VT 1/2 D High Temperature Series

ARTS Energy's VT 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 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
- Permanent charge
- Good storage retention

Technology

Sintered positive electrode

Plastic bonded negative electrode

Temperature range in discharge

- 20°C to + 70°C

Storage

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



Electrical characteristics			
Nominal voltage (V)			1.2
Typical capacity (mAh)*			2500
IEC minimum capacity (mAh)*			2200
IEC designation			KRMT 33/36
Impedance at 1000 Hz (mΩ)			10
* Charge 16 h at C/10, discharge at C/5.			
Dimensions			
Diameter (mm)			32.15 ± 0.1
Height (mm)			36.2 ± 0.4
Top projection (mm)			1.4 ± 0.4
Top flat area diameter (mm)			5.6
Weight (g)			80
Dimensions are given for bare cells.			
Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard	16	+ 15 to + 55	220
Permanent		+ 15 to + 55	110
Trickle*			55 to 110
End of charge cut-off is requested: -dV or dT°C/dt.	* Trickle cha	arge follows fast charge	2.
Maximum discharge current			
Continuous (A) at + 20°C			7.7
Peak (A) at + 20°C*			65
* Peak duration: 0.3 second - final discharge voltage 0.6	5 volt/cell		

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

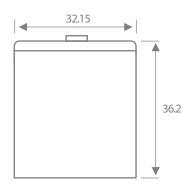


Advanced Rechargeable Technology and Solutions

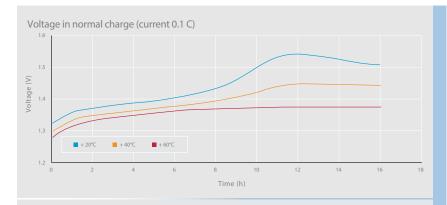


Typical performances

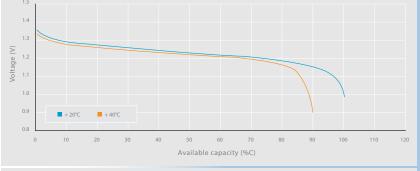
For graphs shown, C is the $\mathsf{IEC}_{\scriptscriptstyle S}$ capacity.

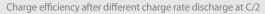


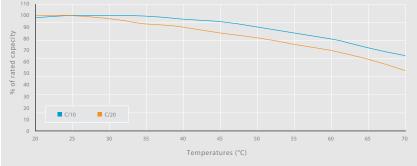
Dimensions are in mm.



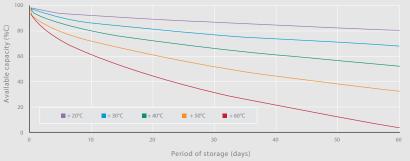








Charge retention (between $+ 20^{\circ}C$ and $+ 60^{\circ}C$)



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.



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