

HV-700 (54 Ah cells) Spec Sheet

Overview	ELV HV-700 battery Pack
Configuration	180S2P
Cell	EV infinity 54 Ah (NMC)
Dimensions (L X W X H)	1740 x 763.79 x 298.79 mm
Weight	420 Kg
Nominal Capacity	108 Ah
DC Voltage (100%SOC)	576 V - 738 V
Nominal Voltage (@3.7 V)	666 V
Nominal Energy	71.92 kWh
Charge Power¹	Continuous: 50.3 kW (0.7 C) at ambient temperature 107.9 kW (1.5 C) with active cooling
	12.5 sec : 179.8 kW (2.5 C)
Discharge Power¹	Continuous: 50.2 kW (0.7C) at ambient temperature 143.8 kW (2C) with active cooling
	30 sec : 215.7 kW (3C)
Energy Density	171 Wh/Kg Grav. (181 Wh/l Vol.)
Self-discharge rate	1-2% per month (no tare loss); (<0.6mV/day/cell @ 50%SOC)
Ambient storage temperature	-20°C to 45°C (with 40% to 60 % SOC)
Operating temperature (Discharging)	-30°C to 50°C (Continuous power: De-rated from -30°C to 0°C and from 40°C to 50°C)
Operating temperature (Charging)	-5°C to 50°C (Continuous power: De-rated from 40°C and 50°C)
Relative Humidity	0% to 95% non-condensing
Cycle Life Performance	Up to 14,000
Enclosure IP grade	IP67
Isolation Voltage	1500 VDC
Isolation Resistance	> 100 MΩ from (each) battery terminal to chassis
External Power	24 V Always on unswitched power used to operate the BMS
Transportation	Meet requirements of UN38.3
Certifications	UN38.3, ECE R100.3 (planned)