GOODWE

ETC Series

50kW I Three phase MPPT modules I Hybrid inverter (HV)

GoodWe ETC Series is a three-phase battery storage inverter with wide battery voltage range from 200 to 865V. It follows a simple plug and play modularised design consisting of five main modules (MPPT, DC/DC, DC/AC, STS & EMS modules), which allows a more flexible and easier installation. It can switch to backup mode in less than 10ms ensuring

It can switch to backup mode in less than 10ms ensuring uninterruptible power supply for critical loads. It offers 110% continuous AC overloading on backup for maximum power output and emergency shutdown function for system safety. The active, reactive power and power factor of this inverter is fully adjustable, which makes it suitable for micro-grids and ensures grid stability for the whole system. Whether to increase self-consumption, to realize peak-shaving, or for on-grid/offgrid use, the ETC series is the perfect energy storage solution for commercial and industrial applications.



Smart Control & Monitoring

- <10ms UPS-level switching
- \cdot 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

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Technical Data	GW50K-ETC
Battery Input Data	
Battery Type	l i-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) Max. Charging Power (kW)	50
Max. Discharging Power (kW)	55
No. of Battery Input	1
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) Nominal Input Voltage (V)	<u> </u>
Max. Input Current per MPPT (A)	100
Max. Short Circuit Current per MPPT (A)	125
Number of MPP Trackers	1
Number of Strings per MPP1	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
Nax. Apparent Power from Utility Grid (KVA)	200 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
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 (k)(A)	50
Max. Output Apparent Power (kVA)	55
Max. Output Current (A)	76
Nominal Output Voltage (V)	400
Nominal Output Fregency (Hz)	50 / 60
	<376
Enclency	
Max. Efficiency	97.6%
Max Battery to AC Efficiency	97.3%
MPPT Efficiency	99.9%
Protection	
BV Insulation Resistance Detection	Integrated
Residual Current Monitoring	Integrated
PV Reverse Polarity Protection	Integrated
Battery Reverse Polarity Protection	Integrated
Anti-islanding Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
DC Switch	Integrated
AC Switch	Integrated
AC Surge Protection	
Emergency Power Off	Integrated
Rapid Shutdown	Optional
Remote Shutdown	Integrated
General Data	
Operating Temperature Range (°C)	-20 ~ +60 (>45°C derating)
Relative Humidity	0 ~ 95% (Non-condensing)
Cooling Method	Smart Fan Cooling
User Interface	LED, LCD, WLAN + APP
Communication with BMS	RS485
Communication with Meter	RS485
Weight (kg)	H5485, LAN / BIUETOOTN 142
Dimension (W \times H \times D mm)	585 × 1360 × 750
Topology	Non-isolated
Ingress Protection Rating	
Overvoltage Category Protective Class	DU II / AU III
Mounting Method	Grounded
Country of Manufacture	China

*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.

www.goodwe.com.au