

# Ni-MH 33600 VHP6



ARTS Energy's VHP High Power Ni-MH series the most powerful Ni-MH D cell in the world. Its exceptional robustness giving the opportunity to, operate in the toughest industrial conditions.

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 (Ah)	6
• IEC minimum capacity (Ah)	5.8
• Nominal Energy (Wh)	7.2
• IEC designation	HRXR 33/61
• Impedance at 1000 Hz (mΩ)	1.1

## DIMENSIONS

• Diameter (mm)	32.5 ± 0.5
• Height (mm)	60.2 ± 0.5
• Weight (g)	160

## PERFORMANCES

• Max. continuous discharge current	25C
• Max. continuous charge current	20C
• Max. instantaneous discharge current	230A
• Max. instantaneous charge current	180A
• Cycle life	> 3000 cycles (80% DOD)
• Operating life (Ah)	> 40 000
• Storage temperature	-40°C to 65°C
• Storage temperature	-30°C to 65°C

## SAFETY

• Over discharge test	- No explosion, non-flammable and no leakage
• Overcharge test	- No explosion, non-flammable
• Short circuit test	- No explosion, non-flammable
• Heating test	- No explosion, non-flammable
• Crush test	- No explosion, non-flammable
• Impale test	- No explosion, non-flammable

## APPLICATIONS

- Automate Guided Vehicle (AGV)
- Hybrid systems (HEV)
- Boat
- Peak shaving
- Forklift
- Cleaning machines
- Elevators

## MAIN BENEFITS

- Exceptional fast charge (3 min charge)
- Long life duration (>3000 cycles @ 80% DOD)
- Safe technology (non-flammable)

## TECHNOLOGY

- Foam positive electrode
- Plastic bonded metal-hybride negative electrode



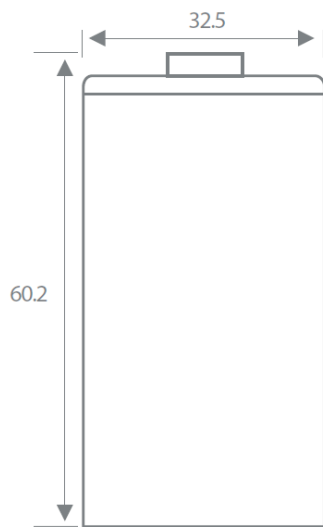


## STORAGE

Recommended: + 5°C to + 25°C

Relative humidity: 65 ± 5 %

## TYPICAL DIMENSIONS



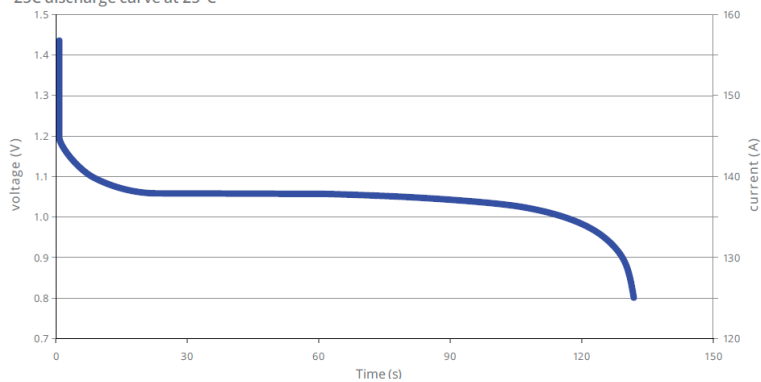
Typical dimensions (mm). Without tube.

The operation of the battery must strictly be in accordance with ARTS Energy technical recommendations, to obtain the performances stated by ARTS Energy.

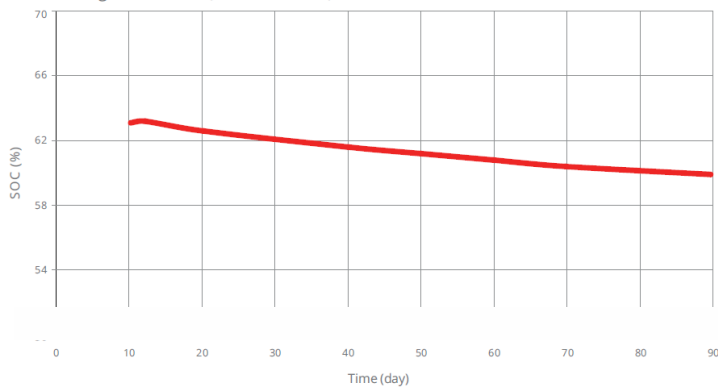
Data is given for single cells. Please consult ARTS Energy for utilisation of cells outside specification.

Data in this document is subject to change without notice and become contractual only after written confirmation by ARTS Energy

25C discharge curve at 25°C



Self discharge rate at 25°C (initial SOC=65%)



Capacity Vs Temperature

