

Illustrative application background

125 kW / 261 kWh

Liquid-Cooled C&I ESS

G125K-LE260

Compatible with PCS / inverter solutions

Rechargeable lithium iron phosphate (LiFePO4) battery

Easy Installation & Flexible Integration

- Front installation / rear maintenance; waterproof quick-connect battery terminals.
- Direct generator connection without an external ATS box [1].

Efficient Power & Precision Cooling

- Supports 200% PV over-configuration and seamless grid/off-grid switching [1].
- Supplier-stated cell-to-cell temperature difference <3°C with liquid cooling.

Long Life & Multi-Layer Protection

- Cell test: 8,000 cycles at 25°C, 0.5C/0.5C, 90% DOD and 70% EOL.
- Automatic laser welding for battery consistency and low internal resistance.
- IP54 cabinet with aerosol fire protection, heat and smoke detection.

Smart Energy Management

- EMS supports self-consumption, time-of-use scheduling and generator charging.
- Battery monitoring and fault alerts; remote access via compatible 4G/WiFi devices.

SYSTEM HIGHLIGHTS

CORE PERFORMANCE AT A GLANCE

125 kW	261 kWh	832 V	0.5P	IP54	LIQUID
DC RATED POWER	RATED ENERGY	RATED VOLTAGE	CHARGE / DISCHARGE	CABINET IP	COOLING

TECHNICAL SPECIFICATIONS	G125K-LE260
TYPE PARAMETER	
Model number	G125K-LE260
System type	125 kW / 261 kWh
BATTERY PARAMETERS	
Battery cell	LFP 314 Ah
Battery pack	166.4 V / 314 Ah
Rated voltage (V)	832 (5 modules in series)
Rated energy (kWh)	261
Voltage range (V)	728-936
DC SIDE PARAMETERS	
Cell configuration	1P260S
Rated power (kW)	125
Rated charge / discharge rate	0.5P
Standard charge / discharge current (A)	157 / 157
AC OUTPUT PARAMETERS - INVERTER*	
Rated AC output power (kW)*	125
Max. apparent power (kVA)*	125
Nominal AC voltage / wiring*	3W+N+PE; 220/380 V, 230/400 V
Nominal AC frequency (Hz)*	50 / 60
Rated AC output current (A)*	180
Max. AC output current (A)*	190
Adjustable power factor range*	0.99 (0.8 lagging to 0.8 leading)
CABINET / BASIC PARAMETERS	
Cabinet dimensions W × D × H (mm)	1011.5 × 1420 × 2320
Supplier-listed cabinet weight (t)	Approx. 2.6
Cabinet ingress protection	IP54
Operating temperature (°C)	-20 to +50; derating above +45
Relative humidity	RH <=95% (non-condensing)
Altitude (m)	<2000
Cooling method	Liquid cooling
Coolant	Ethylene glycol / water (50%v : 50%v)
Cell cycle life (test conditions)	8,000 cycles @25°C; 0.5C/0.5C; 90% DOD; 70% EOL
Fire protection system	Aerosol
Detector type	Heat and smoke detection

* Original inverter AC ratings retained; the two supplied cabinet documents do not verify these values. Exact inverter model/ratings require confirmation.

[1] Previously user-confirmed inverter configuration; no-ATS, 200% PV and seamless transfer are not independently validated here.

Cabinet width follows the manual drawing (datasheet: 1011 mm). Inclusion of the external inverter, brackets or packing in dimensions/weight is unspecified.

Supplier table values are experimental data; the actual product shall prevail.



Conceptual system topology; project wiring to be verified.