efficiency			
Max. Efficiency	≥94.2%		≥97.0%
European Efficiency	≥91.5%		≥96.5%
Max. Battery to AC Efficiency	≥91.9%		≥95.0%
MPPT Efficiency		≥99.5%	
Protection			
PV String Current Monitoring		Integrated	
PV Insulation Resistance Detection		Integrated	
Residual Current Monitoring		Integrated	
Battery Reverse Polarity Protection		Integrated	
AC Overcurrent Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
DC Surge Protection		Type III	
AC Surge Protection		Type III	
AFCI	Integrated		Optional
General Data			
Operating Temperature Range (°C)		-10 ~ +60	
Relative Humidity		5 ~ 95% (Non-condensing)	
Max. Operating Altitude (m)		<2000	
Cooling Method		Smart Fan Cooling	
User Interface		LED, LCD, USB, RS485, Dry-contact, WLAN + APP	
Communication with BMS		RS485, CAN	
Communication with Portal		WiFi / LAN / BLU	
Weight (kg)		13	
Dimension (W × H × D mm)		400 × 495 × 130	
Topology		PV: Non-isolated; BAT:isolated	
Self-consumption at Night (W)		15	
No Load Power Consumption		≤30	
Ingress Protection Rating		IP21	
Mounting Method		Wall Mounted	

*: Please visit GoodWe website for the latest certificates.