# VRE F

# 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 electronic devices
- Lighting equipment
- Military equipment

# **Main advantages**

- Super high capacity
- Quick charge
- Good storage ability
- Excellent cycling performance

#### **Technology**

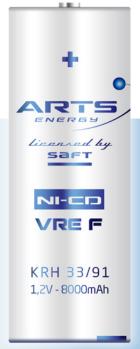
- Sintered positive electrode
- Plastic bonded negative electrode

## Temperature range in discharge

- 40°C to + 60°C

#### **Storage**

Recommended: + 5°C to + 25°C Relative humidity: 65  $\pm$  5 %



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.	

Charge To Trace, To, discharge at C/3.	
Dimensions	
Diameter (mm)	32.15 ± 0.10
Height (mm)	$88.8 \pm 0.4$
Top projection (mm)	$1.4 \pm 0.4$
Top flat area diameter (mm)	5.6 ± 0.1
Weight (g)	220
Dimensions are given for bare cells.	

Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~3	+ 10 to + 40	up to 2700
Standard	16	+ 5 to + 50	800
Trickle**			200
* End of charge cut-off is requested: -dV or dT°C/dt.	** Trickle charge follows fast charge.		ge.
Maximum discharge current			

Maximum discharge current	
Continuous (A) at + 20°C	40
Peak (A) at + 20°C*	160

<sup>\*</sup> Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.

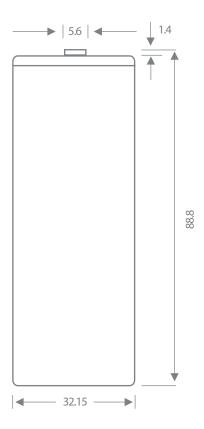


Advanced Rechargeable Technology and Solutions



# **Typical performances**

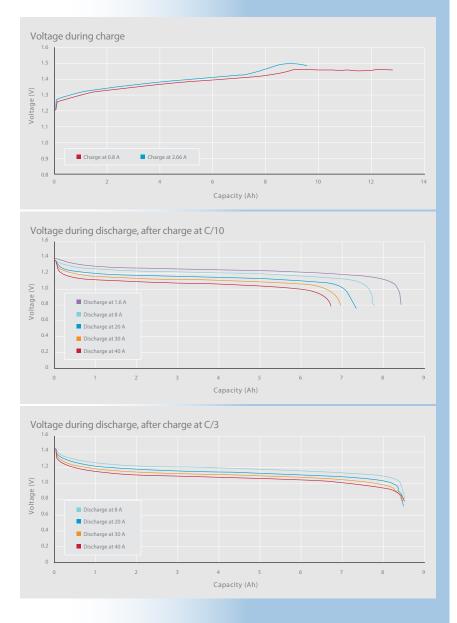
For graphs shown, C is the IEC<sub>5</sub> capacity.



Dimensions are in mm.

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.





10, rue Ampère Zone Industrielle 16440 Nersac, France Tél. +33(0)5 45 90 35 50 www.arts-energy.com