

Ni-Cd VRE F



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 standardised battery packs**.

For your battery design and system needs, please **contact ARTS Energy**.



ELECTRICAL CHARACTERISTICS

• Nominal voltage (V)	1.2
• Typical capacity (mAh)*	8800
• IEC minimum capacity (mAh)*	8000
• IEC designation	KRH 33/91
• Impedance at 1000 Hz (mΩ)	< 4

* Charge 16 h at C/10, discharge at C/5.

DIMENSIONS

• Diameter (mm)	32.15 ± 0.10
• Height (mm)	88.8 ± 0.4
• Top flat area diameter (mm)	5.6 ± 0.1
• Weight (g)	221

Dimensions are given for bare cells.

CHARGE CONDITIONS

• Fast	0 to +40	2.7A max
• Topping (after fast charge)	0 to +40	Consult ARTS Energy
• Trickle (after topping)	0 to +40	Consult ARTS Energy
• Charge below 0°C	-40 to 0	Consult ARTS Energy

End of Fast charge cut-off is requested: $-dV$ or $dT^{\circ}C/dt$

DISCHARGE CONDITIONS	Temp. (°C)	Current
	10 to +60	40A max
	-30 to +60	1C max
	-40 to -60	C/2 max

CYCLING CONDITIONS

• Full cycle (100% DOD)	> 1000 cycles
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APPLICATIONS

- Professional electronics
- Professional lighting equipment
- Military equipment

MAIN BENEFITS

- Excellent cycling performance
- High power
- Superior robustness
- Extreme low temperatures (-40°C)

TECHNOLOGY

- Sintered positive electrode
- Plastic bonded negative electrode





TYPICAL DIMENSIONS



Typical dimensions (mm). Without tube.

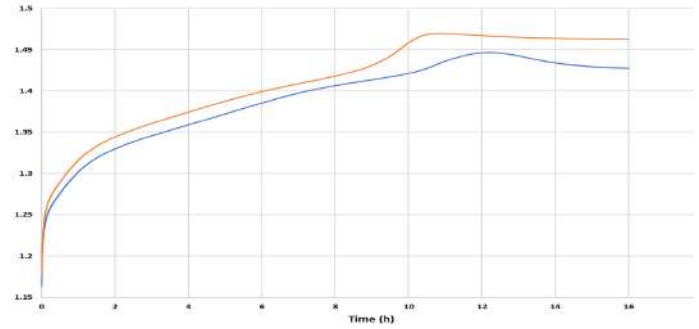
STORAGE

Recommended: + 5°C to + 25°C

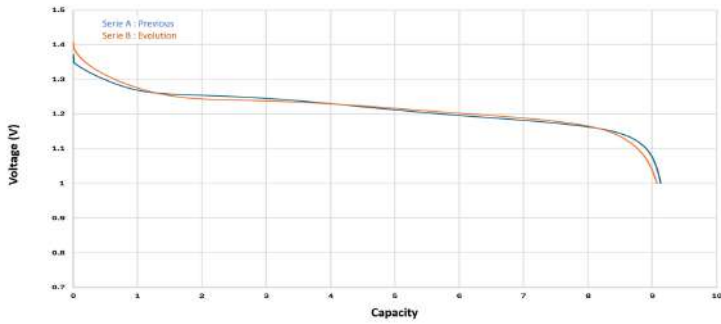
Relative humidity: 65 ± 5 %

Performances

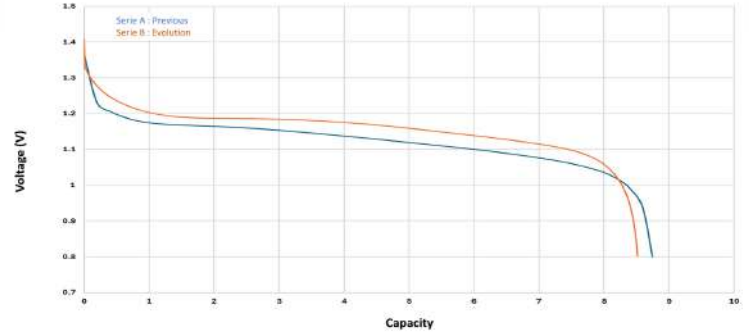
Charge 20°C
C/10



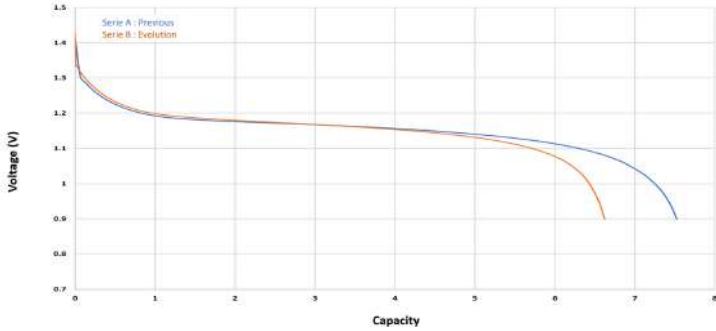
Discharge 20°C
C/5



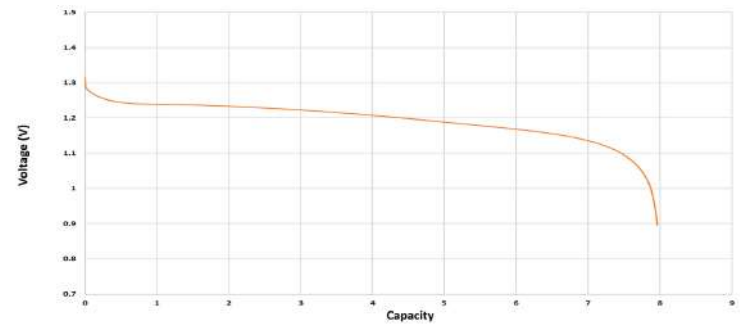
Discharge 20°C
3C



-18°C
C



50°C
C



Cycling

