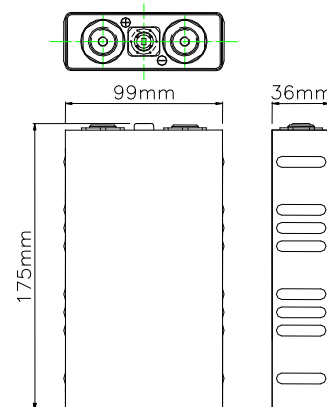


<b>Type</b>	: Rechargeable Nickel Metal Hydride Prismatic Batteries
<b>Nominal Dimension</b>	: T= 36.0mm +3/-0 H = 175.0mm +0/-2 W = 99.0mm +0/-2
<b>Nominal Voltage</b>	: 1.2 V
<b>Capacity</b>	: 78Ah at 40A (0.5C) discharge to 1.0V / cell at 20°C
<b>Specific Energy</b>	: 47Wh/kg at 0.5C discharge
<b>Specific Power</b>	: 224W/kg with 80% SOC at 5C 30 sec.
<b>Energy density</b>	: 138Wh/L at 0.5C discharge
<b>Power density</b>	: 662W/L with 80% SOC at 5C 30sec.
<b>Charging Current</b>	: 16A (0.2C) to 40A (0.5C) recommended
<b>Charging Termination (Consult GP for other charging conditions)</b>	: $-\Delta V$ : 0mV/cell to 10mV/cell TCO : 45°C Timer : 100% nominal capacity input

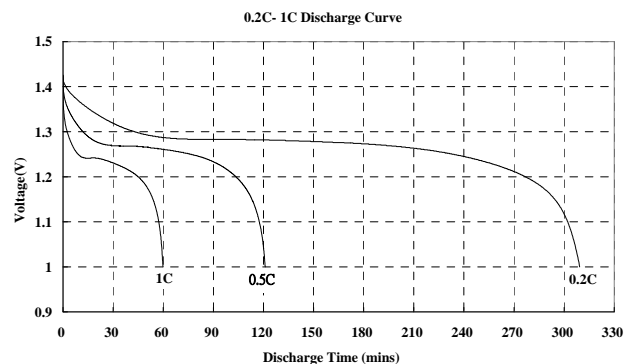
The above 3 charge termination controls must be used concurrently

### Model No.: GP80EVS

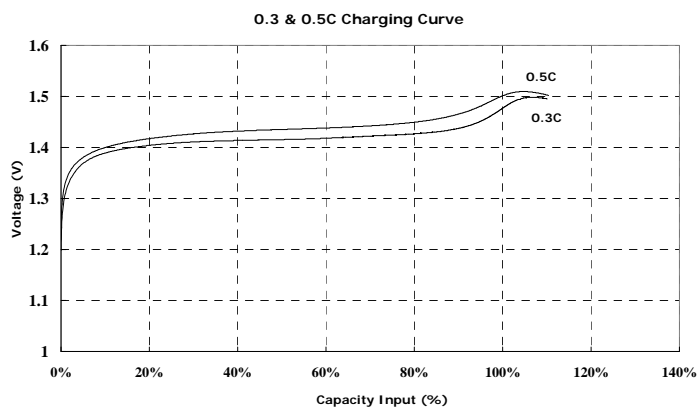


<b>Max. Charging Temp.</b>	: Cell temperature must not exceed 45°C
<b>Max. Charging Current</b>	: 80A (1C) continuous (Consult GP for high current fast charge)
<b>Max. Discharge Current</b>	: 160A (2C) continuous 400A (5C) pulse for 5s
<b>Service Life</b>	: >1500 cycles (80%DOD at 1C)
<b>Weight</b>	: ~ 2kg
<b>Internal Resistance</b>	: <1.0mΩ
<b>Ambient Temperature Range</b>	: Charge : 0 to 45°C (conditionally) Discharge : -20°C to 50°C (conditionally) Storage : -20 to 35°C

### Low C-rate Discharge at 20°C

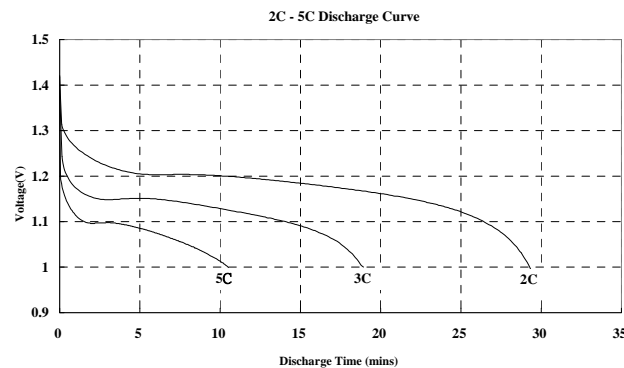


### Charging Characteristics at 20°C



Remark: Clamping is necessary during charge and discharge for unit cell.

### High C-rate Discharge at 20°C



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