

# VRE C

## Standard Series

ARTS Energy's VRE standard Ni-Cd series are perfectly suited to cycling applications. It is designed for a wide range of applications requiring a high level of robustness.

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
- Radio controls and toys

### 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)*	2300		
IEC designation	KRM 26/50		
Impedance at 1000 Hz (mΩ)	5		
* Charge 16 h at C/10, discharge at C/5.			
Dimensions			
Diameter (mm)	25.15 ± 0.15		
Height (mm)	49.1 ± 0.4		
Top projection (mm)	0.8 ± 0.2		
Top flat area diameter (mm)	12.0 ± 0.1		
Weight (g)	75		
Dimensions are given for bare cells.			
Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	3 to 4	+ 10 to + 45	up to 800
Standard	16	0 to + 50	230
Trickle**			80
* End of charge cut-off is requested: -dV or dT°C/dt.		** Trickle charge follows fast charge.	
Maximum discharge current			
Continuous (A) at + 20°C	12		
Peak (A) at + 20°C*	130		
* Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.			

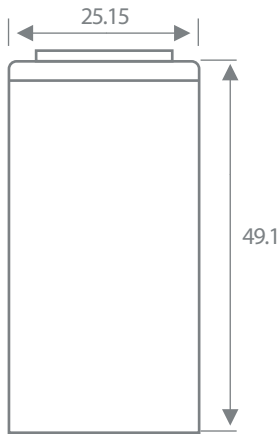


Advanced Rechargeable Technology and Solutions



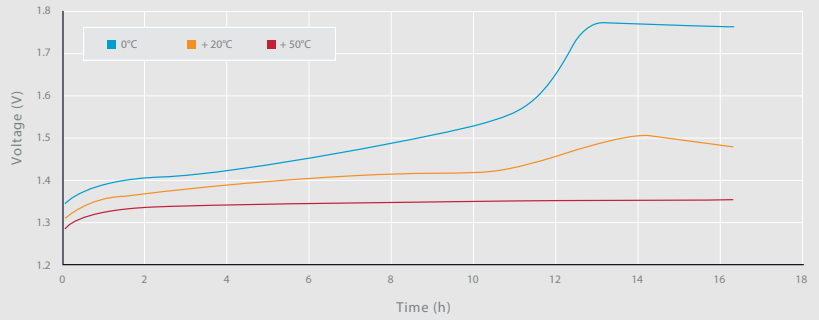
## Typical performances

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

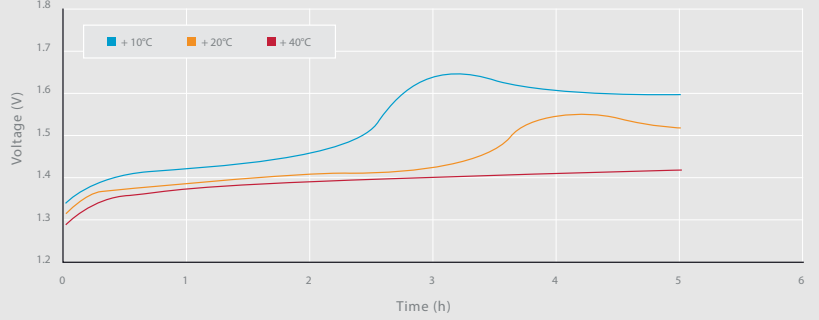


Dimensions are in mm.

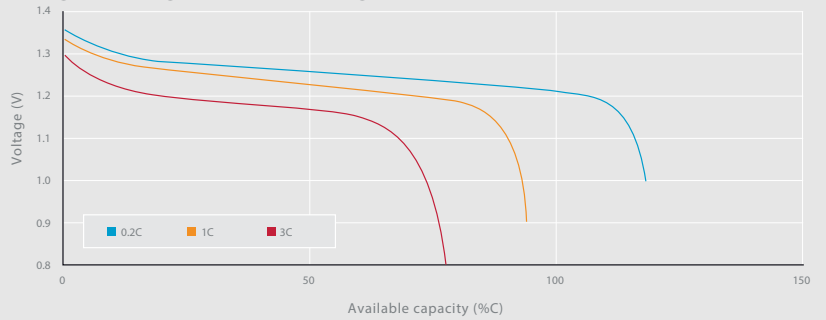
Voltage in normal charge (current 0.1 C)



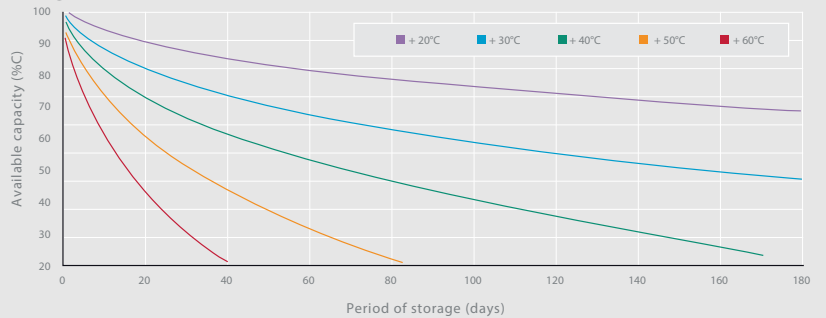
Voltage in fast charge (current 0.3 C)



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)



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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