

# VRE D 5500

## 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

- Electric bicycles, scooters & wheelchairs
- Professional appliances
- Professional lighting
- Lawn and gardening tools
- Vacuum cleaners

### Main advantages

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

### 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)*	5500
IEC minimum capacity (mAh)*	5000
IEC designation	KRHR 33/62
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)	58.2 ± 0.4
Top projection (mm)	1.4 ± 0.4
Top flat area diameter (mm)	5.6 ± 0.1
Weight (g)	150

Dimensions are given for bare cells.

Charge conditions Rate	Time (h)	Temp. (°C)	Charge current (mA)
Fast*	~1	+ 10 to + 40	up to 5000
Standard	16	5 to + 50	500
Trickle**			150

\* 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	50
Peak (A) at +20°C*	150

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

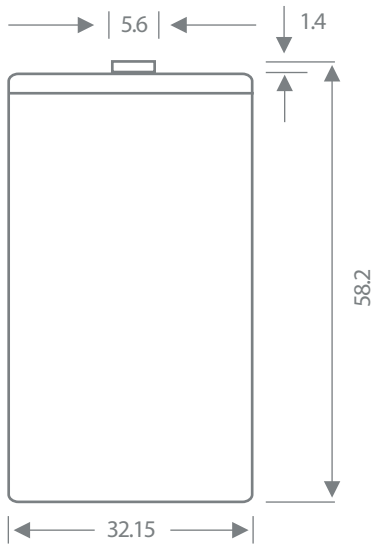


Advanced Rechargeable Technology and Solutions



## Typical performances

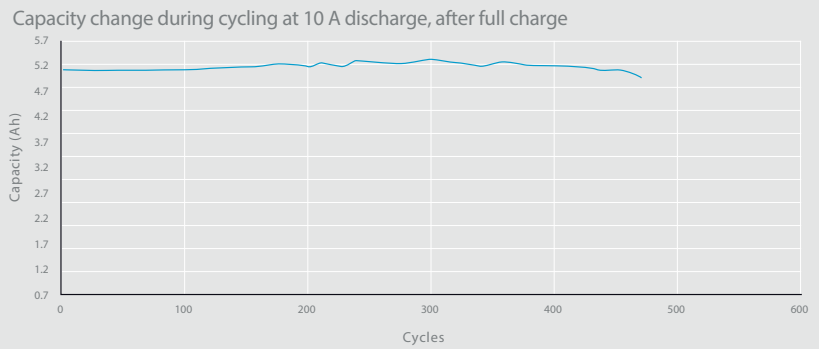
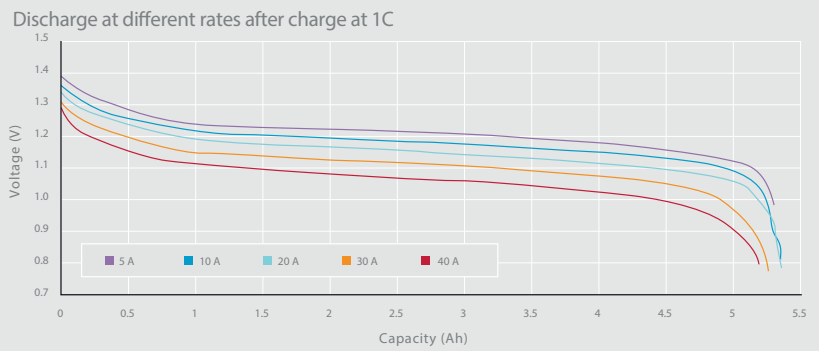
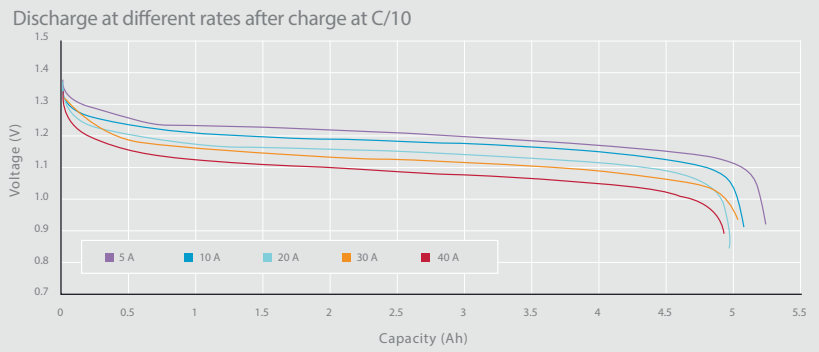
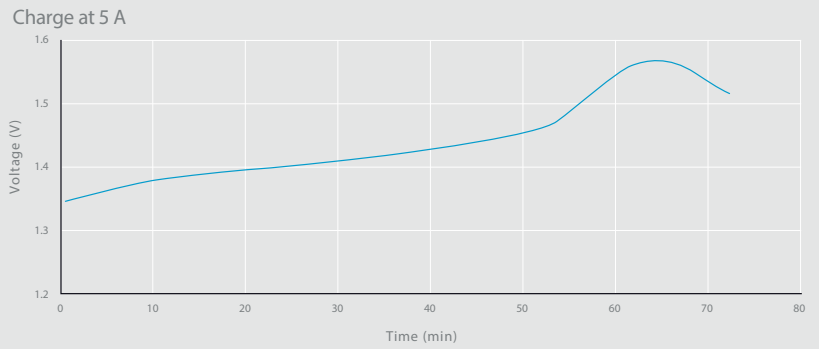
For graphs shown, C is the IEC<sub>5</sub> capacity.



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](http://www.arts-energy.com)