GOODWE

EO G2 Series 3-6kW

Single Phase | Off-grid Inverter

Power Flows, Value Grows



-35°C to 60°C
Operation
Harsh Environment Ready

IP66
Protection
Stable performance for long-lasting power



200% PV Oversizing
Lower CAPEX higher ROI



4.3" Touchscreen
Easy setup and quick on-site operation



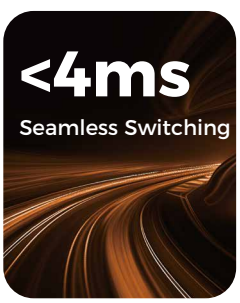
Built-in **GFCI**
Enhanced electrical safety



Whole-Home Backup



<4ms
Seamless Switching



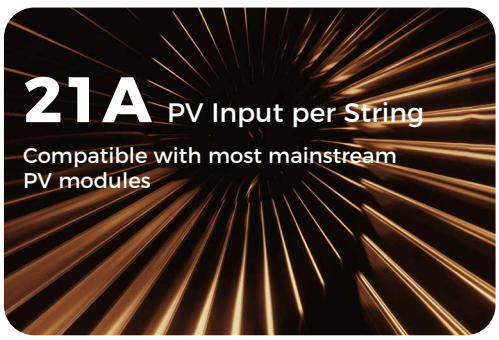
98.6%
Max Efficiency



Built-in
bluetooth & WiFi



21A PV Input per String
Compatible with most mainstream PV modules



EO G2 Series

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Technical Data	GW3K-EO-G20	GW3.6K-EO-G20	GW5K-EO-G20	GW6K-EO-G20
Battery Side				
Battery Type	Li-Ion / Lead-acid			
Nominal Voltage (V)	48			
Voltage Range (V)	40 ~ 60			
Start-up Voltage (V)	44.2			
Number of Battery Inputs	1			
Max. Continuous Charging Current (A)	70	90	120	130
Max. Continuous Discharging Current (A)	70	90	120	130
Max. Charging Power (kW)	3.0	3.6	5.0	6.0
Max. Discharging Power (kW)	3.3	4.0	5.5	6.6
PV Side				
Max. Input Power (kW)	6.0	7.2	10.0	12.0
Max. Input Voltage (V)*1	530			
MPPT Operating Voltage Range (V)*2	50 ~ 480			
Start-up Voltage (V)	60			
Nominal Input Voltage (V)	360			
Max. MPPT Current (A)	21	21	21 / 21	21 / 21
Max. MPPT Short Circuit Current (A)	26	26	26 / 26	26 / 26
Number of MPPTs	1	1	2	2
Number of Strings per MPPT	1			
AC Side (On-Grid)				
Nominal Power (kW)	3.0	3.6	5.0	6.0
Max. Power (kW)	3.3	4.0	5.5	6.6
Rated Apparent Power from Grid (kVA)	3.0	3.6	5.0	6.0
Max. Apparent Power from Grid (kVA)	8.0			
Nominal Voltage (V)	220 / 230, L / N / PE			
Voltage Range (V)	170 ~ 280			
Nominal Frequency (Hz)	50 / 60			
Frequency Range (Hz)	45 ~ 55 / 55 ~ 65			
Rated Current from Grid (A)	13.7@220V; 13.1@230V	16.4@220V; 15.7@230V	22.8@220V; 21.8@230V	27.3@220V; 26.1@230V
Max. Current from Grid (A)	35			
Power Factor	0.8 leading~0.8 lagging			
THDi	<3%			
AC Side (Back-up Port)				
Rated Apparent Power (kVA)	3.0	3.6	5.0	6.0
Max. Apparent Power (kVA)	Off-grid: 3.3 (7.2, 10s) On-grid: 8	Off-grid: 4 (7.2, 10s) On-grid: 8	Off-grid: 5.5 (12, 10s) On-grid: 8	Off-grid: 6.6 (12, 10s) On-grid: 8
Nominal Voltage (V)	220 / 230, L / N / PE			
Nominal Frequency (Hz)	50 / 60			
Max. Current (A)*3	Off-grid: 15; On-grid: 35	Off-grid: 18; On-grid: 35	Off-grid: 25; On-grid: 35	Off-grid: 30; On-grid: 35
THDv (@Linear Load)	<3%			
On / Off-grid Switching Time (ms)	≤4			
AC Side (Smart Port)				
Max. Apparent Power (kVA)	8			
Nominal Voltage (V)	220 / 230			
Nominal Frequency (Hz)	50 / 60			
Frequency Range (Hz)	45 ~ 55 / 55 ~ 65			
Max. Current (A)	35			
Efficiency				
Max. Efficiency	98.6%			
European Efficiency	96.8%			
MPPT Efficiency	99.9%			
Protection				
PV String Current Monitoring	Integrated			
PV Insulation Resistance Detection	Integrated			
Residual Current Monitoring	Integrated			
PV Reverse Polarity Protection	Integrated			
Anti-islanding Protection	Integrated			
AC Overcurrent Protection	Integrated			
AC Short Circuit Protection	Integrated			
AC Overvoltage Protection	Integrated			
DC Surge Protection	Type III			
AC Surge Protection	Type II			
General Data				
Operating Temperature Range (°C)	-35 ~ +60			
Relative Humidity	0 ~ 95%			
Max. Operating Altitude (m)	3000			
Cooling Method	Natural Cooling	Natural Cooling	Smart Fan Cooling	Smart Fan Cooling
User Interface	LCD, WLAN + APP			
Communication with BMS	CAN			
Communication	RS485, WiFi + bluetooth			
Communication Protocols	Modbus-RTU			
Weight (kg)	<13			
Dimension (W × H × D mm)	337 × 456 × 201			
Ingress Protection Rating	IP66			
Mounting Method	Wall Mounted			

*1: When the input voltage is greater than 500V, the inverter will enter standby mode, and when the voltage returns to below 490V the inverter will return to normal operation.
*2: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.
*: Please visit GoodWe website for the latest certificates.

GoodWe-Single page-20260702-EN-V2.1 Information may be subject to change without notice during product improving.