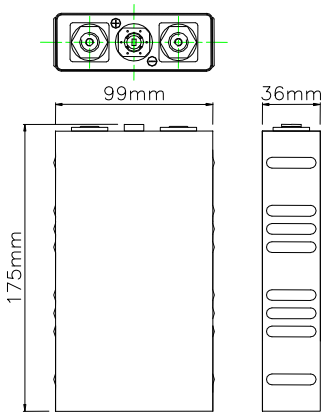
EVB Technology

DATA SHEET

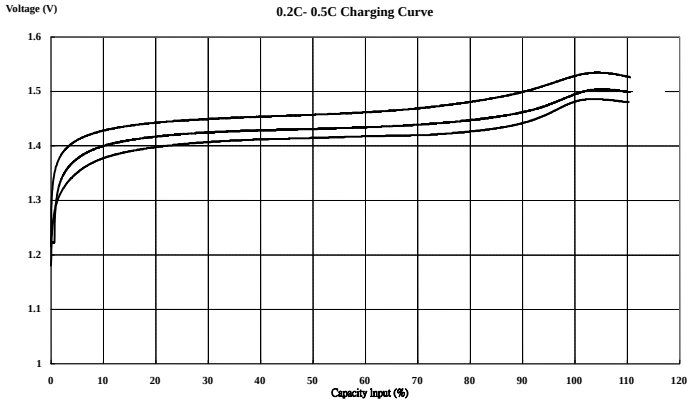
Model No.: GP100EVH

Type	: Rechargeable Nickel Metal Hydride Prismatic Batteries
Nominal Dimension	: T = 36.0mm +2/-0 H = 175.0mm +0/-2 W= 99.0mm +0/-2
Nominal Voltage	: 1.2V
Capacity	: 98Ah at 50A (0.5C) discharge to 1V/Cell at 20℃
Specific Energy	: 58 Wh/kg at 0.5C discharge
Specific Power	: 143 W/kg with 80% SOC at 3C 30 sec.
Energy density	: 176Wh/L at 0.5C discharge
Power density	: 435W/L with 80% SOC at 3C 30sec.
Charging Current	: 20A (0.2C) to 50A (0.5C) recommended
Charging Termination (Consult GP for other charging conditions)	: -ΔV : 0mV/cell to 10mV/cell TCO : 45℃ Timer : 100% nominal capacity input The above 3 charge termination controls must be used concurrently



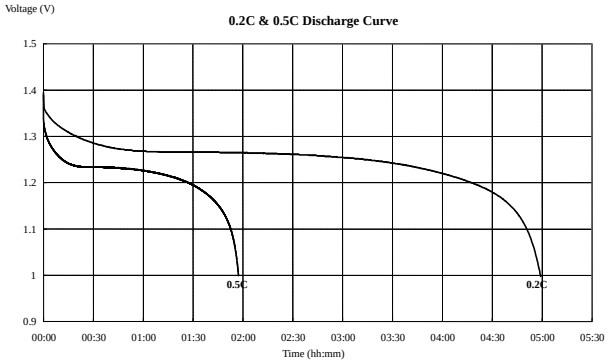
Max. Charging Temp.	: Cell temperature must not exceed 45℃
Max. Charging Current	100A (1C) continuous (Consult GP for high current fast charge)
Max. Discharge Current	: 200A (2C) continuous 300A (3C) pulse for 5s
Service Life	: >1500 Cycles (80%DOD at 1C)
Weight	: ~ 2 kg
Internal Resistance	: < 1.0mΩ
Ambient Temperature Range	: Charging: 0 to 45℃ (conditionally) Discharging: -20°C to 50℃(conditionally) Storage: -20 to 35℃

Charging Characteristics at 20°C

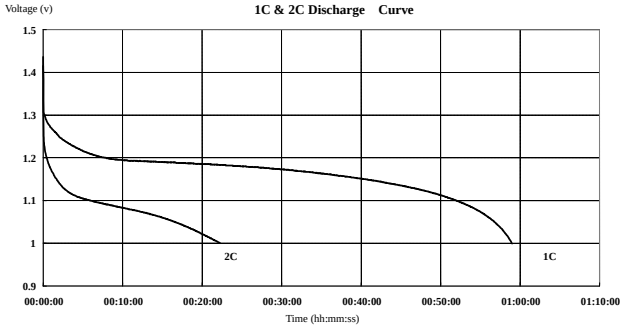


Remark: Clamping is necessary during charge and discharge for unit cell.

Low C-rate Discharge at 20°C



High C-rate Discharge at 20°C



The above information is generally descriptive only and is not intended as guarantee or warranty. Cell and battery specifications are subject to change without notice. All descriptions or warranties are contained solely in specification sheets accompanying outside those described in this document.

ERS0320 Rev.0