

HV-300 (with 47 Ah cells) Spec Sheet

Overview	Battery Pack Details
Configuration	90S2P
Cell	EV-44 at 47 Ah (NMC)
Dimensions (L X W X H)	1540 x 610 x 180 mm
Weight	230 Kg
Nominal Capacity	94 Ah
DC Voltage (100%SOC)	288 V - 369 V
Nominal Voltage (@3.7 V)	333 V
Nominal Energy	31.3 kWh
Charge Power¹	Continuous: 21.9 kW (0.7 C) at ambient temperature 47 kW (1.5 C) with active cooling
	12.5 sec: 78.3 kW (2.5 C)
Discharge Power¹	Continuous: 21.9 kW (0.7C) at ambient temperature 62.6 kW (2C) with active cooling
	30 sec: 93.9 kW (3C)
Energy Density	136 Wh / Kg Grav. (185.1 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 enclosure
Isolation Voltage	1500VDC
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)

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