# VHT AA U 800

# High Temperature Series

ARTS Energy's VHT U high temperature Ni-MH series are perfectly suited to emergency lighting and power back-up requirements. With an intermittent charging regime, the design life is 4 years in high temperature environments (up + 55°C).

The VHT AA U 800 cell is designed to accept intermittent charge in a large range of temperature (- $20^{\circ}$ C to + $55^{\circ}$ C).

The VHT AA U 800 allows a significant reduction in the energy consumption of luminaires.

To meet customers' requirements, ARTS Energy provides custom-designed and standardized battery packs.

For your battery design and system needs, please contact ARTS Energy's engineers.

#### **Applications**

- Emergency lighting
- Back-up systems

#### Main advantages

- Excellent charge efficiency at high temperatures
- Intermittent charge
- Superior storage retention

#### **Technology**

- Foam positive electrode
- Plastic bonded metal-hydride negative electrode



Electrical characteristics			
Nominal voltage (V)			1.2
Typical capacity (mAh)*			835
IEC minimum capacity (mAh)*			800
IEC designation			HRMU 15/49
Impedance at 1000 Hz (m $\Omega$ )			20
* Charge 16 h at C/10, discharge at C/5.			
Dimensions			
Diameter (mm)			13.9 ± 0.1
Height (mm)			$48.9 \pm 0.3$
Top projection (mm)			$0.8 \pm 0.2$
Top flat area diameter (mm)			5.6
Weight (g)			21
Dimensions are given for bare cells.			
Charge conditions Rate	Time (h)	Temp. (℃)	Charge current (mA)
Standard	16	- 20 to + 55	80
Intermittent		- 20 to + 55	Consult ARTS Energy
Maximum discharge current			
Continuous (A) at + 20°C			2.4
Peak (A) at + 20°C*			26



## Temperature range in discharge

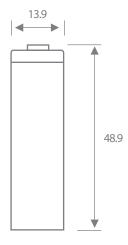
- 40°C to + 70°C

#### Storage

Recommended:  $+5^{\circ}\text{C}$  to  $+25^{\circ}\text{C}$ Relative humidity:  $65 \pm 5 \%$ 

### **Typical performances**

For graphs shown, C is the IEC<sub>5</sub> capacity.



Dimensions are in mm.

The way of using the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances announced by ARTS Energy.

Data are given for single cells. Please consult ARTS Energy for utilization of cell outside this specification.

Data in this document are subject to change without notice and become contractual only after written confirmation by ARTS Energy.

