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).

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

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

ELECTRICAL CHARACTERISTICS	
Nominal voltage (V)	1.2
Typical capacity (mAh)*	2650
IEC minimum capacity (mAh)*	2500
IEC designation	KRMU 26/50
Impedance at 1000 Hz (mΩ)	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)	68

Dimensions are given for bare cells.

CHARGE CONDITIONS	Time (h)	Temp. (°C)	Current
Standard	16	+5 to +55	C/10
Permanent		+5 to +55	C/20

DISCHARGE CONDITIONS	Temp. (°C)	Current
	+5 to +55	7.5A max

CYCLING CONDITIONS	
ELU applications	1 discharge / month MAX
Back up applications	Consult ARTS Energy

APPLICATIONS

- Emergency lighting
- Back-up systems
- Security devices

MAIN BENEFITS

- Permanent charge
- Good charge efficiency at high temperature
- Superior robustness
- Long life duration

TECHNOLOGY

- Plastic bonded positive electrode
- Plastic bonded negative electrode

NI-CD

VNT C U

High Temperature Series

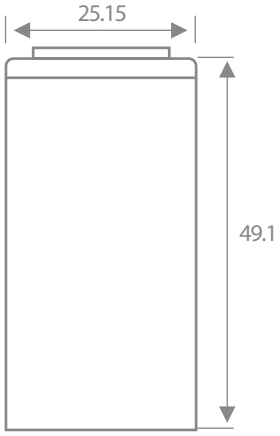
VNT C U

High Temperature Series

STORAGE

Recommended: + 5°C to + 25°C
Relative humidity: 65 ± 5 %

TYPICAL DIMENSIONS



Typical dimensions (mm). Without tube.

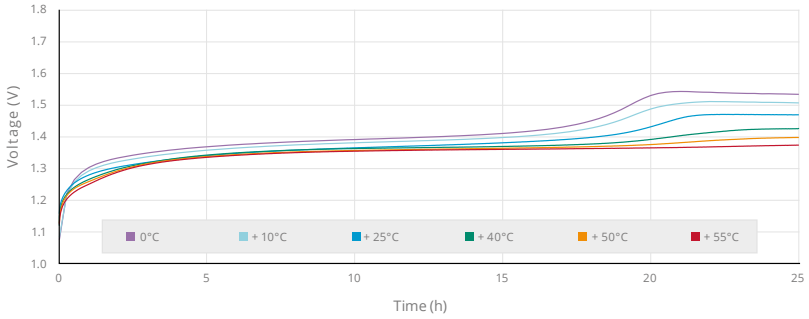
The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy.

Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

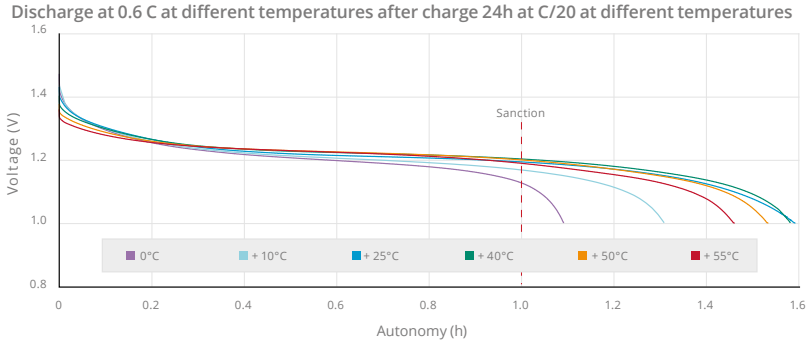
Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy.

For graphs shown, C is the IEC_5 capacity.

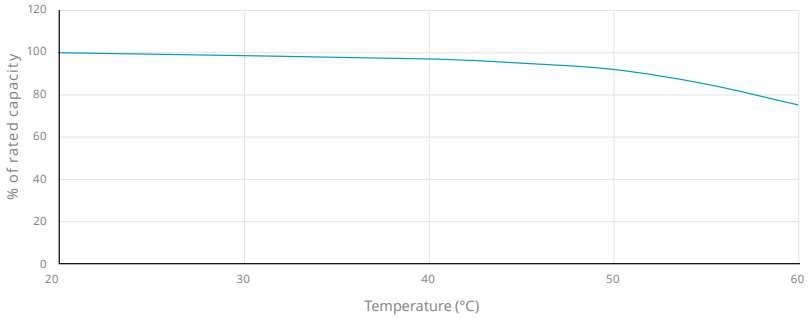
Charge 24h at C/20 at different temperatures



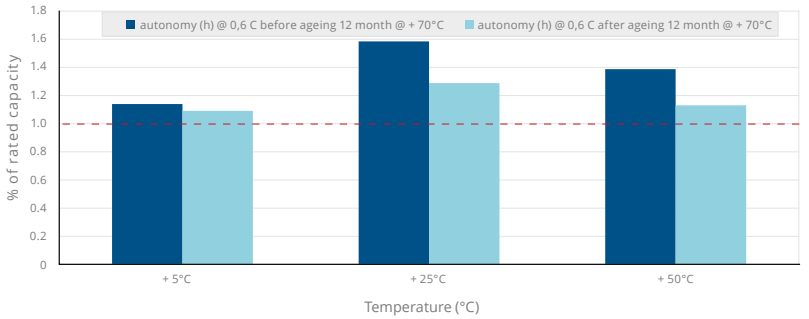
Discharge at 0.6 C at different temperatures after charge 24h at C/20 at different temperatures



Charge efficiency after charge at C/20 and discharge at C/5 at different temperatures



12 months at + 70°C simulates 4 years at + 50°C



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