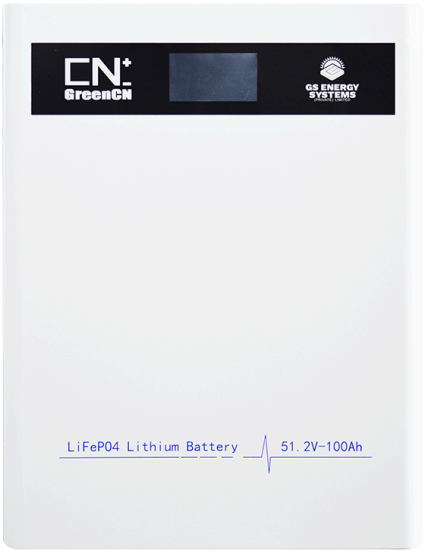


GS ENERGY X CN GREEN

5.1 kWh

51.2 V · 100 Ah lithium iron phosphate (LFP) battery

Model LF-WPS-51.2V100AH-B

5.12 kWh
Nominal energy

50 A
Recommended charge / discharge

100 A
Max. charge / discharge

6,000 cycles
Minimum, at 80% depth of discharge

WHY THIS BATTERY

Built-in aerosol fire suppression
A fire-suppression module sits inside the pack itself.

Smart BMS, cell-level protection
Monitors every cell's voltage (to 10 mV), temperature and current; protects against over-charge, over-discharge, over-current and short circuit.

Made for daily cycling
≥ 6,000 cycles at 80% depth of discharge (25 °C, 0.5C). LFP chemistry: 16 lithium iron phosphate cells in series.

Talks to your inverter
RS485 and CAN for 40+ inverter brands, plus RS232. Parallel expansion: up to 32 units.

SAFETY BUILT IN

Every GS Energy x CN Green pack has a built-in aerosol fire-suppression system.

5 years

Warranty, with GS Energy after-sales support in Pakistan.

48 V system. 48 V-class battery for low-voltage hybrid inverters with a 40–60 V battery input.

GS ENERGY X CN GREEN RANGE

2.6 kWh	5.1 kWh	10.5 kWh	16.1 kWh
25.6 V · 100 Ah	51.2 V · 100 Ah	51.2 V · 205 Ah	51.2 V · 314 Ah

TECHNICAL DATA

ELECTRICAL

Nominal voltage	**51.2 V**
Nominal capacity	**100 Ah / 5.12 kWh**
Cell chemistry	**LiFePO4, 16 cells in series**
Recommended charge current	**≤ 50 A**
Max. charge current	**100 A**
Recommended discharge current	**≤ 50 A**
Max. discharge current	**100 A**
Charge protection voltage	**56.8 V**
Discharge protection voltage	**46.4 V**
Cycle life	**≥ 6,000 (25 °C, 0.5C, 80% DOD)**

GENERAL

Communication	**RS485, CAN, RS232**
Parallel connection	**Up to 32 units**
Charging temperature	**5 to 55 °C**
Operating temperature	**-20 to 60 °C**
Protection rating	**IP20 (indoor)**
Weight	**≈ 49.7 kg**
Dimensions (W × H × D)	**572 × 508 × 155 mm**
Fire protection	**Built-in aerosol fire suppression**
Certification	**CE, MSDS, UN38.3**
Warranty	**5 years**

USING YOUR BATTERY

1. **Install indoors**
   Dry, shaded and ventilated, away from heat, sparks, children and pets. Mount only on a fire-resistant wall or floor that can carry 49.7 kg.
2. **Switch on**
   Connect the inverter cables to B+ and B- first, check the wiring, then turn on the battery switch.
3. **Switch off**
   Turn off the load and the inverter first, then the battery switch.
4. **Keep it healthy**
   Charge and discharge at the recommended 50 A for the longest life. Recharge promptly after a deep discharge.

INDICATOR LIGHTS

RUN slow flash	Standby, ready
RUN steady	Charging
RUN flashing	Discharging
ALM flashing	Warning. Check load, temperature or charge level
ALM steady	Protection active. Battery stops. Call support
4 level LEDs	Each LED is about 25% charge

STORAGE

Store at 30–60% charge, 5–70% humidity.

-10 to 25 °C	**Up to 12 months**
25 to 35 °C	**Up to 6 months**
35 to 45 °C	**Up to 3 months**
Below -10 or above 45 °C	**Do not store**

COMPATIBLE INVERTERS

CAN: Pylon, Deye, Growatt, Solax, Sofar, GoodWe, INVT, Afore, Solis, Luxpower, Victron, Sorotec, SMA, Donnergy, Must, Imeon, Schneider, Genixgreen, Inhenergy, Senergy, LTW, Sunways, Studer, SAJ, Livoltek

RS485: Pylon, Deye, Growatt, Voltronic, Pace, LTW, Must, SRNE, Baykee, SMK, Afore, VKing, Bitta, Stone, EPEver

POWER THAT STAYS ON.

Support and warranty claims: contact your GS Energy dealer or gsenergysystems.com

GS ENERGY