VH Cs 3200 XL Super High Energy series

ARTS Energy's VH super high energy Ni-MH series are perfectly suited to cordless power tool applications requiring a fast charge and a high discharge rate. It is also designed for energy applications, thanks to its excellent capacity of 3.2 Ah.

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

- Cordless power tools
- Professional appliances
- Professional flashlights
- Personal electric vehicles
- Radio control models
- Vacuum cleaners

Main advantages

- Super high capacity
- Excellent cycling performance
- High mid-discharge voltage
- Extended storage capability

Technology

- Foam positive electrode
- Metal-hydride negative electrode
- Innovative mechanical closure process

Temperature range in discharge

- 10°C to + 40°C

Storage

Recommended: $+5^{\circ}C$ to $+25^{\circ}C$ Relative humidity: $65 \pm 5 \%$



Electrical characteristics			
Nominal voltage (V)			1.2
Typical capacity (mAh)*			3200
IEC minimum capacity (mAh)*			3000
IEC designation			HRX 23/43
Impedance at 1000 Hz (mΩ)			<4
* Charge 16 h at C/10, discharge at C/5.			
Dimensions			
Diameter (mm)			22.0 ± 0.05
Height (mm)			42.7 ± 0.2
Top projection (mm)			0.8 ± 0.2
Top flat area diameter (mm)			9.0 min
Weight (g)			58
Dimensions are given for bare cells.			
Charge conditions Rate	e Time (h)	Temp. (°C)	Charge current (mA)
Fast	1-2	0 to + 35	up to 3000
Standard	16	0 to + 40	300
Topping	(after a main charge)		200 to 300
Trickle	(after topping)		80 to 100
End of charge cut-off is requested: dT/dt recommended, -dV acceptable.			
Maximum discharge current			
Continuous (A) at + 20°C			40
Peak (A) at + 20°C*			150

* Peak duration: 0.3 second - final discharge Voltage 0.6 Volt/Cell



Advanced Rechargeable Technology and Solutions



Typical performances

For graphs shown, C is the IEC_{5} capacity.

















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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