

## HV-300 (with 54 Ah cells) - Spec Sheet

Overview	Battery Pack Details
<b>Configuration</b>	<b>90S2P</b>
<b>Cell</b>	EV-52 at <b>54 Ah</b> (NMC)
<b>Dimensions (L X W X H)</b>	<b>1540 x 610 x 180 mm</b>
<b>Weight</b>	<b>238.5 Kg</b>
<b>Nominal Capacity</b>	<b>108 Ah</b>
<b>DC Voltage (100%SOC)</b>	<b>288 V - 369 V</b>
<b>Nominal Voltage (@3.7 V)</b>	<b>333 V</b>
<b>Nominal Energy</b>	<b>36 kWh</b>
<b>Charge Power<sup>1</sup></b>	<b>Continuous:</b> 25.2 kW (0.7 C) at ambient temperature 54 kW (1.5 C) with active cooling
	<b>12.5 sec: 90 kW (2C)</b>
<b>Discharge Power<sup>1</sup></b>	<b>Continuous:</b> 25.2 kW (0.7C) at ambient temperature 72 kW (2C) with active cooling
	<b>30 sec: 108 kW (3C)</b>
<b>Energy Density</b>	<b>150.9 Wh / Kg Grav. (212.9 Wh/L Vol.)</b>
<b>Self-discharge rate</b>	<b>1-2% per month (no tare loss); (&lt;0.6mV/day/cell @ 50%SOC)</b>
<b>Ambient storage temperature</b>	<b>-20°C to 45°C (with 40% to 60 % SOC)</b>
<b>Operating temperature (Discharging)</b>	<b>-30°C to 50°C (Continuous power: De-rated from -30°C to 0°C and from 40°C to 50°C)</b>
<b>Operating Temperature (Charging)</b>	<b>-5°C to 50°C (Continuous power: De-rated from 40°C and 50°C)</b>
<b>Relative Humidity</b>	<b>0% to 95% non-condensing</b>
<b>Cycle Life Performance</b>	<b>Up to 14,000</b>
<b>Enclosure IP grade</b>	<b>IP67 enclosure</b>
<b>Isolation Voltage</b>	<b>1500VDC</b>
<b>Isolation Resistance</b>	<b>&gt; 100 MΩ from (each) battery terminal to chassis</b>
<b>External Power</b>	<b>24 V Always on unswitched power used to operate the BMS</b>
<b>Transportation</b>	<b>Meet requirements of UN38.3</b>
<b>Certifications</b>	<b>UN38.3, ECE R100.3 (planned)</b>

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