



ET LV Series

6-20kW | Three phase | 2/3/4 MPPTs
Hybrid inverter

The GoodWe ET LV Series inverter (6-20kW) is ideal for residential PV systems, offering seamless integration with low-voltage (48V) batteries. Designed for flexibility, it supports a wide range of battery capacities and brands, including GoodWe's own Lynx A G3, Lynx U G3, and BAT 14kWh low-voltage batteries-making it a versatile choice for homeowners seeking reliable energy storage solutions.



High Performance

- 20A per string & 200% PV oversizing
- Dual independent battery inputs with 416A



Smart Control & Monitoring

- Seamless switching < 4ms
- Generator compatibility and charge for battery



Superb Safety & Reliability

- AI-driven AFCI optional¹
- Type II SPD on both DC&AC sides
- IP66 ingress protection



Flexible & Adaptable Applications

- Unbalanced output up to 150%
- Compatible with both Lithium and lead-acid batteries



Technical Data	GW6K-ET-L-G10	GW8K-ET-L-G10	GW10K-ET-L-G10	GW12K-ET-L-G10	GW12K-ET-LL-G10	GW15K-ET-L-G10	GW20K-ET-L-G10
Battery Input Data							
Battery Type	Li-Ion & Lead-acid						
Nominal Battery Voltage (V)	48						
Battery voltage range (V)	40 ~ 60						
Number of Battery Input	1	1	1	1	1	2	2
Max. Continuous Charging Current (A)	135	175	220	250	250	165 / 165	208 / 208
Max. Continuous Discharging Current (A)	135	175	220	250	250	165 / 165	208 / 208
Max. Charging Power (W)	6000	8000	10000	12000	12000	15000	20000
Max. Discharging Power (W)	6600	8800	11000	13200	13200	16500	22000
PV String Input Data							
Max. Input Power (W)	12000	16000	20000	24000	24000	30000	40000
Max. Input Voltage (V)	1000						
MPPT Operating Voltage Range (V)	150 ~ 850						
Start-up Voltage (V)	180						
Nominal Input Voltage (V)	620						
Max. Input Current per MPPT (A)	20 / 20	20 / 20	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20	20 / 20 / 20 / 20	20 / 20 / 20 / 20
Max. Short Circuit Current per MPPT (A)	26 / 26	26 / 26	26 / 26 / 26	26 / 26 / 26	26 / 26 / 26	26 / 26 / 26 / 26	26 / 26 / 26 / 26
Number of MPP Trackers	2	2	3	3	3	4	4
Number of Strings per MPPT	2 / 1 + 1	2 / 1 + 1	3 / 1 + 1 + 1	3 / 1 + 1 + 1	3 / 1 + 1 + 1	4 / 1 + 1 + 1 + 1	4 / 1 + 1 + 1 + 1
AC Output Data (On-grid)							
Nominal Output Power (W)	6000	8000	10000	12000	12000	15000	20000
Nominal Apparent Power Output to Utility Grid (VA)	6000	8000	10000	12000	12000	15000	20000
Max. Apparent Power Output to Utility Grid (VA)	6600	8800	11000	13200	13200	16500	22000
Max. Apparent Power from Utility Grid (VA)	31050	31050	31050	31050	26670	48300	48300
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			220 / 127, 3L / N / PE		400 / 380, 3L / N / PE	
Output Voltage Range (V)				170 ~ 290			
Nominal AC Grid Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	60	50 / 60	50 / 60
AC Grid Frequency Range (Hz)	45 ~ 65	45 ~ 65	45 ~ 65	45 ~ 65	55 ~ 65	45 ~ 65	45 ~ 65
Max. AC Current Output to Utility Grid @230V (A)	9.6	12.8	15.9	19.1	33.1	23.9	31.9
Max. AC Current Output to Utility Grid @220V (A)	10	13.4	16.7	20	34.6	25	33.3
Max. AC Current From Utility Grid (A)	45	45	45	45	70	70	70
Power Factor	~1 (Adjustable from 0.8 leading~0.8 lagging)						
Max. Total Harmonic Distortion	<3%						
AC Output Data (Back-up)							
Back-up Nominal Apparent Power (VA)	6000	8000	10000	12000	12000	15000	20000
Max. Output Apparent Power without Grid (VA)	6600 (12000@10s)	8800 (16000@10s)	11000 (20000@10s)	13200 (24000@10s)	13200 (24000@10s)	16500 (30000@10s)	22000 (40000@10s)
Max. Output Apparent Power with Grid (VA)	31050	31050	31050	31050	26670	48300	48300
Max. Output Current (A)	10	13.3	16.7	20	34.6	25	33.3
Nominal Output Voltage (V)	400 / 380, 3L / N / PE			220, 3L / N / PE		400 / 380, 3L / N / PE	
Nominal Output Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	60	50 / 60	50 / 60
AC Data (Generator)							
Nominal Apparent Power from AC generator (VA)	6000	8000	10000	12000	12000	15000	20000
Max. Apparent Power from AC generator (VA)	6000	8000	10000	12000	12000	15000	20000
Nominal Input Voltage (V)	400 / 380	400 / 380	400 / 380	400 / 380	220	400 / 380	400 / 380
Input Voltage Range (V)	170 ~ 290						
Nominal AC generator Frequency (Hz)	50 / 60	50 / 60	50 / 60	50 / 60	60	50 / 60	50 / 60
AC generator Frequency Range (Hz)	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65	55 ~ 65	45 ~ 55 / 55 ~ 65	45 ~ 55 / 55 ~ 65
Max. AC Current From AC generator (A)	9.1	12.1	15.2	18.2	31.5	22.7	30.3
Nominal AC Current From AC generator (A)	9.1 / 8.7	12.1 / 11.6	15.2 / 14.5	18.2 / 17.4	31.5	22.7 / 21.7	30.3 / 29.0
Nominal Input Current (A)	9.1 / 8.7	12.1 / 11.6	15.2 / 14.5	18.2 / 17.4	31.5	22.7 / 21.7	30.3 / 29.0
Efficiency							
Max. Efficiency	97.8%						
European Efficiency	97.4%						
Max. Battery to AC Efficiency	95.5%						
MPPT Efficiency	99.9%						
Protection							
PV String Current Monitoring	Integrated						
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						
AC Surge Protection	Type II						
AFCI	Optional						
Rapid Shutdown	Optional						
Remote Shutdown	Integrated						
General Data							
Operating Temperature Range (°C)	-35 ~ +60						
Relative Humidity	0 ~ 95%						
Max. Operating Altitude (m)	4000						
Cooling Method	Smart Fan Cooling						
User Interface	LCD						
Communication with BMS	RS485 / CAN						
Communication with Meter	RS485						
Communication with Portal	WiFi / 4G						
Weight (kg)	47.5	47.5	47.5	47.5	47.5	52.0	52.0
Dimension (W x H x D mm)	754 x 549 x 262						
Noise Emission (dB)	<45						
Topology	Non-isolated						
Self-consumption at Night (W)	<15						
Ingress Protection Rating	IP66						
Mounting Method	Wall Mounted						

*: Please visit GoodWe website for the latest certificates.

*: All pictures shown are for reference only. Actual appearance may vary.

*: As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

