### Preliminary Datasheet

- **Type Number:** 55855
- **System:** Nickel Metal Hydride/ KOH Electrolyte
- **Nominal Voltage [V]:** 1.2
- **Nominal Capacity C [mAh]:** 550
- **Typical Capacity C [mAh]:** 565 at 11.0 mA / 1.00 V
- **Weight, approx. [g]:** 14.5
- **Dimensions [mm]:**
  - **Length [l]:** 23.9 – 24.1
  - **Width Facing [w]:** 33.9 – 34.1
  - **Height [h]:** 6.3 – 6.8 *
- **UL Recognition:** pending
- **Coding:** Manufacturing 5 digit code (123 = day/4 = year/ 5 = version)
- **Temperature Ranges [°C]:**
  - **Storage:** less than 1 week: -40 – 85
                      Less than 1 month: -40 – 65
  - **Discharge:** -30 – 85
  - **Charge:** -20 – 85
- **Charging Method:**
  - **Recommended Charging:** Temperature compensated CC-CV charge
    (for further information please consult VARTA)
  - **Normal Charging:** 55 mA for 14 – 16 h
  - **Accelerated Charging (20°C):** 165 mA for 4 h
  - **Fast Charging (20°C):** 550 mA (–dV; dT)**
  - **Trickle Charging:** 5.5 mA
  - **Max. Charge Voltage:** 1.55 V
- **Overcharge (20°C):** 55mA up to 6 month
- **Charge Retention [%] at 20°C:** >60%
  - Capacity available after 6 month Storage at 20°C
- **Internal Resistance [Ohm]:** 0.1
  - at charged cells, 20°C, DC: 0.2 CA/2 CA. (IEC 61951-2)
- **Impedance [Ohm]:** 0.015
  - at charged cells, 20°C, AC: 1kHz, (IEC 61951-2)
- **Typical Capacities [mAh]:**
  - at 20°C 550 mA / 0.9 V: 500
  - at 20°C 1.65 A / 0.9 V: 300
  - at -20°C 550mA / 0.7 V: 500
- **Max. Discharge Current (cont.) [mA]:** 3000
- **Life Expectancy (typical):**
  - **IEC Cycle:** 1000 Cycles (IEC 61951-2)
  - **Trickle Charge:** up to 5 years (20°C)
  - **Trickle Charge:** up to 3 years (45°C)

*Height could increase by 0.4mm with cycles and/or at elevated temperatures.
Typical Discharge Profiles (not guaranteed)

Before each discharge, every cell was charged at RT (23°C) with 100mA for 7 hours.
Before each discharge, test temperature was held for 3 hours.

Discharge Profiles 20°C

Discharge Profiles -20°C

Discharge Profiles -30°C

Charge Profiles

All performance data are single cell data.
Data are typical data and not guaranteed and may vary due to application conditions.