# VNT Cs U

# High Temperature Series

ARTS Energy's VNT U high temperature Ni-Cd series are perfectly suited to emergency and security equipment applications. It is designed to accept a permanent charge for a minimum of 4 years in high temperature environments (up + 55°C).

It also brings an improvement at low temperature, suiting perfectly with severe outdoor application.

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
- Professional lighting
- Memory back-up systems
- Security devices

#### Main advantages

- Good charge efficiency at high temperature
- Good autonomy at low temperature
- Permanent charge
- Good storage retention
- Long life duration at high temperature

#### **Technology**

- Plastic bonded positive electrode
- Plastic bonded negative electrode

#### Temperature range in discharge

- 20°C to + 70°C

#### Storage

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



Electrical characteristics	
Nominal voltage (V)	1.2
Typical capacity (mAh)*	1650
IEC minimum capacity (mAh)*	1600
IEC designation	KRMU 23/43
Impedance at 1000 Hz (m $\Omega$ )	8
* Charge 16 h at C/10, discharge at C/5.	
Dimensions	

* Charge 16 h at C/10, discharge at C/5.	
Dimensions	
Diameter (mm)	22.0 + 0.15/- 0.05
Height (mm)	$41.9 \pm 0.3$
Top projection (mm)	$0.8\pm0.2$
Top flat area diameter (mm)	9.0 min
Weight (g)	45
Dimensions are given for bare cells.	

Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard*	16	+ 15 to + 55	160
Permanent		+ 15 to + 55	80
Trickle**			40 to 53
* End of charge cut off is requested: timer coulomb moto	r	** Tricklo chargo follows	full chargo

Maximum discharge current	
Continuous (A) at + 20°C	5.2
Peak (A) at + 20°C*	40

\* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.

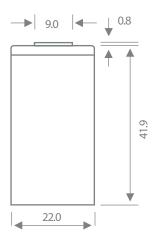


Advanced Rechargeable Technology and Solutions



## **Typical performances**

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



Dimensions are in mm.

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.

