ARTS

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's engineers.

#### **№** 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

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 projection (mm)		$1.4 \pm 0.4$
Top flat area diameter (mm)		5.6 ± 0.1
Weight (g)		221
Dimensions are given for bare cells.		
CHARGE CONDITIONS	Temp. (°C)	Current
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°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	Cycling	Life duration
	Full cycles (100% DOD)	> 1000 cycles

NI-CD VRE F

KRH 33/91 1.2V - 8Ah



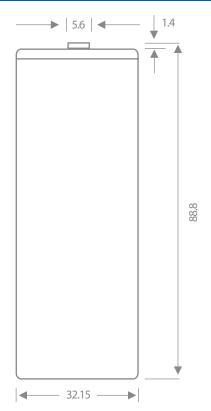
# VRE F Standard Series

## VRE F Standard Series

## STORAGE

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

## **MI 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.

10, rue Ampère Zone Industrielle - 16440 Nersac, France Tél. +33(0)5 45 90 35 52 /35 53 contact@arts-energy.com

Doc No.: 030-A-0417 - Edition: April 2017 ARTS Energy SAS. Stock capital 971.002 RCS Angoulême 792 635 013 Conception in FR by Alain Bruneaud Création

www.arts-energy.com

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

