

Nickel-Cadmium Batteries

- Wide Variety of Cells
 ▶ Standard "N"
 ▶ Rapid Charge "R"
 ▶ High Temperature "H" Memory Backup
 ▶ High Capacity "E"

- Features
 ▶ Rechargeable Sealed Nickel-Cadmium Alkaline Cell
 ▶ Long Shelf Life
 ▶ High-Rate Charging
 ▶ Reliable, Self-Resealing Vent

- Applications
 ▶ For Cyclic Use
 ▶ For Trickle or Float Charge Use

The most notable characteristic of these batteries is their ability to be repeatedly used for extremely long periods of time (very often more than five years). The perfect portable power source for this age of energy conservation, Ni-Cd batteries retain most of their initial performance throughout their service life and are used in an increasing number of ways and fields, including factory, office and home automation systems, information network

systems, and others. To satisfy these battery requirements, Panasonic places first priority on high product quality to assure high product reliability. Attention to detail is demanded in this severe quality control system that extends from raw and basic materials procurement to parts and even packaging.

Standard "N" Type

| Stock No. | Mfr.'s Type | Nominal Voltage (V) | Nominal Capacity C/5 (mAh) | Standard Charge | | Quick Charge | | Dimensions (with tube) | | Approximate Weight oz. (g) | Size | EACH | | | |
|-----------|-------------|---------------------|----------------------------|-----------------|----------|--------------|----------|------------------------|------------------------|----------------------------|-------|-------|-------|-------|-------|
| | | | | Current (mA) | Time (h) | Current (mA) | Time (h) | Diameter inch (mm) | Height inch (mm) | | | 1-9 | 10-24 | 25-49 | 50-99 |
| 884-0855 | P-11AA/FT | 1.2 | 110 | 11 | 15 | 27.5 | 6.0 | 0.55 ±0.02 (14.0 ±0.5) | 0.65 ±0.02 (16.5 ±0.5) | 0.23 (6.5) | 1/3AA | 2.40 | 1.81 | 1.57 | 1.41 |
| 884-0857 | P-18V/FT | 1.2 | 180 | 18 | 15 | 45.0 | 6.0 | 0.47 ±0.03 (12.0 ±0.7) | 1.18 ±0.04 (30.0 ±1.0) | 0.28 (8.0) | N | 2.56 | 2.31 | 2.10 | 1.92 |
| 884-0795 | P-22AAA | 1.2 | 220 | 22 | 15 | 73.0 | 4.5 | 0.41 ±0.03 (10.5 ±0.7) | 1.75 ±0.04 (44.5 ±1.0) | 0.35 (10.0) | AAA | 2.87 | 2.44 | 2.28 | 2.14 |
| 884-0797 | P-25AAA | 1.2 | 220 | 25 | 15 | 83.0 | 4.5 | 0.41 ±0.03 (10.5 ±0.7) | 1.75 ±0.04 (44.5 ±1.0) | 0.35 (10.0) | AAA | 2.81 | 2.53 | 2.30 | 2.11 |
| 884-0905 | P-60AA | 1.2 | 600 | 60 | 15 | 180.0 | 5.0 | 0.55 ±0.02 (14.0 ±0.5) | 1.95 ±0.02 (49.5 ±0.5) | 0.78 (22.0) | AA | 1.95 | 1.63 | 1.43 | 1.35 |
| 884-0946 | P-70AA | 1.2 | 700 | 70 | 15 | 233.0 | 4.5 | 0.57 ±0.03 (14.5 ±0.7) | 1.97 ±0.04 (50.0 ±1.0) | 0.78 (22.0) | AAA | 2.23 | 2.04 | 1.88 | 1.80 |
| 884-0915 | P-240C | 1.2 | 2400 | 240 | 15 | 1500.0 | 2.4 | 1.00 ±0.02 (25.3 ±0.5) | 1.92 ±0.03 (48.8 ±0.7) | 2.55 (73.0) | C | 8.40 | 7.74 | 7.16 | 6.71 |
| 884-0844 | P-440D | 1.2 | 4400 | 440 | 15 | 800.0 | 4.5 | 1.30 ±0.04 (33.0 ±1.0) | 2.40 ±0.06 (61.0 ±1.5) | 0.49 (13.9) | D | 11.08 | 8.78 | 7.89 | 7.24 |

Rapid Charge "R" Type

| Stock No. | Mfr.'s Type | Nominal Voltage (V) | Nominal Capacity C/5 (mAh) | Rapid Charge | | Dimensions (with tube) | | Approximate Weight oz. (g) | Size | EACH | | | |
|-----------|-------------|---------------------|----------------------------|--------------|----------|------------------------|-------------------------|----------------------------|-------|-------|-------|-------|-------|
| | | | | Current (mA) | Time (h) | Diameter inch (mm) | Height inch (mm) | | | 1-9 | 10-24 | 25-49 | 50-99 |
| 884-0921 | P-25AAR/FT | 1.2 | 220 | 250 | 1.5 | 0.41 ±0.03 (10.5 ±0.7) | 1.750 ±0.04 (44.5 ±1.0) | 0.35 (10) | AAA | 2.72 | 2.45 | 2.23 | 2.04 |
| 884-0924 | P-30AAR/FT | 1.2 | 300 | 300 | 1.5 | 0.57 ±0.03 (14.5 ±0.7) | 1.110 ±0.04 (28.2 ±1.0) | 0.42 (12) | 2/3AA | 2.32 | 2.06 | 1.75 | 1.63 |
| 884-0935 | P-60AAR/FT | 1.2 | 600 | 600 | 1.5 | 0.55 ±0.02 (14.0 ±0.5) | 1.880 ±0.02 (47.8 ±0.5) | 0.78 (22) | AA | 1.58 | 1.33 | 1.24 | 1.17 |
| 884-0944 | P-70AARC/FT | 1.2 | 700 | 700 | 1.5 | 0.55 ±0.02 (14.0 ±0.5) | 1.950 ±0.02 (49.5 ±0.5) | 0.78 (22) | AA | 2.35 | 2.13 | 1.96 | 1.89 |
| 884-1090 | P-130SCC | 1.2 | 1300 | 1300 | 1.5 | 0.89 ±0.02 (22.5 ±0.5) | 1.634 ±0.02 (41.5 ±0.5) | 1.66 (47) | SC | 3.71 | 3.08 | 2.77 | 2.65 |
| 884-1070 | P-130SCR | 1.2 | 1300 | 1300 | 1.5 | 0.89 ±0.02 (22.5 ±0.5) | 1.670 ±0.02 (42.5 ±0.5) | 1.66 (47) | SC | 3.60 | 3.04 | 2.76 | 2.63 |
| 884-1095 | P-140SCC | 1.2 | 1400 | 1400 | 1.5 | 0.91 ±0.04 (23.0 ±1.0) | 1.650 ±0.06 (42.0 ±1.5) | 1.69 (48) | SC | 3.83 | 3.45 | 3.13 | 2.87 |
| 884-1050 | P-180SCR | 1.2 | 1800 | 1800 | 1.5 | 0.89 ±0.02 (22.5 ±0.5) | 1.670 ±0.02 (42.5 ±0.5) | 1.73 (49) | SC | 7.90 | 7.01 | 6.38 | 6.09 |
| 884-1055 | P-280CR | 1.2 | 2800 | 2800 | 1.5 | 1.00 ±0.02 (25.3 ±0.5) | 1.920 ±0.02 (48.8 ±0.5) | 2.77 (79) | C | 9.35 | 8.44 | 7.70 | 7.33 |
| 884-1057 | P-500DR | 1.2 | 5000 | 5000 | 1.5 | 1.30 ±0.04 (33.0 ±1.0) | 2.400 ±0.06 (61.0 ±1.5) | 5.10 (145) | D | 15.16 | 13.65 | 12.41 | 11.37 |

High Capacity and Ultra High Charge "P" Type

| Stock No. | Mfr.'s Type | Nominal Voltage (V) | Nominal Capacity (mAh) | Rapid Charge | | Dimensions (with tube) | | Approximate Weight oz. (g) | Size | EACH | | | |
|-----------|-------------|---------------------|------------------------|--------------|----------|------------------------|------------------------|----------------------------|------|------|-------|-------|-------|
| | | | | Current (mA) | Time (h) | Diameter inch (mm) | Height inch (mm) | | | 1-9 | 10-24 | 25-49 | 50-99 |
| 884-0945 | P-70AAR | 1.2 | 700 | 700 | 1.5 | 0.55 ±0.02 (14.0 ±0.5) | 1.95 ±0.02 (49.5 ±0.5) | 0.078 (22) | AA | 1.89 | 1.71 | 1.58 | 1.49 |

Trickle Charge "H" and "K" Type

| Stock No. | Mfr.'s Type | Nominal Voltage (V) | Nominal Capacity C/5 (mAh) | Standard Charge | | Dimensions (with tube) | | Approximate Weight oz. (g) | Size | EACH | | | |
|-----------|-------------|---------------------|----------------------------|-----------------|----------|------------------------|------------------------|----------------------------|-------|-------|-------|-------|-------|
| | | | | Current (mA) | Time (h) | Diameter inch (mm) | Height inch (mm) | | | 1-9 | 10-24 | 25-49 | 50-99 |
| 884-0809 | P-11AAH/FT | 1.2 | 110 | 3.7 | 48 | 0.55 ±0.02 (14.0 ±0.5) | 0.66 ±0.02 (16.8 ±0.5) | 0.23 (6.5) | 1/3AA | 3.18 | 2.47 | 2.14 | 1.95 |
| 884-0840 | P-50AAH/FT | 1.2 | 500 | 50.0 | 15 | 0.57 ±0.03 (14.5 ±0.7) | 1.90 ±0.04 (48.3 ±1.0) | 0.74 (21.0) | AA | 3.06 | 2.23 | 1.89 | 1.73 |
| 884-0970 | P-120SCH | 1.2 | 1200 | 40.0 | 48 | 0.89 ±0.02 (22.5 ±0.5) | 1.67 ±0.02 (42.5 ±0.5) | 1.80 (51.0) | SC | 4.80 | 4.33 | 4.00 | 3.77 |
| 884-0975 | P-230CH | 1.2 | 2300 | 230.0 | 15 | 1.02 ±0.04 (25.8 ±1.0) | 1.97 ±0.06 (50.0 ±1.5) | 2.75 (78.0) | C | 7.04 | 6.35 | 5.88 | 5.52 |
| 884-0977 | P-400DH | 1.2 | 4000 | 400.0 | 15 | 1.30 ±0.04 (33.0 ±1.0) | 2.40 ±0.06 (61.0 ±1.5) | 4.90 (139.0) | D | 12.60 | 11.34 | 10.31 | 9.45 |

High Capacity "S" Type

| Stock No. | Mfr.'s Type | Nominal Voltage (V) | Nominal Capacity C/5 (mAh) | Rapid Charge | | Dimensions (with tube) | | Approximate Weight oz. (g) | Size | EACH | | | |
|-----------|--------------|---------------------|----------------------------|--------------|----------|------------------------|------------------------|----------------------------|-------|------|-------|-------|-------|
| | | | | Current (mA) | Time (h) | Diameter inch (mm) | Height inch (mm) | | | 1-9 | 10-24 | 25-49 | 50-99 |
| 884-1001 | P-100AASJ/FT | 1.2 | 1000 | 1000 | 1.5 | 0.57 ±0.03 (14.5 ±0.7) | 1.97 ±0.04 (50.0 ±1.0) | 0.81 (23) | AA | 5.80 | 4.80 | 4.14 | 3.44 |
| 884-0985 | P-120AS* | 1.2 | 1200 | 1200 | 1.5 | 0.65 ±0.02 (16.5 ±0.5) | 1.67 ±0.02 (42.5 ±0.5) | 0.92 (26) | 4/5Af | 7.76 | 7.00 | 6.48 | 6.07 |
| 884-0991 | P-120AAS/FT* | 1.2 | 1200 | 1200 | 1.5 | 0.55 ±0.02 (14.0 ±0.5) | 2.54 ±0.02 (64.5 ±0.5) | 1.09 (31) | 5/4AA | 3.96 | 3.74 | 3.37 | 3.26 |
| 884-0995 | P-140AS* | 1.2 | 1400 | 1400 | 1.5 | 0.65 ±0.02 (16.5 ±0.5) | 1.95 ±0.02 (49.3 ±0.5) | 1.16 (32) | Af | 7.10 | 6.40 | 5.93 | 5.57 |
| 884-0997 | P-150AS* | 1.2 | 1500 | 1500 | 1.5 | 0.67 ±0.03 (17.0 ±0.7) | 1.69 ±0.06 (43.0 ±1.5) | 0.95 (27) | 4/5A | 4.67 | 4.20 | 3.82 | 3.50 |
| 884-1005 | P-230SCS* | 1.2 | 2300 | 2000 | 1.6 | 0.88 ±0.02 (22.5 ±0.5) | 1.94 ±0.02 (49.2 ±0.5) | 2.24 (57) | 5/4SC | 8.52 | 7.85 | 7.26 | 6.81 |
| 884-1010 | P-60AS† | 1.2 | 600 | 600 | 1.5 | 0.65 ±0.02 (16.5 ±0.5) | 1.10 ±0.02 (28.0 ±0.5) | 0.63 (18) | 2/3Af | 2.91 | 2.51 | 2.32 | 2.17 |
| 884-1017 | P-80AAS/FT† | 1.2 | 800 | 800 | 1.5 | 0.55 ±0.02 (14.0 ±0.5) | 1.88 ±0.02 (47.8 ±0.5) | 0.74 (21) | AA | 2.48 | 2.34 | 2.11 | 2.04 |
| 884-1020 | P-110AS† | 1.2 | 1100 | 1100 | 1.5 | 0.65 ±0.02 (16.5 ±0.5) | 1.67 ±0.02 (42.5 ±0.5) | 0.88 (25) | 4/5Af | 3.34 | 3.01 | 2.79 | 2.62 |
| 884-1026 | P-110AAS/FT† | 1.2 | 1100 | 1100 | 1.5 | 0.55 ±0.02 (14.0 ±0.5) | 2.54 ±0.02 (64.5 ±0.5) | 1.02 (29) | 5/4AA | 4.46 | 3.57 | 3.43 | 2.98 |

*SM60. †SM40.

High Rate Discharge and Rapid Charge "P" Type

| Stock No. | Mfr.'s Type | Nominal Voltage (V) | Nominal Capacity C/5 (mAh) | Rapid Charge | | Dimensions | | Approximate Weight oz. (g) | Size | EACH | | | |
|-----------|-------------|---------------------|----------------------------|--------------|----------|------------------------|-------------------------|----------------------------|-------|------|-------|-------|-------|
| | | | | Current (mA) | Time (h) | Diameter inch (mm) | Height inch (mm) | | | 1-9 | 10-24 | 25-49 | 50-99 |
| 884-1065 | P-120SCPJ | 1.2 | 1200 | 1200 | * | 0.91 ±0.04 (23.0 ±1.0) | 1.340 ±0.06 (34.0 ±1.5) | 1.38 (39) | 4/5SC | 4.06 | 3.65 | 3.32 | 3.04 |
| 884-1067 | P-120SCPM | 1.2 | 1200 | 1200 | * | 0.91 ±0.04 (23.0 ±1.0) | 1.690 ±0.06 (43.0 ±1.5) | 1.66 (47) | SC | 4.06 | 3.65 | 3.32 | 3.04 |
| 884-1080 | P-170SCRP | 1.2 | 1650 | 1700 | 1.5 | 0.89 ±0.02 (22.5 ±0.5) | 1.670 ±0.02 (42.5 ±0.5) | 1.73 (49) | SC | 4.59 | 4.06 | 3.70 | 3.53 |
| 884-1087 | P-200SCP | 1.2 | 2000 | 2000 | * | 0.91 ±0.04 (23.0 ±1.0) | 1.690 ±0.06 (43.0 ±1.5) | 1.83 (52) | SC | 7.66 | 6.90 | 6.27 | 5.75 |

*Time depends on charge method used.