

GoodWe GW12K-ET-20 G2 AFCI

Product code: F.Goodwe.3F.H.ETAFCI.wifi.01200



GoodWe GW12K-ET-20 – 12 kW Hybrid Inverter with 3 MPPT and Emergency Power Supply

The GoodWe GW12K-ET-20 is a powerful new-generation three-phase hybrid inverter from the ET G2 series, designed for demanding photovoltaic installations with high energy consumption and a need for reliable emergency power. With its high nominal power and support for 3 independent MPPTs, it enables maximum utilization of solar energy even under complex installation conditions.

The inverter integrates seamlessly with high-voltage energy storage systems (HV) and smart home solutions. It ensures a smooth transition to emergency power mode in case of grid failure (UPS function), which is especially important for users relying on heat pumps, air conditioning systems, or IT infrastructure. Its advanced communication options and remote monitoring capabilities make day-to-day management of the system simple and efficient.

Product variants

Index	Price
<p>GoodWe GW12K-ET-20 G2 AFCI F.Goodwe.3F.H.ETAFCI.wifi.01200</p>	<p>Product prices only visible after login. If you do not have an account, please register.</p>

Product description

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Key Features and Advantages:

UPS emergency power function – instant switch to backup mode in the event of a failure

Compatible with HV Li-Ion batteries (150–720 V)

3 MPPTs – maximum design flexibility for PV installations

Built-in Smart Meter – no external component required

Supports EV chargers and SG Ready smart devices

Advanced communication: RS485, CAN, WiFi, LAN, Bluetooth

High efficiency and low energy losses

Passive cooling, quiet operation, IP66 protection rating

⚙️ Technical Specifications (Key Parameters):

Inverter type: Hybrid, three-phase

AC output power: 12,000 W

Number of MPPTs: 3

Maximum efficiency: 98.2%

European efficiency: 97.5%

Battery voltage range: 150 – 720 V

Max. charging/discharging power: 18,000 W / 13,200 W

Max. PV input power: 19,200 W

MPPT voltage range: 120 – 850 V

Nominal input voltage: 620 V

Nominal AC output voltage: 400 / 380 V

Max. AC output current: 17.4 A

Emergency power (UPS): 12,000 VA (up to 18,000 VA for 60 seconds)

Nighttime consumption: <15 W

Dimensions: 496 × 460 × 221 mm

Weight: 25 kg

Noise level: <45 dB

Protection rating: IP66

Topology: Non-isolated

With its high performance, extensive integration capabilities, and resistance to harsh weather conditions, the GoodWe GW12K-ET-20 is an ideal choice for large households and small to medium-sized businesses seeking maximum energy independence and reliable power supply.