

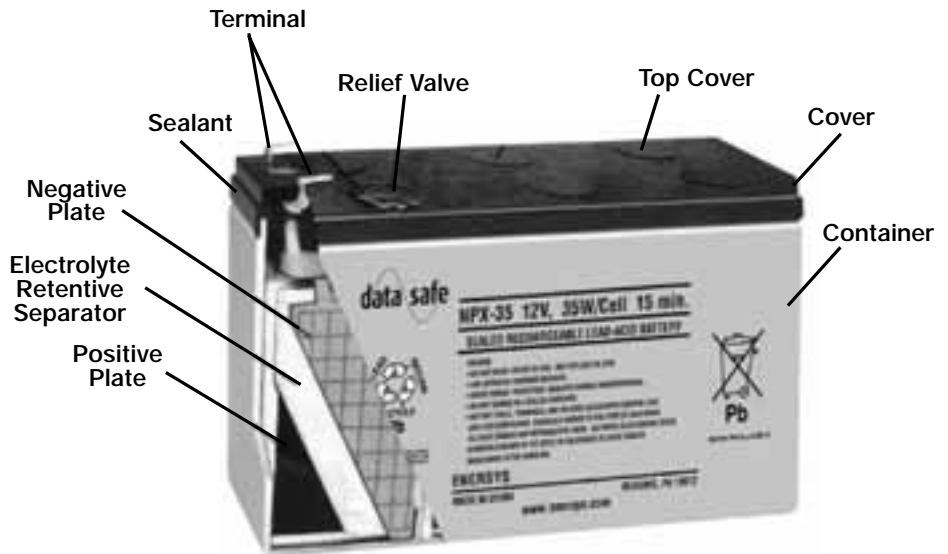


DataSafe® NPX valve regulated lead-acid batteries are designed for high rate discharge applications. These batteries are used primarily where high wattage is required for a short duration. With 50% more wattage available and a 30% reduction in size over conventional batteries, DataSafe NPX batteries offer a superior value, especially in UPS applications.

Features and Benefits

- UL recognized
- Sealed construction - can be operated in any position without leakage
- Complies with non-spillable battery regulation, per IATA special provision A67 and 49CFR
- Life expectancy at 25°C (77°F):
 - Standby use: 3-5 years
 - Cycle use (approx.):
 - 100% depth of discharge 250 cycles
 - 50% depth of discharge 550 cycles
 - 30% depth of discharge 1200 cycles
- Charge retention (shelf life) at 68°F (20°C)
 - 1 month 97%
 - 3 months 91%
 - 6 months 85%
- Operating temperature range:
 - Charge 5°F to 122°F (-15°C to 50°C)
 - Discharge -4°F to 140°F (-20°C to 60°C)
- Standard housing material:
 - ABS resin with optional V-0 Flame Retardant ABS

DataSafe® NPX Battery Construction



DATASAFE® NPX BATTERIES – 6 AND 12 VOLT

| | NPX-35-6 | NPX-50-6 | NPX-25 | NPX-35 | NPX-80 | NPX-100 | NPX-135 | NPX-150 |
|--|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Energy Density (10hr rate) | | | | | | | | |
| WH/cubic inch | 1.70 | 1.58 | 1.36 | 1.50 | 1.54 | 1.36 | 1.36 | 1.27 |
| WH/cubic liter | 104.1 | 96.7 | 28.7 | 91.5 | 94.0 | 83.2 | 83.1 | 77.6 |
| Specific Energy | | | | | | | | |
| WH/pound | 17.11 | 14.8 | 13.0 | 14.3 | 15.4 | 14.1 | 14.0 | 13.7 |
| WH/kg | 37.8 | 32.7 | 28.7 | 31.4 | 34.0 | 31.2 | 30.8 | 30.2 |
| Maximum Discharge Current with Standard Terminals - amperes | | | | | | | | |
| | 40 | 40 | 40 | 40 | 150 | 360 | 360 | 360 |
| Maximum Short-Duration Discharge Current - amperes | | | | | | | | |
| | 210 | 300 | 150 | 210 | 450 | 780 | 840 | 1200 |
| Charging Methods | | | | | | | | |
| Cycle Use - Maximum charging current | 2.0A | 3.0A | 1.25A | 2.215A | 5.0A | 6.5A | 7.5A | 10.0A |
| Cycle Use - Charging voltage | 7.2-7.5V | 7.2-7.5V | 14.4-15.0V | 14.4-15.0V | 14.4-15.0V | 14.4-15.0V | 14.4-15.0V | 14.4-15.0V |
| Standby Use - Float charging voltage | 6.75-6.90V | 6.75-6.90V | 13.50-13.80V | 13.50-13.80V | 13.50-13.80V | 13.50-13.80V | 13.50-13.80V | 13.50-13.80V |

GENERAL SPECIFICATIONS

| Type | FR Type* | Volts | W/Cell to 1.67 End Voltage (15 Min. Rate) | Nominal Ah 20hr to 1.75VPC | Length | | Width | | Terminals | | Weight | | Internal Resistance (m Ω) | Layout | Terminals |
|----------|------------|-------|---|----------------------------|--------|-------|-------|-------|------------------|-------|--------|--------|-----------------------------------|--------|-----------|
| | | | | | mm. | (in.) | mm. | (in.) | mm. | (in.) | kgs. | (lbs.) | | | |
| NPX-35-6 | NPX-35-6FR | 6 | 35 | 8 | 151 | 5.95 | 33 | 1.30 | 100 | 3.94 | 1.43 | 3.15 | 12 | 1 | A/B |
| NPX-50-6 | NPX-50-6FR | | 53 | 13 | 151 | 5.95 | 50 | 1.97 | 100 | 3.94 | 2.09 | 4.60 | 6 | 1 | A/B |
| NPX-25 | NPX-25FR | 12 | 23 | 5 | 90 | 3.54 | 70 | 2.75 | 107 | 4.21 | 1.95 | 4.30 | 16.5 | 1 | A/B |
| NPX-35 | NPX-35FR | | 35 | 8 | 151 | 5.95 | 65 | 2.56 | 100 | 3.94 | 2.75 | 6.06 | 15 | 3 | A/B |
| NPX-80 | NPX-80FR | | 80 | 20 | 181 | 7.13 | 76 | 2.39 | 167 | 6.57 | 6.35 | 14.00 | 8.5 | 2 | C/E |
| NPX-100 | NPX-100FR | | 95 | 28 | 166 | 6.54 | 125 | 4.92 | 175 | 6.89 | 9.70 | 21.38 | 7.5 | 2 | C/E |
| NPX-135 | NPX-135FR | | 135 | 33 | 197 | 7.76 | 131 | 5.16 | 158 [†] | 6.22 | 11.94 | 26.32 | 6.5 | 1 | D/F |
| NPX-150 | NPX-150FR | | 150 | 40 | 197 | 7.76 | 165 | 6.50 | 172 | 6.77 | 14.29 | 31.50 | 5 | 2 | D/F |

FOOTNOTES:

All dimensions given are +/- 0.08 inches (2mm). All weights given are +/- 5%.

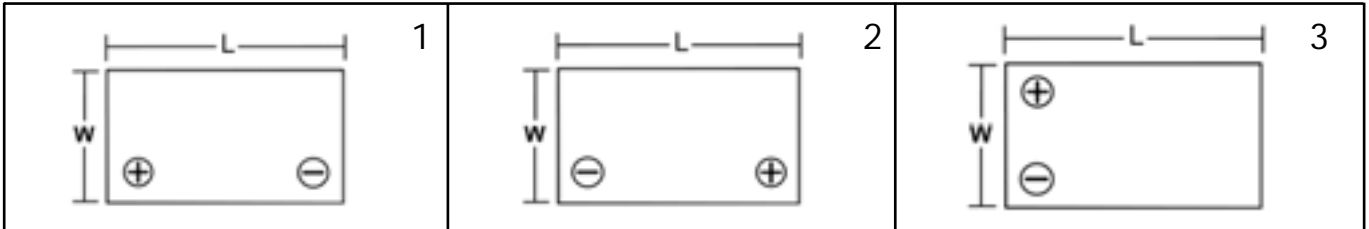
* FR: UL90-V-0, Flame Retardant Case and Cover (Oxygen Index: 28)
Recognized by UL File No. MH16464

[†]Height is top cover. Overall Height, including terminal is dependent on the terminal configuration.

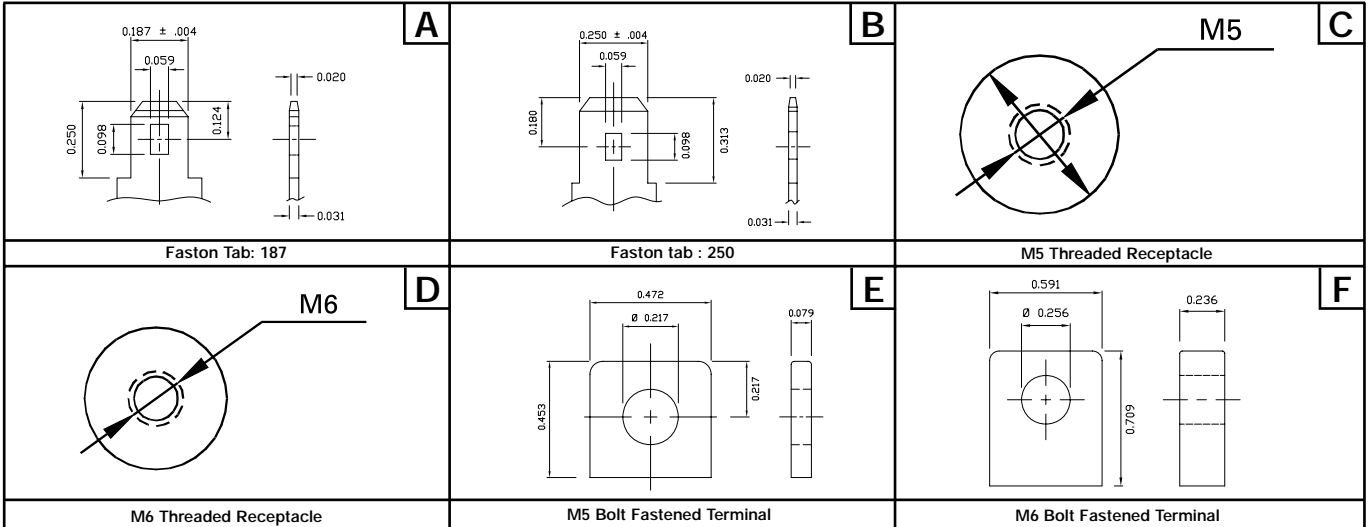
Torque Specifications

M5 bolt - 26.6 lbf.in (3Nm) +/- 5%
M6 bolt - 44.31 lbf.in (5Nm) +/- 5%
M5 receptacle - 35.4 lbf.in (4Nm) +/- 5%
M6 receptacle - 65 lbf. in (6.8Nm) +/- 5%

LAYOUT ILLUSTRATION



TERMINAL ILLUSTRATION



6 VOLT SERIES

| Type | Volts/Cell | MINUTES | | | | | | | | HOURS |
|----------|------------|---------|------|------|------|------|------|------|------|-------|
| | | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 1 | |
| NPX-35-6 | 1.75 | 66.0 | 42.0 | 33.0 | 26.0 | 20.0 | 16.2 | 13.2 | 11.2 | |
| | 1.70 | 67.0 | 43.0 | 34.0 | 27.0 | 20.8 | 17.0 | 13.7 | 11.5 | |
| | 1.67 | 68.0 | 44.0 | 35.0 | 28.0 | 21.5 | 17.6 | 14.0 | 11.8 | |
| | 1.60 | 70.0 | 46.0 | 36.0 | 29.0 | 22.0 | 18.2 | 14.5 | 12.1 | |
| | 1.50 | 71.0 | 47.0 | 38.0 | 31.0 | 23.0 | 18.8 | 15.0 | 12.4 | |
| NPX-50-6 | 1.75 | 92.0 | 59.0 | 48.0 | 36.0 | 27.0 | 20.5 | 17.5 | 15.2 | |
| | 1.70 | 93.0 | 60.0 | 49.0 | 37.0 | 28.0 | 21.2 | 18.0 | 15.4 | |
| | 1.67 | 94.0 | 60.0 | 50.0 | 38.0 | 29.0 | 21.7 | 18.5 | 15.6 | |
| | 1.60 | 96.0 | 62.0 | 52.5 | 40.0 | 29.5 | 22.5 | 18.8 | 15.8 | |
| | 1.50 | 97.0 | 63.0 | 53.5 | 41.0 | 29.8 | 23.0 | 19.0 | 16.0 | |

12 VOLT SERIES

| | | | | | | | | | |
|---------|------|-------|-------|-------|-------|------|------|------|------|
| NPX-25 | 1.75 | 43.0 | 29.0 | 21.0 | 17.0 | 12.8 | 10.2 | 8.7 | 7.6 |
| | 1.70 | 45.0 | 30.0 | 22.0 | 17.6 | 13.2 | 10.4 | 8.9 | 7.7 |
| | 1.67 | 47.0 | 31.0 | 23.0 | 18.1 | 13.6 | 10.6 | 9.1 | 7.8 |
| | 1.60 | 48.0 | 32.0 | 24.0 | 18.8 | 13.8 | 10.8 | 9.3 | 7.9 |
| | 1.50 | 49.0 | 33.0 | 25.0 | 19.4 | 14.0 | 11.0 | 9.5 | 8.1 |
| NPX-35 | 1.75 | 66.0 | 42.0 | 33.0 | 26.0 | 20.0 | 16.2 | 13.2 | 11.2 |
| | 1.70 | 67.0 | 43.0 | 34.0 | 27.0 | 20.8 | 17.0 | 13.7 | 11.5 |
| | 1.67 | 68.0 | 44.0 | 35.0 | 28.0 | 21.5 | 17.6 | 14.0 | 11.8 |
| | 1.60 | 70.0 | 46.0 | 36.0 | 29.0 | 22.0 | 18.2 | 14.5 | 12.1 |
| | 1.50 | 71.0 | 47.0 | 38.0 | 31.0 | 23.0 | 18.8 | 15.0 | 12.4 |
| NPX-80 | 1.75 | 136.0 | 102.0 | 78.0 | 63.0 | 42.0 | 37.0 | 31.0 | 25.0 |
| | 1.70 | 138.0 | 103.0 | 79.0 | 64.0 | 42.5 | 38.0 | 31.8 | 25.4 |
| | 1.67 | 140.0 | 104.0 | 80.0 | 65.0 | 43.3 | 38.0 | 32.3 | 25.8 |
| | 1.60 | 145.0 | 106.0 | 81.0 | 66.0 | 44.0 | 39.0 | 32.8 | 26.0 |
| | 1.50 | 148.0 | 109.0 | 83.0 | 68.0 | 45.0 | 40.0 | 33.0 | 26.2 |
| NPX-100 | 1.75 | 170.0 | 115.0 | 90.0 | 74.0 | 54.0 | 44.0 | 35.5 | 31.5 |
| | 1.70 | 180.0 | 120.0 | 92.0 | 74.5 | 54.5 | 44.5 | 35.8 | 31.8 |
| | 1.67 | 185.0 | 125.0 | 95.0 | 75.0 | 55.0 | 45.0 | 36.0 | 32.0 |
| | 1.60 | 190.0 | 127.0 | 95.5 | 75.5 | 55.5 | 45.3 | 36.3 | 32.3 |
| | 1.50 | 195.0 | 130.0 | 96.0 | 76.0 | 56.0 | 45.6 | 36.6 | 32.6 |
| NPX-135 | 1.75 | 244.0 | 161.0 | 123.0 | 100.0 | 74.0 | 59.2 | 50.0 | 44.5 |
| | 1.70 | 258.0 | 168.0 | 127.0 | 103.0 | 76.0 | 59.8 | 50.5 | 45.0 |
| | 1.67 | 265.0 | 172.0 | 135.0 | 105.0 | 77.0 | 60.3 | 51.0 | 45.4 |
| | 1.60 | 278.0 | 177.0 | 135.0 | 107.0 | 78.0 | 61.0 | 51.5 | 45.9 |
| | 1.50 | 285.0 | 180.0 | 136.0 | 108.0 | 78.0 | 61.3 | 52.0 | 46.2 |
| NPX-150 | 1.75 | 250.0 | 180.0 | 140.0 | 115.0 | 86.0 | 71.0 | 61.0 | 54.0 |
| | 1.70 | 275.0 | 190.0 | 145.0 | 118.0 | 88.0 | 71.5 | 61.5 | 54.5 |
| | 1.67 | 285.0 | 200.0 | 150.0 | 120.0 | 90.0 | 72.0 | 62.0 | 55.0 |
| | 1.60 | 290.0 | 205.0 | 155.0 | 123.0 | 92.0 | 72.5 | 62.5 | 55.5 |
| | 1.50 | 310.0 | 210.0 | 160.0 | 125.0 | 92.5 | 73.0 | 63.0 | 56.0 |



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