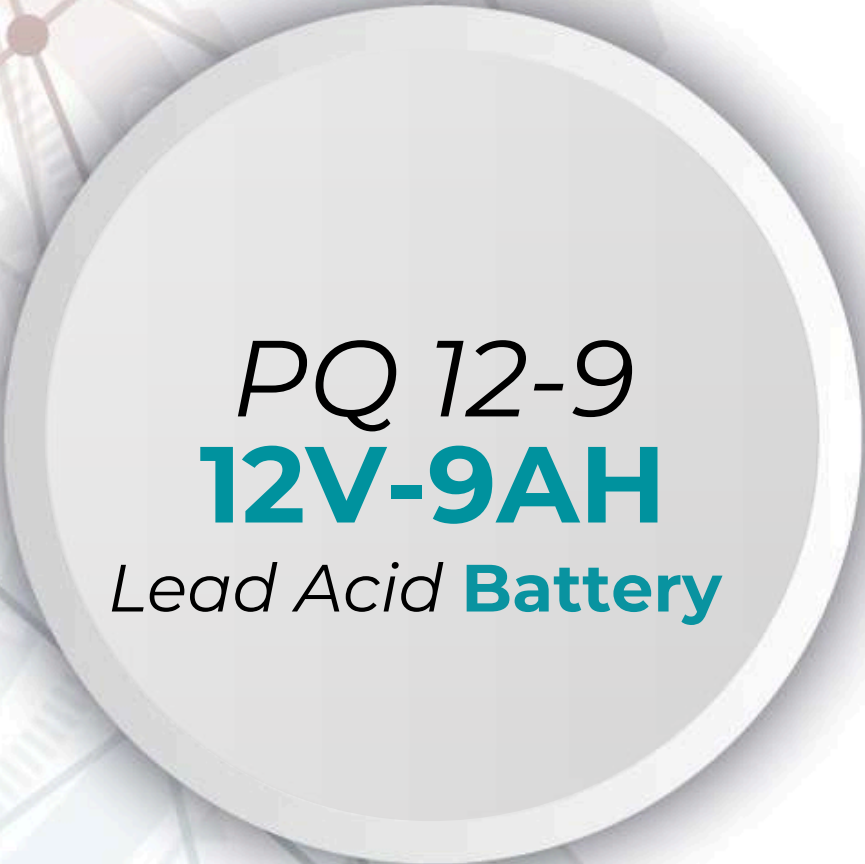




POWERQ
never will be dark



PQ 12-9
12V-9AH
Lead Acid Battery



The PQ 12-9 is a 12V 9Ah sealed lead-acid battery used in UPS, alarms, emergency lights, and portable devices, offering reliable and easy maintenance.

DIMENSIONS

| | |
|----------------------------|---------------------|
| Length (L) | 90 ± (3.54±0.04) |
| Width (W) | 70 ± (2.76±0.04) |
| Height (H) | 101.5 ± (4.00±0.04) |
| Overall Height (HT) | 107 ± (4.21±0.04) |

(Units: mm (inch))

SPECIFICATIONS

Nominal Voltage (V)

12v

Nominal Power

15 mins rate 36W/cell to 1.60V/cell

Nominal Capacity at 25°C (77°F)

| | | |
|-------------|-------------------|---------|
| 5 hour rate | (1.35A to 10.20V) | 7.65 Ah |
| 1C | (9A to 9.60V) | 63.3Ah |
| 3C | (27A to 9.60V) | 5.36Ah |

Weight

Approx. 2.7kg(5.94Lbs.)

Internal Resistance (at 1 KHZ)

Approx. 14 mΩ

Maximum Discharge Current For

5 seconds:135A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage 14.4 to 15.0V

Coefficient -30mV/°C/cell

Maximum Charging Current 30A

Standby use:

Float Charging Voltage 13.5 to 13.8V

Coefficient: -18mV/°C/cell

Maximum Charging Current: 2.24A

Operating Temperature Range

Charge -15°C (5°F) to 40°C (104°F)

Discharge -15°C (5°F) to 50°C (122°F)

Storage -15°C (5°F) to 40°C (104°F)

Charge Retention (shelf life) at 20°C (68°F)

1 month 92%

3 month 90%

6 month 80%

Case Material

ABS UL94 HB

Option Flammability resistance of

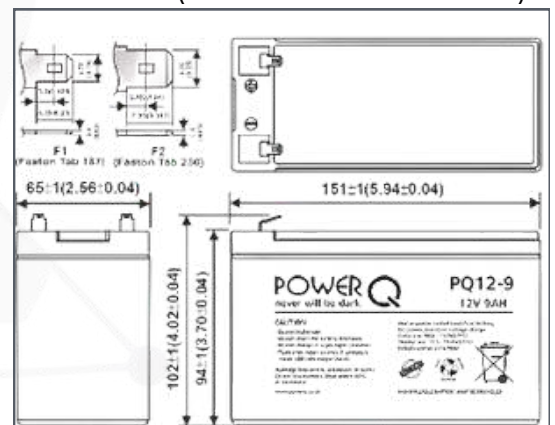
UL94 V-0

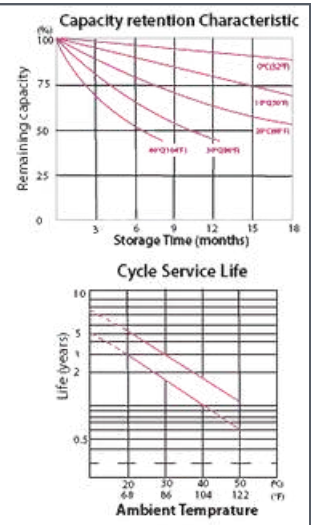
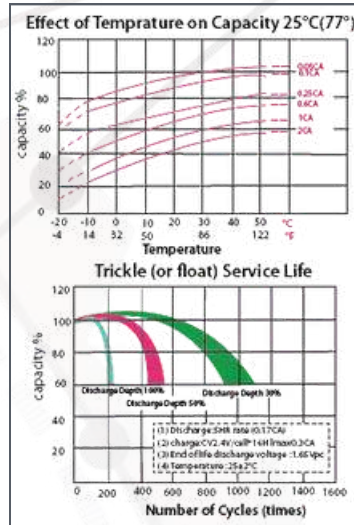
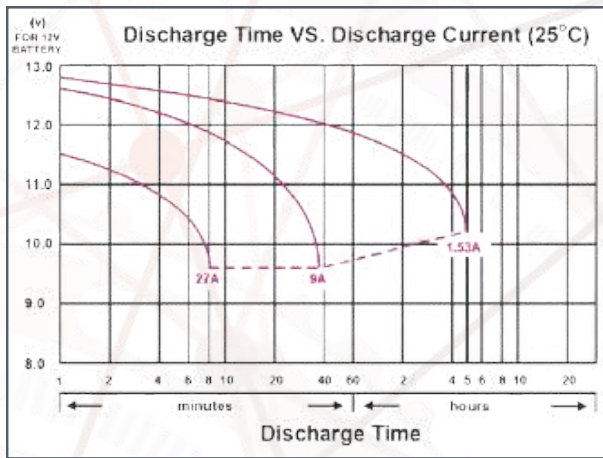
Design Life

3-5 Years

Terminal

F1 or F2 (faston Tab 187 or 250)





PERFORMANCE DATA

Discharge Rates in Watts to Various End Voltages at 25°C (77°F)

| Time (min) | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 57.1 | 60.2 | 64.7 | 67.8 | 69.8 | 71.2 | 74.7 |
| 10 | 36.5 | 39.1 | 42 | 44 | 45.2 | 46.1 | 48.3 |
| 15 | 30.1 | 31.2 | 32.3 | 33.4 | 34 | 34.7 | 35.9 |
| 30 | 15.8 | 16.2 | 17 | 17.7 | 17.8 | 18 | 19.1 |
| 60 | 9.97 | 10.4 | 10.7 | 11 | 11.1 | 11.3 | 11.5 |
| 120 | 5.4 | 5.56 | 5.69 | 5.82 | 5.87 | 5.9 | 5.95 |
| 180 | 4.2 | 4.35 | 4.49 | 4.62 | 4.67 | 4.75 | 4.85 |
| 240 | 3.4 | 3.53 | 3.63 | 3.73 | 3.78 | 3.85 | 3.92 |
| 300 | 2.89 | 2.99 | 3.05 | 3.1 | 3.12 | 3.15 | 3.18 |
| 600 | 1.62 | 1.68 | 1.71 | 1.75 | 1.77 | 1.78 | 1.8 |
| 1200 | 0.853 | 0.882 | 0.902 | 0.907 | 0.91 | 0.913 | 0.918 |

Discharge Rates in Amperes to Various End Voltages at 25°C (77°F)

| Time (min) | 1.85V | 1.80V | 1.75V | 1.70V | 1.67V | 1.65V | 1.60V |
|------------|-------|-------|-------|-------|-------|-------|-------|
| 5 | 30.4 | 32.6 | 35 | 36.7 | 37.4 | 38.5 | 40.3 |
| 10 | 19.1 | 20.4 | 21.9 | 22.9 | 23.4 | 24.1 | 25.2 |
| 15 | 14.3 | 14.9 | 15.8 | 16.5 | 16.8 | 17.3 | 18 |
| 30 | 8.09 | 8.45 | 8.93 | 9.35 | 9.54 | 9.77 | 10.2 |
| 60 | 5.17 | 5.29 | 5.37 | 5.45 | 5.48 | 5.52 | 5.57 |
| 120 | 2.63 | 2.72 | 2.78 | 2.84 | 2.86 | 2.98 | 2.93 |
| 180 | 2.12 | 2.18 | 2.23 | 2.27 | 2.29 | 2.31 | 2.34 |
| 240 | 1.69 | 1.74 | 1.77 | 1.8 | 1.81 | 1.82 | 1.83 |
| 300 | 1.46 | 1.51 | 1.53 | 1.55 | 1.56 | 1.57 | 1.58 |
| 600 | 0.827 | 0.841 | 0.855 | 0.866 | 0.871 | 0.877 | 0.884 |
| 1200 | 0.427 | 0.442 | 0.451 | 0.456 | 0.459 | 0.462 | 0.466 |

All data on the spec.sheet is an average value:

The tolerance range: $x < 6\text{min}$ (+15%-15%), $6\text{min} \leq x < 10\text{min}$ (+12%-12%), $10\text{min} \leq x < 60\text{min}$ (+8% -8%), $x \geq 60\text{min}$ (+5%-5%)

PQ 12-9 12V-9AH

Lead-Acid Battery

For inquiries, orders, or technical support,
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