High Temperature Series

Nickel-Cadmium VNT C U

The new VNT U series benefits from the latest innovation on Saft's PNE (plastic bonded nickel electrode) technology. The VNT U series operates until + 55°C but also brings an improvement at low temperature, suiting perfectly with severe outdoor applications.

VNT C U is specially designed to accept a permanent charge in high temperature environments such as emergency lighting equipment. VNT C U offers at least 4 years of life duration at an average temperature up to + 50°C in accordance to the IEC 61951-1 standard (U type cells).

To meet customers' requirements, Saft provides custom-designed and standardized battery packs.

For your battery design and system needs, please contact Saft's engineers.

Applications

- Emergency lighting
- Memory back-up systems
- · Security devices

Main advantages

- Good charge efficiency at high temperature
- Good autonomy at low temperature
- Permanent charge
- Good storage retention
- Long life duration at high temperature

Technology

- Plastic-bonded positive electrode
- Plastic-bonded negative electrode

Temperature range in discharge

- 20° C to + 70° C



Electrical characteristics	
Nominal voltage (V)	1.2
Typical capacity (mAh)*	2650
IEC minimum capacity (mAh)*	2500
IEC designation	KRMU 27/50
Impedance at 1000 Hz (m Ω)	8

^{*} Charge 16 h at C/10, discharge at C/5.

Dimensions	
Diameter (mm)	25.15 + 0.2/- 0.15
Height (mm)	49.1 ± 0.4
Top projection (mm)	0.8 ± 0.2
Top flat area diameter (mm)	12 ± 0.1
Weight (g)	75

Dimensions are given for bare cells.

Charge conditions			
Rate	Time (h)	Temp. (°C)	Charge current (mA)
Standard *	16	+ 15 to + 55	250
Permanent		+ 15 to + 55	125
Trickle **			62 to 125

^{*} End of charge cut-off is requested: timer, coulomb meter.

^{* *} Trickle charge follows full charge.

Maximum discharge current	
Continuous (A) at + 20°C	8.5
Peak (A) at + 20°C*	100

 $^{^{\}star}$ Peak duration: 0.3 second - final discharge voltage 0.65 volt/cell.



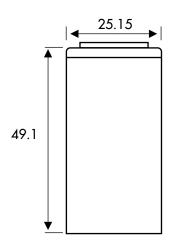
Storage

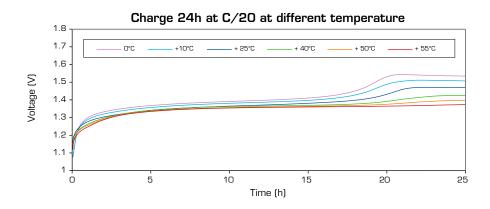
Recommended: $+ 5^{\circ}\text{C}$ to $+ 25^{\circ}\text{C}$ Relative humidity: $65 \pm 5 \%$

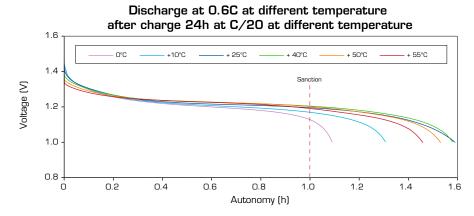
Typical performances

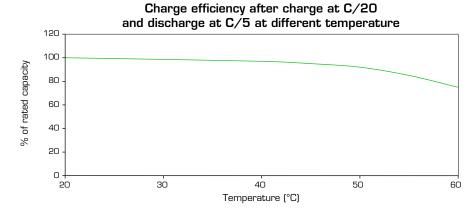
For graph shown, C is the IEC_5 capacity.

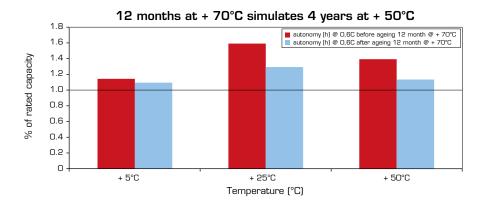
Dimensions in mm.













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