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DATASHEET · EAP-DS-20260917-261-EN-PRO-R01

GCB-E261-PRO

Commercial PV and energy storage system · integrated hybrid inverter cabinet · LFP battery



A 125 kW three-phase hybrid cabinet with five LFP modules in series, air cooling and an IP54 enclosure. It combines the inverter, battery string and AC/DC distribution for commercial PV and storage projects; the delivered configuration and interface are confirmed per order.

PEAK SHAVING | PV SELF-CONSUMPTION | BACKUP POWER | MICROGRID | EV CHARGING SUPPORT | DIESEL DISPLACEMENT

125 kW	261 kWh	IP54	10 MPPT
RATED INVERTER POWER	MODEL ENERGY	OUTDOOR CABINET	PV TRACKERS

KEY FEATURES

01
Five modules, one string
5 × 166 V / 314 Ah modules (52.5 kWh each) in series give 745–933 V DC for a 125 kW cabinet.

02
125 kW three-phase
Rated AC power 125 kW, rated output current 151.6 A*, maximum current 189.9 / 180.4 A*.

03
Air-cooled, IP54
Air cooling in an outdoor cabinet of 1532 × 1388 × 2155 mm and 2600 kg.

04
Ten MPPT for 250 kW PV
150–950 V MPPT window, 10 × 42 A input, 10 × 60 A short circuit, 10 trackers / 20 strings.

05
Grid and island
3 L / N / PE at 220/380 V or 230/400 V, 50/60 Hz; 1.2× for 100 s and 1.4× for 10 s overload.

06
Open points flagged
Energy, rated current and cooling are marked where the source conflicts; confirm before ordering.

SCOPE OF SUPPLY

- Integrated hybrid inverter cabinet, 125 kW
- 5 × LFP battery modules (166 V / 314 Ah)
- Air cooling and IP54 outdoor enclosure
- AC/DC distribution and protection
- Technical file: 261 kWh brochure + cooling correction

TECHNICAL BASIS

All figures are reproduced from the 261 kWh brochure (p. 2) and the air-cooling correction. Conflicts are listed under data requiring confirmation.

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TECHNICAL SPECIFICATIONS

BATTERY AND CABINET

Battery chemistry	**Lithium iron phosphate (LFP)**
Battery modules	**5, in series**
Published module rating	**166 V / 314 Ah / 52.5 kWh***
Battery voltage range	**745–933 V DC**
Cooling method	**Air cooling***
Ingress protection	**IP54**
Cabinet size (W × D × H)	**1532 × 1388 × 2155 mm**
Net weight	**2600 kg**

AC INPUT / OUTPUT

Rated AC power	**125 kW**
Rated AC output current	**151.6 A***
Maximum AC current	**189.9 A / 180.4 A***
Grid connection	**Three-phase, 3 L / N / PE**
AC voltage / frequency	**220/380 V; 230/400 V · 50/60 Hz**
Overload, stand-alone	**1.2× 100 s; 1.4× 10 s**
Current THD	**< 3 % at nominal power**

PV INPUT

Maximum PV module power	**250 kW**
Maximum PV input voltage	**1000 V**
Nominal PV voltage	**600 V**
Start-up voltage	**180 V**
MPPT voltage range	**150–950 V**
PV input current	**10 × 42 A**
Maximum PV short-circuit current	**10 × 60 A**
MPPT trackers / input strings	**10 / 20**
Strings per MPPT tracker	**2**

MODEL AND DOCUMENTATION

Model	**GCB-E261-PRO**
Rated energy	**261 kWh (model designation)***
Packing data	**Not confirmed for this model**
Technical basis	**261 kWh brochure p. 2 + air-cooling correction**

DATA REQUIRING CONFIRMATION

- Energy: 261 kWh is the model designation. The capacity row reads “261Wh”, while five modules at 52.5 kWh total 262.5 kWh. Confirm final rated energy and module ratings.
- AC current: 151.6 A is labelled rated output, 189.9 / 180.4 A maximum. Confirm the 151.6 A value for the 125 kW / 380–400 V configuration before sizing protection.
- Cooling: this edition states air cooling per the supplied correction; the original brochure said liquid cooling. Shipping dimensions, gross weight and detailed operating limits were not supplied.

Specifications are nominal and may change without notice. The contractual revision is the one confirmed in the order acknowledgement. Internal review copy R01.