

VRE 1/2 D

Standard Series

ARTS Energy's VRE Ni-Cd series are perfectly suited to cycling applications. It is designed to accept a permanent charge at temperatures up to + 35° 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

- Professional electronics
- Cordless communication systems
- Home appliances

Main advantages

- High energy series giving a higher operating time
- Good storage retention
- Quick charge
- Cycling application

Technology

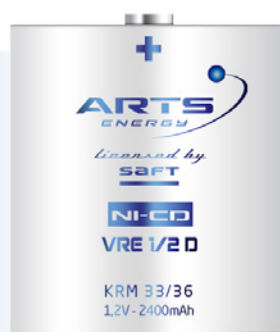
- Sintered positive electrode
- Plastic bonded negative electrode

Temperature range in discharge

- 20°C to + 60°C

Storage

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



Electrical characteristics			
Nominal voltage (V)	1.2		
Typical capacity (mAh)*	2550		
IEC minimum capacity (mAh)*	2400		
IEC designation	KRM 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 ± 0.1		
Weight (g)	80		
Dimensions are given for bare cells.			
Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Quick*	2 - 3	+ 5 to + 45	up to 800
Standard*	16	0 to + 50	240
Trickle**			60 to 120
* End of charge cut-off is requested: -dV or dT°C/dt.		** Trickle charge follows quick charge.	
Maximum discharge current			
Continuous (A) at + 20°C	24		
Peak (A) at + 20°C*	75		
* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.			

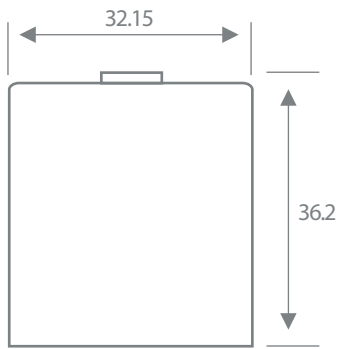


Advanced Rechargeable Technology and Solutions



Typical performances

For graphs shown, C is the IEC₅ capacity.

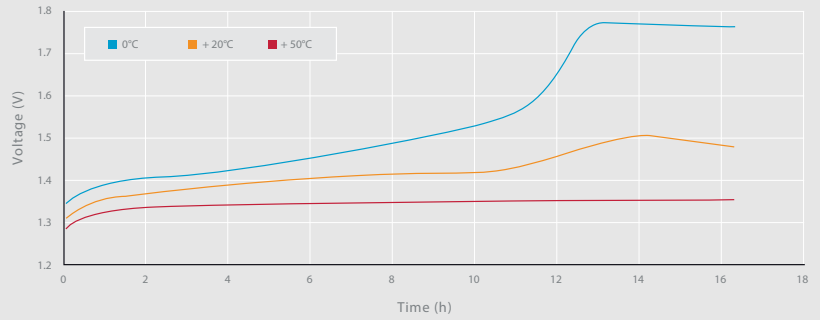


Dimensions are in mm.

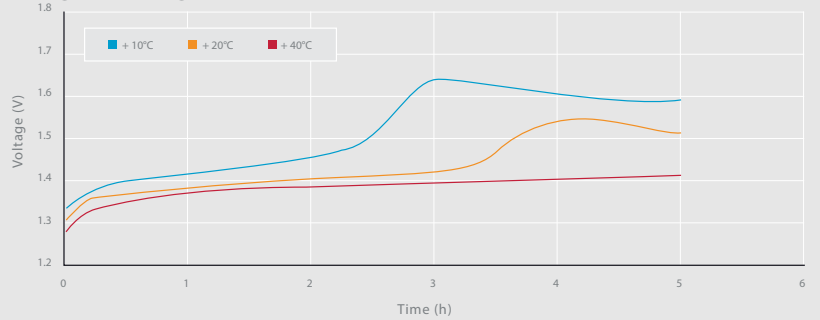
Data are given for single cells. Please consult ARTS Energy for utilization of cell outside this specification.

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

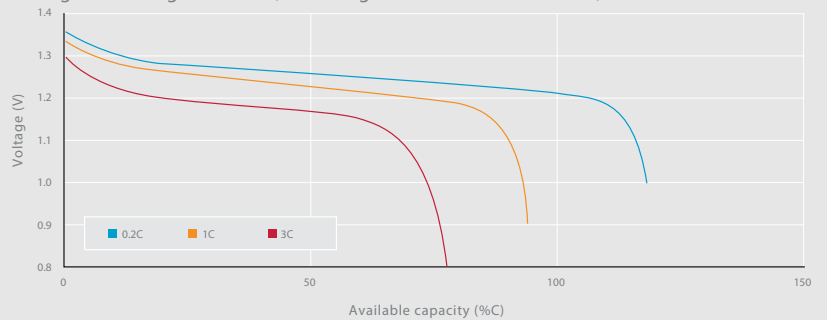
Voltage in normal charge (current 0.1 C)



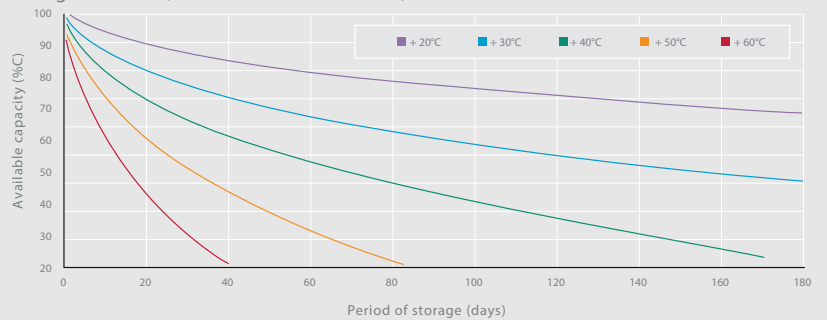
Voltage in fast charge (current 0.3 C)



Voltage in discharge at + 20°C (after charge 0.1 C x 16 hours at + 20°C)



Charge retention (between + 20°C and + 60°C)



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