VNTCU

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).

The VNT U series also bring an improvement at low temperature, suiting perfectly with severe outdoor applications.

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
- 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)*	2650
IEC minimum capacity (mAh)*	2500
IEC designation	KRMU 27/50
Impedance at 1000 Hz (m Ω)	8
* Charge 16 h at C/10, discharge at C/5.	

Dimensions	
Diameter (mm)	25.15 + 0.2/- 0.15
Height (mm)	49.1 ± 0.4
Top projection (mm)	0.8 ± 0.2
Top flat area diameter (mm)	12 ± 0.1
Weight (g)	75

Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard*	16	+ 15 to + 55	250
Permanent		+ 15 to + 55	125
Trickle**			62 to 125

Dimensions are given for bare cells

Trickle**		62 to 125
* End of charge cut-off is requested: timer, coulomb meter.	** Trickle charge follows full charge.	
Maximum discharge current		
Continuous (A) at + 20°C		8.5
Peak (A) at + 20°C*		100
* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.		

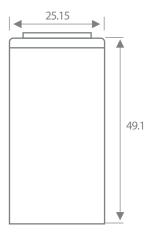


Advanced Rechargeable Technology and Solutions



Typical performances

For graphs shown, C is the IEC₅ 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.

