

Ni-Cd batteries

High Temperature

VT / VST / VNT / VNT U / ARTS Energy ecolife series

ARTS Energy's high temperature Ni-Cd series are perfectly suited to emergency and security equipment applications in compliance with International (IEC 61951), US (UL 924) and Japanese (JISC 8705) standards.

They are designed to accept a permanent charge (C/20 to C/15) for a minimum of four years in high temperature environments (up to +40°C / 104°F).

Higher-end versions of the cells, such as the «U» and «70» models, can even withstand a constant temperature of up to +55°C / 131°F with a similar life expectancy when permanently charged. The VNT / VNT U series benefit from ARTS Energy's innovative PNE (Plastic bonded Nickel Electrode) technology which provides improved energy density and an excellent resistance to cold weather conditions.

ARTS Energy ecolife series serve your emergency lighting project with their greatly reduced environment impact and their greatly extended service life of 8 years. A product Life Cycle Assessment is carried out on all the following phases: raw material extraction, manufacturing, distribution and use.

A Product Environmental Profile (PEP) is available upon request.

	ARTS Energy type		IEC capacity at 0.2C rate		Standard charge (16h)	Permanent charge		Typical internal impedance	Max. dimensions for bare cells		Typical weight
	Nominal voltage 1.2 volts/cell	Top	Typical [mAh]	Minimum [mAh]	Current [mA]	Current [mA]	Time [h]	[mΩ]	Diameter [mm]	Height [mm]	[g]
VT	VT 1/2 D ⁽¹⁾	L	2500	2200	220	110	-	10	32.2	36.8	80
	VT F ⁽¹⁾	H	7500	7000	700	350	-	5	32.2	91.1	196
	VT F 70 ⁽²⁾	L	7700	7000	700	350	-	5	32.2	89.2	196
VST	VST AA ⁽¹⁾	L	860	800	80	40	-	30	14.0	49.3	26
VNT	VNT CS ⁽¹⁾	L	1650	1600	160	80	-	8	22.2	42.2	45
	VNT D ⁽¹⁾	H	4250	4000	400	200	-	6	32.2	60.3	115
VNT U	VNT Cs U ⁽²⁾	L	1650	1600	160	80	-	8	22.2	42.2	45
	VNT C U ⁽²⁾	L	2650	2500	250	125	-	8	25.3	49.5	75
	VNT D U ⁽²⁾	H	4250	4000	400	200	-	6	32.2	60.3	115
	VNT D U HC ⁽²⁾	H	4500	4200	420	200	-	6	32.2	60.3	124
ARTS Energy ecolife	ecolife AA ⁽¹⁾	L	650	600	60	30	-	30	14.0	49.3	26
	ecolife Cs ⁽¹⁾	L	1570	1500	150	75	-	8	22.2	42.2	45
	ecolife D ⁽¹⁾	H	4250	4000	400	200	-	6	32.2	60.3	115

(1) Up to +40°C temperature environment

(2) Up to +55°C temperature environment

