GOODWE

ET G3 Series 25-50kW

Three Phase Hybrid Inverter (HV)

Smarter Energy. Ready for More.

*1: New Features on the Way. Coming Soon in Selected Regions.

*2: Tested with the grid circuit open.

ET G3 Series

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Technical Data	GW25K-ET-G30	GW29.999K-ET-G30	GW30K-ET-G30	GW37.5K-ET-G30	GW40K-ET-G30	GW49.999K-ET-G30	GW50K-ET-G30	GW18K-ET-L-G30	GW25K-ET-L-G30	GW30K-ET-L-G30
Battery Side										
Battery Type	LFP ($LiFePO_4$)									
Nominal Voltage (V)	720							430		
Voltage Range (V)	150 ~ 950							150 ~ 650		
Start-up Voltage (V)	150									
Number of Battery Inputs	2									
Max. Continuous Charging Current (A)	80 / 80			100 / 100				80 / 80	100 / 100	
Max. Continuous Discharging Current (A)	80 / 80			100 / 100				80 / 80	100 / 100	
Max. Charging Power (kW)	25	30	30	37.5	40	50	50	18	25	30
Max. Discharging Power (kW)	27.5	33	33	41.3	44	55	55	19.8	27.5	33
PV Side										
Max. Input Power (kW)	50	60	60	75	80	100	100	36	50	60
Max. Input Voltage (V)[*1]	1000							850		
MPPT Operating Voltage Range (V)[*2]	120 ~ 970							120 ~ 650		
Start-up Voltage (V)	160									
Nominal Input Voltage (V)	750							460		
Max. MPPT Current (A)	42 / 42 / 42			42 / 42 / 42 / 42		42 / 42 / 42 / 42 / 42		42 / 42 / 42	42 / 42 / 42 / 42	42 / 42 / 42 / 42 / 42
Max. MPPT Short Circuit Current (A)	52	52	52	52	52	52	52	52	52	52
Number of MPPTs	3	3	3	4	4	5	5	3	4	5
Number of Strings per MPPT	2 / 2 / 2			2 / 2 / 2 / 2		2 / 2 / 2 / 2 / 2		2 / 2 / 2	2 / 2 / 2 / 2	2 / 2 / 2 / 2 / 2
AC Side (Grid Port)										
Rated Power (kW)	25	29.999	30	37.5	40	49.999	50	18	25	30
Max. Power (kW)	25	29.999	30	37.5	40	49.999	50	18	25	30
Rated Power at 40°C (kW)	25	29.999	30	37.5	40	49.999	50	18	25	30
Max. Power at 40°C (kW)	25	29.999	30	37.5	40	49.999	50	18	25	30
Rated Apparent Power from Grid (kVA)	25	29.999	30	37.5	40	49.999	50	18	25	30
Rated Apparent Power to Grid (kVA)	25	29.999	30	37.5	40	49.999	50	18	25	30
Max. Apparent Power to Grid (kVA)	25	29.999	30	37.5	40	49.999	50	18	25	30
Max. Apparent Power from Grid (kVA)	52.8 @ 380V 55.2 @ 400V 57.6 @ 415V	52.8 @ 380V 55.2 @ 400V 57.6 @ 415V	52.8 @ 380V 55.2 @ 400V 57.6 @ 415V	105.6 @ 380V 110.4 @ 400V 115.2 @ 415V	105.6 @ 380V 110.4 @ 400V 115.2 @ 415V	105.6 @ 380V 110.4 @ 400V 115.2 @ 415V	105.6 @ 380V 110.4 @ 400V 115.2 @ 415V	28.8 @ 208V 30.5 @ 220V	57.6 @ 208V 61.0 @ 220V	57.6 @ 208V 61.0 @ 220V
Nominal Voltage (V)	220 / 380, 230 / 400, 240 / 415, 3L / N / PE							120 / 208, 127 / 220, 3L / N / PE or 3L / PE		
Voltage Range (V)	150 ~ 280 (According to local standard)							90 ~ 168 (According to local standard)		
Nominal Frequency (Hz)	50 / 60							60		
Frequency Range (Hz)	45 ~ 55 / 55 ~ 65							55 ~ 65		
Rated Current from Grid (A)	37.9 @ 380V 36.3 @ 400V 34.8 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	56.9 @ 380V 54.4 @ 400V 52.1 @ 415V	60.7 @ 380V 58.0 @ 400V 55.6 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	50.0 @ 208V 47.3 @ 220V	69.5 @ 208V 65.7 @ 220V	83.4 @ 208V 78.8 @ 220V
Rated Current to Grid (A)	37.9 @ 380V 36.3 @ 400V 34.8 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	56.9 @ 380V 54.4 @ 400V 52.1 @ 415V	60.7 @ 380V 58.0 @ 400V 55.6 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	50.0 @ 208V 47.3 @ 220V	69.5 @ 208V 65.7 @ 220V	83.4 @ 208V 78.8 @ 220V
Max. Current from Grid (A)	80	80	80	160	160	160	160	80	160	160
Max. Current to Grid (A)	37.9 @ 380V 36.3 @ 400V 34.8 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	56.9 @ 380V 54.4 @ 400V 52.1 @ 415V	60.7 @ 380V 58.0 @ 400V 55.6 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	50.0 @ 208V 47.3 @ 220V	69.5 @ 208V 65.7 @ 220V	83.4 @ 208V 78.8 @ 220V
Power Factor	0.8 lagging ~ 0.8 leading									
THDi	<3%									

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Technical Data	GW25K-ET-G30	GW29.999K-ET-G30	GW30K-ET-G30	GW37.5K-ET-G30	GW40K-ET-G30	GW49.999K-ET-G30	GW50K-ET-G30	GW18K-ET-L-G30	GW25K-ET-L-G30	GW30K-ET-L-G30
AC Side (Back-up Port)										
Rated Apparent Power (kVA)	25	29.999	30	37.5	40	49.999	50	18	25	30
Max. Apparent Power (kVA)*3	Off-grid: 27.5 (37.5, 10s) On-grid: 55.2	Off-grid: 33 (45, 10s) On-grid: 55.2	Off-grid: 33 (45, 10s) On-grid: 55.2	Off-grid: 41.3 (56.3, 10s) On-grid: 110.4	Off-grid: 44 (60, 10s) On-grid: 110.4	Off-grid: 55 (75, 10s) On-grid: 110.4	Off-grid: 55 (75, 10s) On-grid: 110.4	Off-grid: 19.8 (27, 10s) On-grid: 30.5	Off-grid: 27.5 (37.5, 10s) On-grid: 61.0	Off-grid: 33 (45, 10s) On-grid: 61.0
Nominal Voltage (V)	220 / 380, 230 / 400, 240 / 415, 3L / N / PE							120 / 208, 127 / 220, 3L / N / PE or 3L / PE		
Nominal Frequency (Hz)	50 / 60							60		
Rated Current (A)	37.9 @ 380V 36.3 @ 400V 34.8 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	45.5 @ 380V 43.5 @ 400V 41.7 @ 415V	56.9 @ 380V 54.4 @ 400V 52.1 @ 415V	60.7 @ 380V 58.0 @ 400V 55.6 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	75.8 @ 380V 72.5 @ 400V 69.5 @ 415V	50.0 @ 208V 47.3 @ 220V	69.5 @ 208V 65.7 @ 220V	83.4 @ 208V 78.8 @ 220V
Max. Current (A)*3	Off-grid: 50.0 (56.9, 10s) On-grid: 80	Off-grid: 50.0 (68.2, 10s) On-grid: 80	Off-grid: 50.0 (68.2, 10s) On-grid: 80	Off-grid: 83.4 (85.4, 10s) On-grid: 160	Off-grid: 83.4 (91.0, 10s) On-grid: 160	Off-grid: 83.4 (113.7, 10s) On-grid: 160	Off-grid: 83.4 (113.7, 10s) On-grid: 160	Off-grid: 52.0 (71.0, 10s) On-grid: 80	Off-grid: 86.7 (98.6, 10s) On-grid: 160	Off-grid: 86.7 (118.2, 10s) On-grid: 160
THDv (@Linear Load)	<3%									
On / Off-grid Switching Time (ms)*4	0									
AC Side (Smart Port)										
Max. Apparent Power (kVA)	27.5	33	33	41.3	44	55	55	19.8	27.5	33
Nominal Voltage (V)	220 / 380, 230 / 400, 240 / 415, 3L / N / PE							120 / 208, 127 / 220, 3L / N / PE or 3L / PE		
Nominal Frequency (Hz)	50 / 60							60		
Frequency Range (Hz)	45 ~ 55 / 55 ~ 65							55 ~ 65		
Max. Current (A)	41.7	50	50	62.5	66.7	83.4	83.4	52	72.3	86.7
Efficiency										
Max. Efficiency	97.9%	97.9%	97.9%	98.0%	98.0%	98.0%	98.0%	96.8%	97.5%	97.5%
European Efficiency	97.2%	97.2%	97.2%	97.2%	97.2%	97.2%	97.2%	96.0%	96.7%	96.7%
Max. Battery to AC Efficiency	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	97.8%	96.7%	97.5%	97.5%
MPPT Efficiency	99.9%									
Protection										
PV String Current Monitoring	Integrated (Optional)	Integrated	Integrated (Optional)	Integrated (Optional)	Integrated (Optional)	Integrated	Integrated (Optional)	Integrated (Optional)	Integrated (Optional)	Integrated (Optional)
PV Insulation Resistance Detection	Integrated									
Residual Current Monitoring	Integrated									
PV Reverse Polarity Protection	Integrated									
Battery Reverse Polarity Protection	Integrated									
Anti-islanding Protection	Integrated									
AC Overcurrent Protection	Integrated									
AC Short Circuit Protection	Integrated									
AC Overvoltage Protection	Integrated									
DC Switch	Integrated									
DC Surge Protection	Type II (Type I + II Optional)			Type II	Type II (Type I + II Optional)			Type II		
AC Surge Protection	Type II									
Emergency Power Off	Integrated									
Remote Shutdown	Integrated									
AFCI	Optional									
Rapid Shutdown	Optional									
General Data										
Operating Temperature Range (°C)	-35 ~ +60									
Relative Humidity	0 ~ 100%									
Max. Operating Altitude (m)	4000									
Cooling Method	Smart Fan Cooling									
User Interface	LED, LCD (Optional), WLAN + APP									
Communication with BMS	CAN									
Communication	RS485, WiFi + LAN + Bluetooth, 4G+Bluetooth (Optional)									
Communication Protocols	Modbus-RTU (SunSpec Compliant), Modbus-TCP									
Weight (kg)	61.5	61.5	61.5	71	71	71	71	61.5	71	71
Dimension (W × H × D mm)	651 × 876 × 303									
Noise Emission (dB)	<45	<45	<45	<50	<50	<50	<50	<45	<50	<50
Ingress Protection Rating	IP66									
Mounting Method	Wall Mounted									

*1: When the input voltage is between 970V and 1000V or between 650V and 850V, the inverter will enter standby mode. When the voltage returns to 970V or 650V, the inverter will resume normal operation.
*2: Please refer to the user manual for the MPPT Voltage Range at nominal Power.
*3: The maximum output current under off-grid conditions takes into account the maximum three-phase imbalance capacity of 110%. The standard voltage model is calculated based on a phase voltage of 230V, and the low voltage model is calculated based on a phase voltage of 127V.
*4: Test conditions: under grid open-circuit conditions, the inverter's rated power is greater than the total load power.
*: Please visit GoodWe website for the latest certificates.