Glannu

PRODUCT DATASHEET
GEV-6040

EV 2-WHEELER BATTERY · SMART NMC

Lithium-ion Battery Pack

60V 40Ah

59.2 V · 40 Ah · 2,368 Wh

FRP FIRE-RESISTANT CASE **16S 50A SMART BMS**

59.2 V Nominal voltage	**40 Ah** Capacity	**2.4 kWh** Energy
60–80 km Typical range*	**50 A** Max continuous	**16S8P** Configuration



Representative image - case and connector vary by model and vehicle

Key Features

- **High Energy Density** — 128 graded 21700 5 Ah NMC cells, 16S8P
- **Smart BMS Protection** — Over/under-voltage, over-current, short-circuit and temperature protection
- **FRP Fire-Resistant Case** — Fire-retardant enclosure for safer on-vehicle use
- **Cell Balancing** — Keeps cells matched for longer life and full usable capacity
- **Fits Your Vehicle** — Standard sizes, or built to your scooter's battery bay
- **Fast, Safe Charging** — CC-CV to 67.2 V; SB50 output, Elcom charging port

Applications

Electric scooters | E-bikes & e-mopeds | E-motorcycles | Delivery & fleet EVs | EV battery upgrades

For 60V low- and high-speed two-wheelers. *Range is typical at 30–40 Wh/km and varies with motor, load, speed and road.

DIMENSIONS & WEIGHT

Standard (W x L x H)	185 x 235 x 230 mm
Custom size	Made to fit your battery bay on request

Weight ≈ 12.1 kg · Output: SB50 · Charging: Elcom

DESIGNED TO STANDARDS

IEC 62133-2:2017
IS 16046-2018
UN38.3 (transport)

Recommended Charger Settings

Li-ion NMC	67.2 V	8 A (0.2C)	10 A	2.0 A (0.05C)	0 – 45 °C
Battery type	Charge voltage	Standard current	Max current	Charge cut-off	Charge temp.

Call +91 70838 98947 · WhatsApp +91 82619 63374 · Email info@glannu.com · Shop online store.glannu.com
Glannu Industries · Sargam B, B-1808, Nanded City, Sinhgad Rd, Pune, Maharashtra 411068
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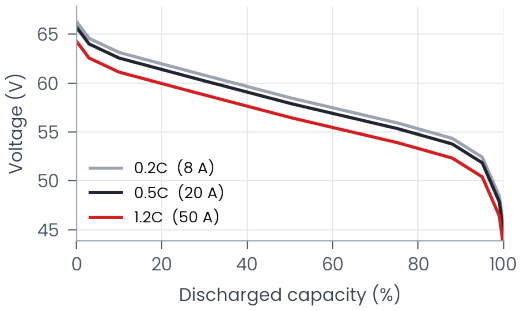
Technical Specifications

GENERAL	
Product	Lithium-ion EV Battery Pack 60V 40Ah
Model no.	GEV-6040
Chemistry	Lithium-ion NMC
Cell	21700 cylindrical, 3.7 V 5.0 Ah
Configuration	16S8P (128 cells)
ELECTRICAL	
Nominal voltage	59.2 V (60 V class)
Nominal capacity	40 Ah
Nominal energy	2,368 Wh
Voltage range	44.8 – 67.2 V (2.8 – 4.2 V/cell)
Charge efficiency	≥ 98%
Cycle life	≥ 800 cycles @ 80% DoD
CHARGE	
Charging method	CC–CV
Charge voltage	67.2 V
Standard charge current	8 A (0.2C)
Max charge current	10 A
Charge cut-off current	2.0 A (0.05C)
DISCHARGE	
Standard discharge current	20 A (0.5C)
Max continuous discharge	50 A (BMS limited)
Discharge cut-off voltage	44.8 V
BMS & PROTECTION	
BMS	16S 50 A smart BMS, cell balancing
Over-voltage	4.20 V/cell (67.2 V); recovery 4.00 V/cell
Under-voltage	2.80 V/cell (44.8 V); recovery 3.00 V/cell
Charge over-current	10 A
Short circuit	Protected
Over-temp. (discharge)	60 °C; recovery 50 °C
Over-temp. (charge)	50 °C; recovery 40 °C
ENVIRONMENT	
Discharge temperature	-10 °C to +55 °C
Charge temperature	0 °C to +45 °C
Storage temperature	0 °C to +35 °C
Humidity	< 90% RH, non-condensing
MECHANICAL	
Dimensions (W x L x H)	185 x 235 x 230 mm
Weight	≈ 12.1 kg
Enclosure	FRP fire-resistant case
Connectors	SB50 output, Elcom charging port
STANDARDS	
Safety (design)	IEC 62133-2:2017 / IS 16046-2018
Transport	UN38.3
Documents	MSDS available on request

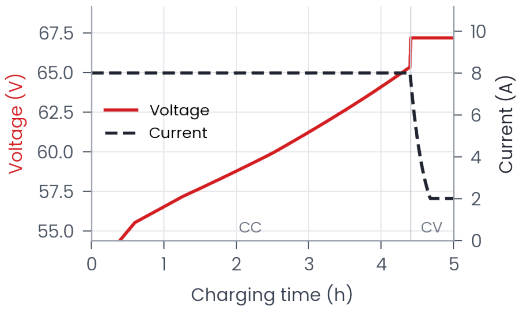
SAFETY & HANDLING

- Charge only with a Li-ion charger set to 67.2 V; do not leave on charge indefinitely.
- Do not wet, crush, puncture, heat, disassemble or short the terminals.
- Store dry and ventilated at 20–35 °C, away from sunlight; at 40–60% charge for long storage.
- Never reverse polarity. Dispose of as per government e-waste rules.

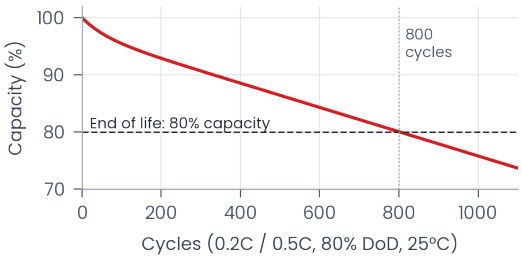
Typical Discharge Curves



Charging Profile (CC–CV)



Cycle Life



Charts show typical NMC behaviour at 25 °C for this 16S8P pack and are for reference only. Actual results depend on temperature, load and charger.

Need a pack for your vehicle?

Send your scooter model and battery-bay size.

Call us
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WhatsApp us
+91 82619 63374

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