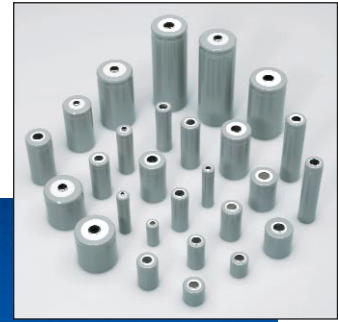


DMS technologies

Nickel Cadmium (NiCd) Battery Packs and Custom Designs



DMS technologies is a supplier of NiCd batteries, which provide superior performance within a wide range of applications. These cells have low internal resistance giving them a stable voltage profile during high rate discharge in cyclic and standby applications. These versatile batteries are available in an extensive range of capacities, sizes and configurations.

Our cells can be built into any configuration to best fit the available space, and if requested can incorporate safety devices such as diodes, fuses and temperature sensors. Our custom built packs are designed to meet all customer specific requirements regarding configuration, termination, connectors and packaging.

High temperature options are available in popular cell sizes.

MAIN BENEFITS

- High discharge current capability
- Excellent cycle life
- Long service life
- Install in any orientation
- Quick charge capability
- Sealed – no maintenance
- Excellent shock resistance
- Can be stored discharged

BATTERY POWER FOR:

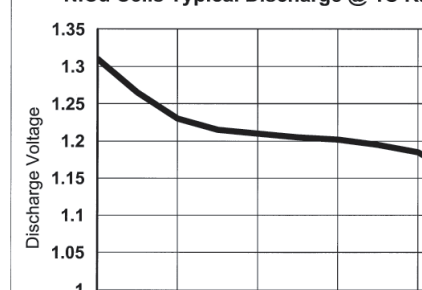
- Medical
- Safety and Security
- Electronics
- Industry
- Emergency Lighting
- Power Tools
- Instrumentation
- Electrical

DMS technologies

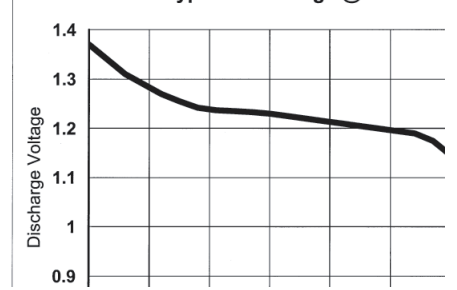
NICKEL CADMIUM (NiCd) – TECHNICAL DATA

Can Size	Capacities Available (mAh) Nominal Voltage 1.2V
AAA	240-320
AAA 1/4	50
AAA 1/2	130
AAA 2/3	150-170
AA	600-1000
AA 1/3	150-170
AA 2/3	270-400
AA 4/5	600-650
AA 7/5	1000-1200
A	1200-1400
A 1/3	210-240
A 1/2	500-650
A 2/3	700-750
A 4/5	1000-1200
A 7/5	1800-2000

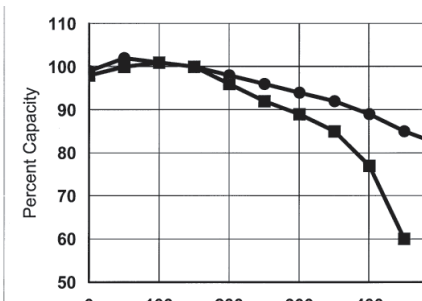
NiCd Cells Typical Discharge @ 1C Rate - 20°C



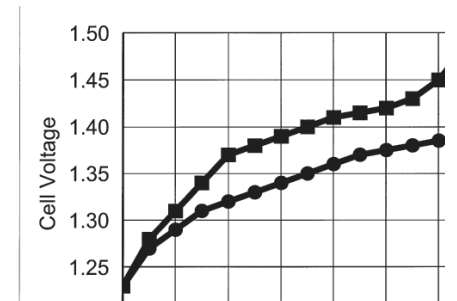
NiCd Cells Typical Discharge @ 0.2C Rate - 20°C



NiCd Cells Cycle Life & Capacity



NiCd Cells Charging Characteristics - 20°C



SC	1200-2000
SC 1/2	750-800
SC 4/5	1000-1200
SC 5/4	2000-2300
C	2200-2800
C 1/2	1300
C 1/3	700
D	1500-5000
D 1/2	2200-2500
F	7000-7500
N	180-220

Charging (Constant current)

Trickle	0.05 CA	48 Hours - constant
Standard	0.1 CA	14-16 Hours
Quick	0.3 CA	4 Hours

- Maximum cell voltage should be considered to be 1.7 volts
- $-\Delta V$ termination should be set at 20-30 mV/cell
- DT/dt termination should be 0.5°C/minute

A wide range of chargers for your NiCd batteries are available from DMS technologies

High Temperature Cells

AA	800
SC	1300-1500
C	2200-2500
D	4000-4400

Design, Development, Manufacture and Supply of Batteries and Power Systems

Note: Other capacities and cells may be available on request. Contact our Sales Department for further information.

DMS technologies

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P0045 Aug.2003

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