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DATASHEET · EAP-DS-20260917-241-EN-PRO-R01

GCB-E241-PRO

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



A single outdoor cabinet that combines a 125 kW hybrid inverter, a 241 kWh LFP battery and the AC/DC distribution for commercial photovoltaic and storage projects. Fifteen battery modules sit in one series string at 768 V DC; ten MPPT trackers take up to 250 kW of PV. The cabinet is air-cooled, rated IP54 and transferred between grid and island operation in under 10 ms.

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

125 kW	241 kWh	IP54	10 MPPT
RATED INVERTER POWER	NOMINAL BATTERY ENERGY	OUTDOOR CABINET	PV TRACKERS

KEY FEATURES

01
Hybrid inverter inside
One enclosure carries the hybrid inverter, the LFP battery and the AC/DC distribution: 125 kW AC in and out, 250 kW of PV input, no separate inverter room.

02
Ten MPPT, twenty strings
Ten trackers with two strings each, a 150–950 V MPPT window, 10 × 42 A input current and 1,000 V maximum PV voltage.

03
Fifteen modules, one string
15 × 1P16S modules (1P240S total) give 768 V DC / 314 Ah, 241 kWh nominal and a 695–864 V operating window.

04
Air-cooled, IP54
Air cooling in an outdoor cabinet measuring 1,651 × 1,500 × 2,267 mm and weighing 2,540 ±50 kg.

05
Grid and island in under 10 ms
Three-phase 3 L / N / PE at 220/380 V or 230/400 V, 50/60 Hz, with 1.6× overload for 200 ms and transfer below 10 ms.

06
Packed to a published list
One unit per package: 1,750 × 1,600 × 2,450 mm, 2,580 kg net / 2,625 kg gross and 6.860 m³, per packing list SBP-125kW 241kWh.

SCOPE OF SUPPLY

- Integrated hybrid inverter cabinet, 125 kW
- 15 × LFP battery modules (1P240S string)
- Air cooling and IP54 outdoor enclosure
- Grid / island transfer and protection
- Packing per list SBP-125kW 241kWh
- Technical file SDLPG023/TS-WI-TD-001 V1.00

TECHNICAL BASIS

All figures are reproduced from technical file SDLPG023/TS-WI-TD-001, V1.00, 01/06/2026 (30 pages) and the supplied packing list. Where the two sources disagree, the difference is listed under data requiring confirmation instead of being reconciled by assumption.

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TECHNICAL SPECIFICATIONS

BATTERY AND CABINET

Model	**GCB-E241-PRO**
Fire suppression	**Aerosol**
Operating humidity	**≤95 % RH, no condensation**
Warranty	**5 years**
Battery chemistry	**Lithium iron phosphate (LFP)**
Battery modules	**15 × 1P16S; 1P240S**
Published module rating	**51.2 V / 314 Ah / 16.07 kWh**
Nominal battery voltage / capacity	**768 V DC / 314 Ah**
Battery voltage range	**695–864 V DC**
Cooling method	**Air cooling**
Ingress protection	**IP54**
Cabinet size (W × D × H)	**1,651 × 1,500 × 2,267 mm**
Net weight, technical document	**2,540 ±50 kg**

AC INPUT / OUTPUT AND GRID

Rated AC input / output power	**125 kW**
Maximum apparent power, grid side	**125 kVA**
Rated AC output current	**189.9 A / 180.4 A**
Maximum grid input current	**250 A**
Grid connection	**Three-phase, 3 L / N / PE**
AC voltage / frequency	**220/380 V; 230/400 V · 50/60 Hz**
Overload, stand-alone output	**1.2× 100 s; 1.4× 10 s; 1.6× 200 ms**
Grid / island transfer time	**< 10 ms**
Current THD, grid side	**< 3 %**

PV INPUT

Maximum PV module power	**250 kW**
Maximum PV input voltage	**1,000 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**

SHIPPING AND PACKING

Packing list reference	**SBP-125kW 241kWh**
Packed size (L × W × H)	**1,750 × 1,600 × 2,450 mm**
Packing-list net / gross weight	**2,580 kg / 2,625 kg**
Package volume	**6.860 m³**
Units per package	**1**

DATA REQUIRING CONFIRMATION

- Weight: technical document 2,540 ±50 kg; packing list 2,580 kg net / 2,625 kg gross. Presented separately, not reconciled.
- Rated energy is not guaranteed usable energy; runtime depends on SOC, load, losses, auxiliary consumption, temperature and ageing.

Specifications are nominal at 25 °C unless stated otherwise and may change without notice. The contractual revision is the one confirmed in the order acknowledgement. Internal review copy R01 · PRO — not for external release until the open points above are closed.