

# Secondary Battery

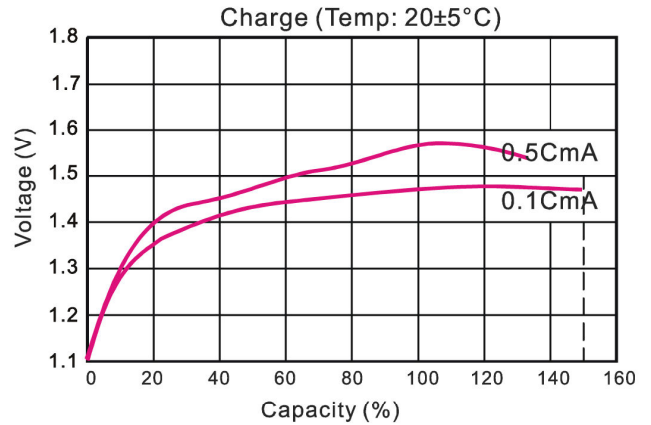
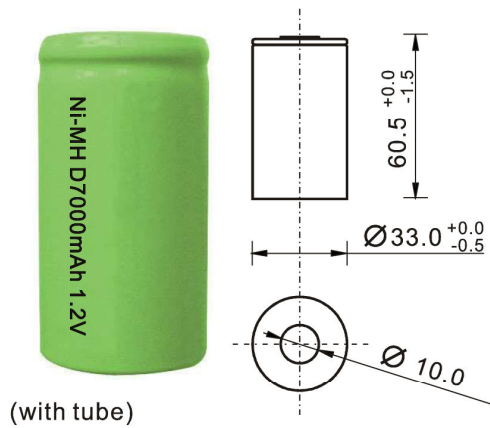
## Ni-MH Battery



Document Title: TH-D7000C 1.2V

Revision: A/0

Page 1 of 1



<b>Type:</b> Rechargeable Nickel Metal Hydride Cylindrical Cell		
<b>Nominal Dimension:</b> $\Phi=33.0\text{mm}$ H=60.5mm		
<b>Applications:</b> Recommended discharge current 700 to 1400mA		
<b>Nominal Voltage:</b> 1.2V		
<b>Capacity: (mAh)</b> When discharged to 1.0V at 20°C	Discharge current	Minimum
	1400mA(0.2C)	$\geq 300\text{mins}$
	3500mA(0.5C)	$\geq 110\text{mins}$
	7000mA(1C)	$\geq 50\text{mins}$
<b>Charge Retention:</b> 65% of nominal capacity after cell storage at 20°C for 28 days. When discharged at 1400mA to 1.0V at 20°C		
<b>Charge Condition:</b> 700mA for 16hrs at 20°C		
<b>Fast Charge:</b> 1400mA to 3500mA (0.2C to 0.5C) charge termination control recommended control parameters: - $\Delta V$ : 5mV DT/dt : 0.8°C/min(0.2C to 0.5C) TCO : 45-50°C Timer : 120% nominal input (for ref.only)		
<b>Service Life:</b> >500 Cycles (IEC standard)		
<b>Continuous Overcharge:</b> 700mA maximum current for 48 hrs. No conspicuous deformation and/or leakage		
<b>Approx Weight:</b> 144g		
<b>Internal Resistance:</b> Average 12m $\Omega$ upon fully charged Rance 10-15m $\Omega$ at 1000Hz		
<b>Max. Charging Voltage:</b> 1.65V at 1400mA charging.		
<b>Ambient temperature Range:</b>	Standard charging	0°C to 45°C
	Fast charging	10°C to 40°C
	Discharging	-20°C to 60°C
	Storage	-20°C to 30°C

