

SANYO Ni-Cd Batteries

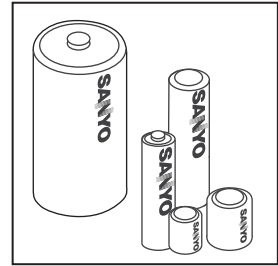
Nickel-Cadmium (Ni-Cd) batteries use nickel oxide in its positive electrode (cathode), a cadmium-compound in its negative electrode (anode), and potassium hydroxide solution in its electrolyte. The Nickel-Cadmium battery is rechargeable, so you can use it over and over.

Features: • Discharge rate remains stable even in conditions of high-rate discharge current – for equipment needing a high-rate discharge current, it is far more stable than other battery types • Wide operating temperature range of -20°C – 60°C – operates especially well in low temperatures • Performance does not deteriorate even after long-term storage – full recovery of original performance levels after recharging • Designed to withstand overcharge and overdischarge – superior durability • Sealed configuration with gas release vent – easy maintenance and no leakage • Produced using an ISO9000 certified quality control system – high quality and reliability

Applications: • Cellular phones, telecommunications equipment • Portable audio-visual equipment • Emergency lights • Electric tools • Battery-powered vehicles

Notes: • Recycling information available on Digi-Key website.
• See previous page for Battery Pack information.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.



Size	Volt- age (V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Std. Charge @ 14 – 16 hrs. (mA)	(Control Req.) Quick Charge (hrs.)	Digi-Key Part No.	(Regular Version)			(Solder Tabbed Version)			Sanyo Part No.		
								1	Pricing 10	Carton	1	Pricing 10	Carton			
1/3AA	1.2	110	0.55 x 0.66 (14.0 x 16.7)	0.252 (7)	11	33	4 – 6	SY106-ND†	1.95	17.55	2028.00/2,000	SY106T-ND	2.25	20.25	2340.00/2,000	N-110AA
2/3AA	1.2	270	0.55 x 1.16 (14.0 x 29.5)	0.49 (14)	27	81	4 – 6	SY107-ND†	1.78	15.98	1476.80/1,600	SY107T-ND	2.08	18.68	1726.40/1,600	N-270AA
AA	1.2	700	0.54 x 1.95 (13.8 x 49.5)	0.81 (23)	70	210	4 – 6	SY114-ND†	1.75	15.75	840.00/1,000	SY114T-ND	2.05	18.45	984.00/1,000	N-700AA
AA	1.2	700	0.54 x 1.90 (13.8 x 48.2)	0.81 (23)	70	210	4 – 6	SY114-ND†	1.75	15.75	840.00/1,000	SY114T-ND	1.78	15.98	852.00/1,000	N-700AAC
AA	1.2	900	0.54 x 1.95 (13.8 x 49.5)	0.81 (23)	90	1350	1	SY116-ND†	2.33	20.93	837.00/600	SY116T-ND	2.63	23.63	1512.00/600	KR-900AAEC
AA	1.2	1,100	0.54 x 1.95 (13.8 x 49.5)	0.85 (24)	110	220	7 – 8	SY109-ND	2.58	23.18	927.00/600	SY109T-ND	2.88	25.88	1035.00/600	KR-1100AAU
23A	1.2	500	0.65 x 1.09 (16.5 x 27.8)	0.67 (19)	50	150	4 – 6	SY117-ND†	2.33	20.93	1116.00/1,000	SY117T-ND	2.63	23.63	1260.00/1,000	N-500A
4/5A	1.2	1,500	0.65 x 1.65 (16.5 x 42.0)	1.09 (31)	150	2300	1	SY110-ND†	4.20	37.80	1512.00/600	SY110T-ND	4.50	40.50	1620.00/600	KR-1500AUL
A	1.2	1,700	0.65 x 1.91 (16.5 x 48.5)	1.27 (36)	170	2600	1	SY112-ND†	4.33	38.93	1557.00/600	SY112T-ND	4.63	41.63	1665.00/600	KR-1700AU
A	1.2	1,400	0.65 x 1.91 (16.5 x 48.5)	1.09 (31)	140	2100	1	SY111-ND†	3.85	34.65	1386.00/600	SY111T-ND	4.15	37.35	1494.00/600	KR-1400AE
4/5SC	1.2	1,200	0.87 x 1.30 (22.0 x 33.0)	1.52 (43)	125	375	4 – 6	SY118-ND†	4.05	36.45	1215.00/500	SY118T-ND	4.35	39.15	1305.00/500	N-1250SCRL
SC	1.2	1,200	0.87 x 1.65 (22.0 x 42.0)	1.62 (46)	120	—	—	SY126-ND	4.23	38.03	1014.00/400	SY126T-ND	4.53	40.73	1086.00/400	KR-SCH(1.2)
SC	1.2	1,300	0.87 x 1.65 (22.0 x 42.0)	1.83 (52)	130	390	4 – 6	SY120-ND†	4.00	36.00	960.00/400	SY120T-ND	4.30	38.70	1032.00/400	N-1300SCR
SC	1.2	1,300	0.87 x 1.65 (22.0 x 42.0)	1.59 (45)	130	260	7 – 8	SY151-ND†	3.20	28.80	680.96/400	SY151T-ND	3.50	31.50	744.80/400	KR-1300SC
SC	1.2	1,700	0.87 x 1.30 (22.0 x 33.0)	1.62 (46)	170	2550	1	SY119-ND†	5.70	51.30	1710.00/500	SY119T-ND	6.00	54.00	1800.00/500	CP-1700SCR
SC	1.2	1,700	0.87 x 1.65 (22.0 x 42.0)	1.90 (54)	170	2600	1	SY121-ND†	4.50	40.50	1080.00/400	SY121T-ND	4.80	43.20	1152.00/400	N-1700SCR
SC	1.2	1,900	0.87 x 1.65 (22.0 x 42.0)	1.98 (54)	190	2900	1	SY122-ND†	4.73	42.53	1134.00/400	SY122T-ND	5.03	45.23	1206.00/400	N-1900SCR
5/4SC	1.2	2,300	0.87 x 1.93 (22.0 x 49.0)	2.05 (58)	230	3500	1	SY113-ND†	9.23	83.03	1660.50/300	SY113T-ND	9.53	85.73	1714.50/300	KR-2300SC
C	1.2	2,500	0.99 x 1.93 (25.2 x 49.0)	2.61 (74)	250	—	—	SY128-ND	12.08	108.68	2173.50/300	SY128T-ND	12.38	111.38	2227.50/300	KR-CH(2.5)
C	1.2	3,000	0.99 x 1.93 (25.2 x 49.0)	2.96 (84)	300	4500	1	SY123-ND†	7.43	66.83	1336.50/300	SY123T-ND	7.73	69.53	1390.50/300	N-3000CR
C	1.2	3,600	0.99 x 1.93 (25.2 x 49.0)	3.14 (89)	360	5400	1	SY124-ND†	9.33	83.93	1678.50/300	SY124T-ND	9.63	86.63	1732.50/300	CP-3600CR
D	1.2	4,000	1.27 x 2.30 (32.3 x 58.4)	5.64 (160)	400	6000	1	SY125-ND	13.00	117.00	1365.00/150	SY125T-ND	13.30	119.70	1396.50/150	N-4000DRL
D	1.2	4,000	1.27 x 2.30 (32.3 x 58.4)	5.11 (145)	400	—	—	SY130-ND	10.80	97.20	1134.00/150	SY130T-ND	11.10	99.90	1165.50/150	KR-DHL
D	1.2	4,400	1.27 x 2.36 (32.3 x 60.2)	5.11 (145)	440	—	—	SY108-ND	10.40	93.60	1092.00/150	SY108T-ND	10.70	96.30	1123.50/150	KR-4400D
F	1.2	7,000	1.27 x 3.54 (32.3 x 90.0)	8.11 (230)	700	—	—	SY131-ND	21.45	193.05	750.75/50	SY131T-ND	21.75	195.75	761.25/50	KR-7000F

† Non-extending positive terminals ▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Lithium Batteries



Lithium batteries use lithium metal or a lithium aluminum alloy in its negative electrode (anode) and manganese dioxide in its positive electrode (cathode). **Features: CR Series:** • High operating voltage of 3V and high energy density • Wide operating temperature range of -40°C – 85°C, depending on type • Low self-discharge rate of 0.5% per year at room temperature • High capacity cylindrical type • SO9002 certified **ML Series:** • High operating voltage of 2.5V • Wide operating temperature range of -20°C – 60°C • Low self-discharge rate of 2% per year at room temperature • Superior charge and discharge cycle • Able to charge at 2.8V **Applications:** • Cameras • Electronic meters (water, gas, electricity) • Electronic car keys **Memory Backup Power:** • RTC and SRAM for cellular phones • SRAM and DRAM for computers • SRAM and DRAM for facsimile machines • SRAM and DRAM for communications equipment and office equipment **Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.**

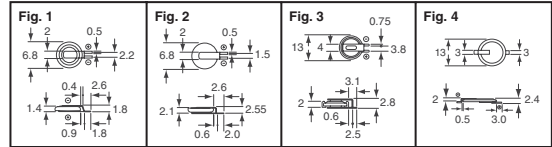


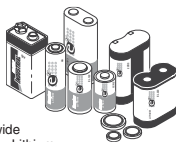
Fig.	Type	(V)	Capacity (mAh)	Dimensions Inch (mm) Diameter x Height	Weight▲ oz. (gram)	Standard Discharge Current (mA)	Digi-Key Part No.	Pricing 10	Carton	Sanyo Part No.	
Coin											
—	Coin	3	25	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY033-ND	.60	5.40	1224.00/4,000	CR1220
		3	80	0.79 x 0.06 (20.0 x 1.6)	0.06 (1.7)	0.3	SY138-ND	.35	3.15	714.00/4,000	CR2016
		3	150	0.79 x 0.10 (20.0 x 2.5)	0.09 (2.5)	0.3	SY188-ND	.35	3.15	714.00/4,000	CR2025
		3	220	0.79 x 0.13 (20.0 x 3.2)	0.11 (3.0)	0.3	SY189-ND	.33	2.93	331.50/2,000	CR2032
		3	280	0.96 x 0.12 (24.5 x 3.0)	0.14 (4.0)	0.3	SY603-ND	1.13	10.13	1147.50/2,000	CR2430
3	610	0.96 x 0.20 (24.5 x 5.0)	0.24 (6.9)	0.2	SY340-ND	1.13	10.13	1147.50/2,000	CR2450		
Coin – Rechargeable											
1	Coin	3	3.4	0.27 x 0.06 (6.8 x 1.4)	0.006 (0.16)	0.015	SY152-ND NEW!	2.13	19.13	4335.00/4,000	ML614-TZ21
2		3	5.5	0.27 x 0.08 (6.8 x 2.1)	0.008 (0.22)	0.015	SY103-ND	2.13	19.13	4335.00/4,000	ML621-TZ1
3		3	15	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY104-ND	3.60	32.40	1512.00/700	ML1220-TJ1
4		3	15	0.49 x 0.08 (12.5 x 2.0)	0.03 (0.8)	0.1	SY105-ND	3.60	32.40	1512.00/700	ML1220-TT2
Camera											
—	Cylindrical	3	160	0.46 x 0.41 (11.6 x 10.8)	0.17 (3.3)	2	SY100-ND	2.93	26.33	2983.50/2,000	CR-1-3N
		3	850	0.61 x 1.06 (15.6 x 27.0)	0.39 (11)	10	SY155-ND	3.70	33.30	1968.40/1,000	CR2
	Cylindrical Pack	3	1,400	0.67 x 1.36 (17.0 x 34.5)	0.60 (17)	10	SY154-ND	3.45	31.05	1242.00/600	CR123A
		3	3,300	1.14 x 0.57 x 2.05 (29.0 x 14.5 x 52.0)	1.34 (38)	20	SY212-ND	11.85	106.65	1696.00/200	CR-V3
	Cylindrical Pack	6	160	0.51 x 0.99 (13.0 x 25.2)	0.32 (9.1)	2	SY101-ND	8.60	77.40	4575.20/1,000	2CR-1-3N
		6	1,400	1.37 x 0.77 x 1.41 (34.8 x 19.5 x 35.8)	1.31 (37)	10	SY205-ND	8.63	77.63	1380.00/200	CR-P2
	6	1,400	1.34 x 0.67 x 1.77 (34.0 x 17.0 x 45.0)	1.41 (40)	10	SY073-ND	8.70	78.30	1392.00/200	2CR5	

▲ See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Energizer



Lithium Batteries



Features: • Lithium batteries substantially outlast alkaline batteries and supply energy at a constant voltage over a wide range of discharge conditions • Lithium batteries have an estimated shelf life of up to 10 years • The L91 AA is the world's longest lasting AA battery in high-drain applications, based on industry standard testing • 9V type for telemetry and other applications • Energizer E2® Photo Lithium batteries provide the ideal power source for today's photographic devices, with advanced lithium technology for exceptional power in digital devices • Coin types for keyless entry and other electronic applications **Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.**

Type	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions (mm) Diameter / Height	Weight (g)	Digi-Key Part No.	Pricing Pkg.	Carton	Energizer Part No.
AAA	1.5	1,200	0.8	30kΩ	10.5 / 44.5	7.6	N600-ND	3.70	33.30/10	4519.45/2,296
AA	1.5	3,000	0.8	50mA	14.5 / 50.5	14.5	N602-ND	3.70	33.30/10	2440.82/1,240
Camera	3	1,500	2.0	100Ω	17 / 34.5	16.8	N151-ND	3.30	29.70/10	2106.72/1,200
Camera	3	800	2.0	100Ω	15.6 / 27	11.0	N157-ND	4.50	48.60/12	86.40/24
Camera Pack	6	1,500	3.5	200Ω	34 x 17 x 45	39.5	N073-ND	12.30	66.42/6	236.16/24
Camera Pack	6	1,400	4.0	200Ω	35 x 19.5 x 36	37.0	N205-ND	12.30	66.42/6	236.16/24
Camera Pack (x2)	3	2,900	2.0	200mA	28.2 x 14 x 51.6	32	N212-ND†	23.08	124.61/6	443.04/24
Coin, 10MM	3	30	2.0	45kΩ	10 / 2.5	0.7	N031-ND	1.05	11.34/12	60.48/72
Coin, 12.5MM	3	29	2.0	45kΩ	12.5 / 1.6	0.7	N032-ND	1.08	11.61/12	61.92/72
Coin, 12.5MM	3	40	2.0	45kΩ	12.5 / 2	0.76	N033-ND	.90	8.10/10	718.20/1,500
Coin, 16MM	3	55	2.0	30kΩ	16 / 1.6	1.2	N034-ND	1.00	9.00/10	532.00/1,000
Coin, 16MM	3	79	2.0	30kΩ	16 / 2	1.4	N035-ND	.93	8.33/10	1887.00/4,000
Coin, 16MM	3	130	2.0	15kΩ	16 / 3.2	1.8	N036-ND	1.13	10.13/10	1197.00/2,000
Coin, 20MM	3	58	2.0	30kΩ	20 / 1.2	1.3	N037-ND	1.10	9.90/10	2244.00/4,000
Coin, 20MM	3	80	2.0	30kΩ	20 / 1.6	1.9	N138-ND	.35	3.15/10	186.20/1,000
Coin, 20MM	3	170	2.0	15kΩ	20 / 2.5	2.8	N188-ND	.40	3.60/10	212.80/1,000
Coin, 20MM	3	225	2.0	10kΩ	20 / 3.2	3.3	N189-ND	.35	3.15/10	186.20/1,000
Coin, 24.5MM	3	290	2.0	10kΩ	24.5 / 3	4.6	N603-ND	1.35	12.15/10	718.20/1,000