



### Features of Ni-Zn Battery Pack

- **Longer Cycle Life:** A life of up to 800 cycles, two times cycle life of Ni-MH battery, so it can be an alternative to Ni-MH batteries for Electric products. Due to their increased power rate and energy Density features, users can expect a long time between charges and longer running time.
- **Higher Power:** High discharge rate up to 50C.
- **Wider Temperature Range:** -40°C~+75 °C:
- **Superior Safety:** Same as Ni-MH battery, there with no fire, no explosion, no memory effect, and meantime more environmentally friendly than Ni-MH.
- **Increased Flexibility:** Modular design enables deployment with several batteries both in series and in parallel.

### SGS

- MSDS
- UN38.3
- IEC

### Physical Dimension

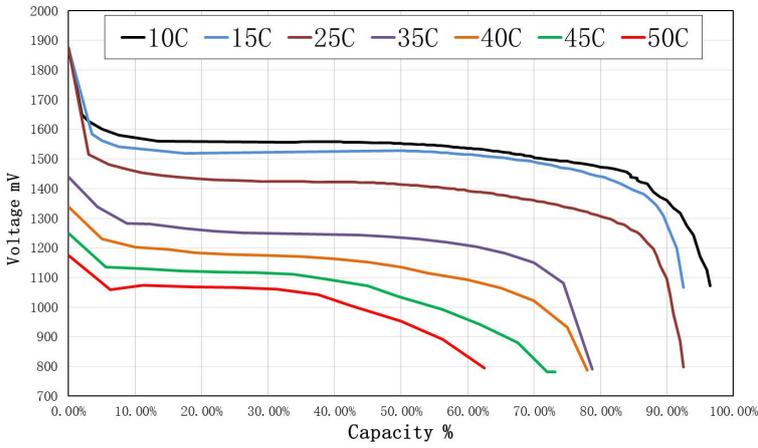
Part NO.	Nominal Voltage	Type Capacity	Dimension (L*W*H)
MB1202Z	12V	2Ah	98*65*63
MB1203Z	12V	3Ah	115*65*85
MB1207Z	12V	7Ah	151*85*95

### Specification

Electrical Characteristics	Nominal Voltage	12V
	Nominal Capacity	7Ah
	Energy	48Wh
	Internal Resistance	≤100mΩ
	Cycle Life	>500 cycles @0.2C 70%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1.0C
Standard Charge	Charge Voltage	15.2V
	Charge Mode	0.2C to 15.2V, then 15.2V, charge current to 0.02C <sub>5</sub> A (CC/CV)
	Charger Current	7A
	Max. Charge Current	21A
	Charge Cut-off Voltage	15.2±0.03V
Standard Discharge	Continuous Current	280A
	Peak Current	400A(<3s)
	Discharge Cut-off Voltage	9.6V
Environmental	Charge Temperature	0°C to 45°C @60±25% Relative Humidity
	Discharge Temperature	-40°C to 75°C @60±25% Relative Humidity
	Storage Temperature	0°C to 40°C @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Dimensions (mm.)	151*85*95mm
	Weight (g.)	Approx:2.1kg

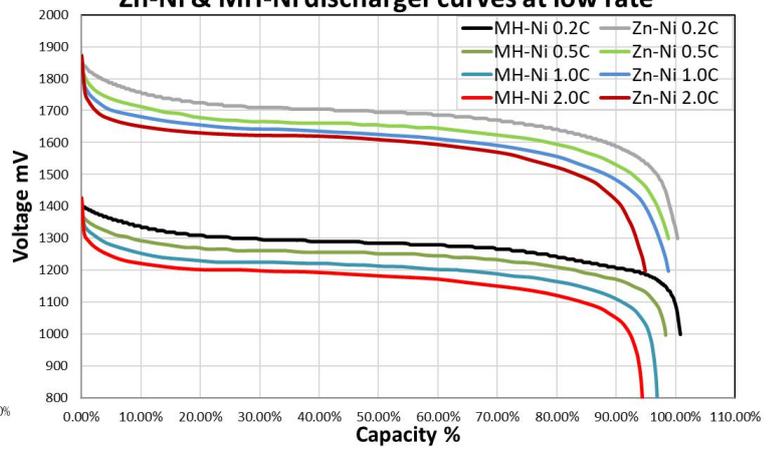
### Different Rate Discharge Curve

Zn-Ni discharge curves at high rate



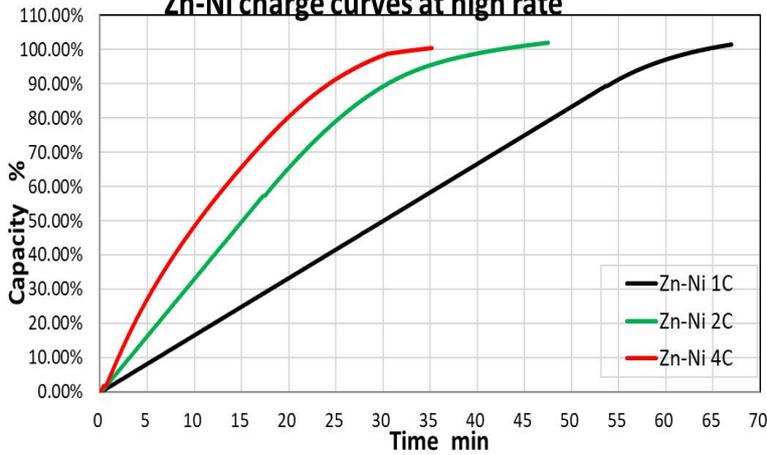
### NiZn & NiMH Discharge Curve

Zn-Ni & MH-Ni discharger curves at low rate



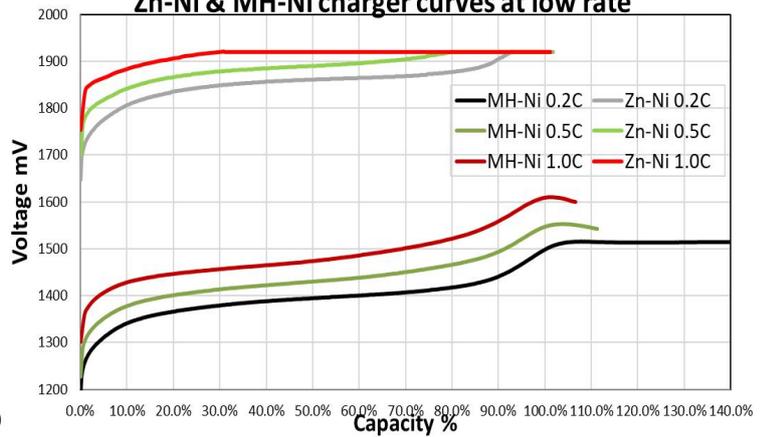
### Different Rate Charge Curve

Zn-Ni charge curves at high rate



### NiZn & NiMH Charge Curve

Zn-Ni & MH-Ni charger curves at low rate



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