GOODWE





Smart Control & Monitoring

- · <10ms UPS-level switching
- · Multi-protocol communication



Superb Safety & Reliability

- · Type I surge protection optional*
- · Emergency shutdown



Friendly & Thoughtful Design

- · Plug & Play modularized design
- · Adjustable active, reactive power and power factort



Flexible & Adaptable Applications

- · Peak load shaving
- · 100% unbalanced load
- · Powerful off-grid overloading
- · 200~865V wide battery voltage range



Technical Data	GW50K-ETC
Battery Input Data	
Battery Type	Li-lon
Nominal Battery Voltage (V)*1	422.4 / 499.2 / 576 / 652.8
Battery Voltage Range (V)	200 ~ 865
Max. Continuous Charging Current (A)	100
Max. Continuous Discharging Current (A)	100
Max. Charging Power (kW)	50
Max. Discharging Power (kW)	55
No. of Battery Input	11
PV String Input Data	
Max. Input Power (kW)	65
Max. Input Voltage (V)	1000
MPPT Operating Voltage Range (V)	250 ~ 850
Start-up Voltage (V)	250
Nominal Input Voltage (V)	600
Max. Input Current per MPPT (A) Max. Short Circuit Current per MPPT (A)	
Number of MPP Trackers	1
Number of Strings per MPPT	 8
	-
AC Output Data (On-grid)	
Nominal Apparent Power Output to Utility Grid (kVA)	50
Max. Apparent Power Output to Utility Grid (kVA)	52.5 55
Max. Apparent Power from Utility Grid (kVA) Nominal Output Voltage (V)	400, 3L / N / PE
Output Voltage Range (V)	312 ~ 460 (AU); 318 ~ 497 (Germany)
Nominal AC Grid Frequency (Hz)	50 / 60
Max. AC Current Output to Utility Grid (A)	76
Max. AC Current From Utility Grid (A)	100
Nominal Output Current (A)	72.5
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)
Max. Total Harmonic Distortion	<3%
AC Output Data (Back-up)	
Back-up Nominal Apparent Power (kVA)	50
Max. Output Apparent Power (kVA)	55
Max. Output Current (A)	76
Nominal Output Voltage (V)	400
Nominal Output Fregency (Hz)	50 / 60
Output THDv (@Linear Load)	<3%
Efficiency	
Max. Efficiency	97.6%
European Efficiency	97.3%
Max. Battery to AC Efficiency	97.2%
MPPT Efficiency	99.9%
Protection	
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 AC Short Circuit Protection	Integrated Integrated
AC Overvoltage Protection	Integrated Integrated
DC Switch	Integrated
AC Switch	Integrated
DC Surge Protection	Type II (Type I+ II Optional)
AC Surge Protection	Type II (Type I+ II Optional)
Emergency Power Off	Integrated
Rapid Shutdown	Optional Integrated
Remote Shutdown	Integrated
General Data	
Operating Temperature Range (°C)	-20 ~ +60 (>45°C derating)
Relative Humidity	0 ~ 95% (Non-condensing)
Max. Operating Altitude (m)	4000
Cooling Method	Smart Fan Cooling
User Interface	LED, LCD, WLAN + APP
Communication with BMS	RS485 RS485
Communication with Motor	no485
Communication with Meter	RS/AS LAN / Bluetooth
Communication with Portal	RS485, LAN / Bluetooth 142
Communication with Portal Weight (kg)	142
Communication with Portal Weight (kg) Dimension (W × H × D mm)	
	142 585 x 1360 x 750 Non-isolated IP20
Communication with Portal Weight (kg) Dimension (W x H x D mm) Topology Ingress Protection Rating Overvoltage Category	142 585 × 1360 × 750 Non-isolated
Communication with Portal Weight (kg) Dimension (W x H x D mm) Topology Ingress Protection Rating	142 585 x 1360 x 750 Non-isolated IP20

^{*1:} Nominal Battery Voltage (V): With GOODWE battery model: LXC101-10: 422.4V, LXC120-10: 499.2V, LXC138-10: 576V, LXC156-10: 652.8V.
*: Please visit GoodWe website for the latest certificates.
**: Please refer to the user manual for the MPPT Voltage Range at Nominal Power.