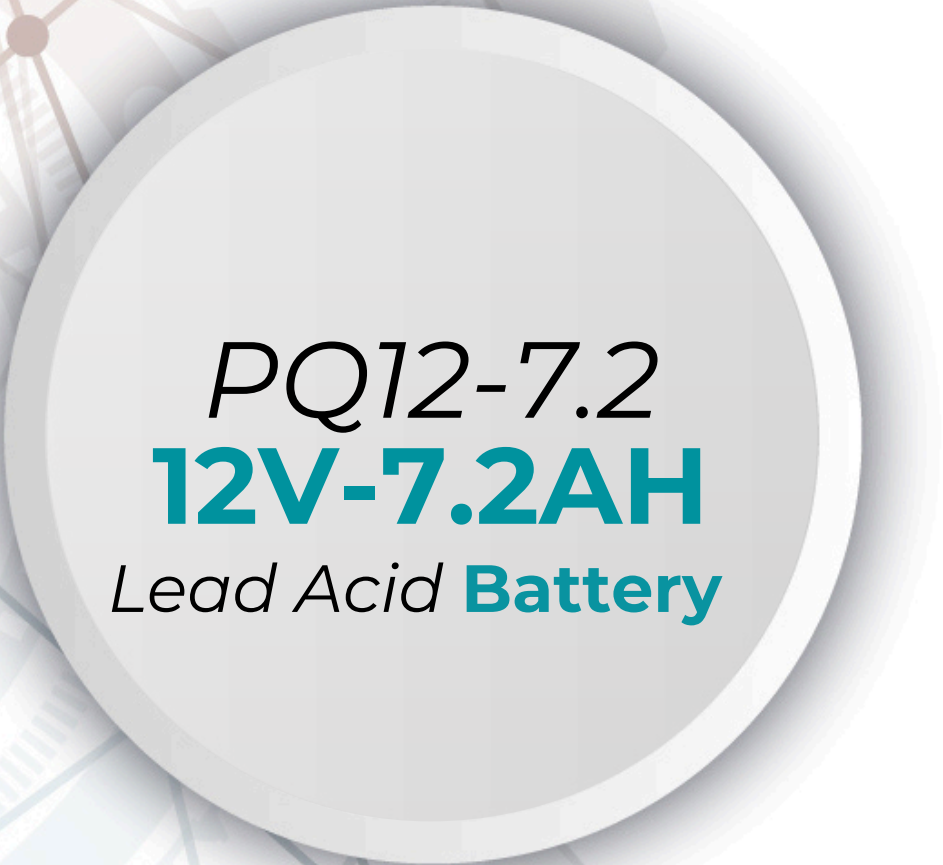




POWERQ
never will be dark



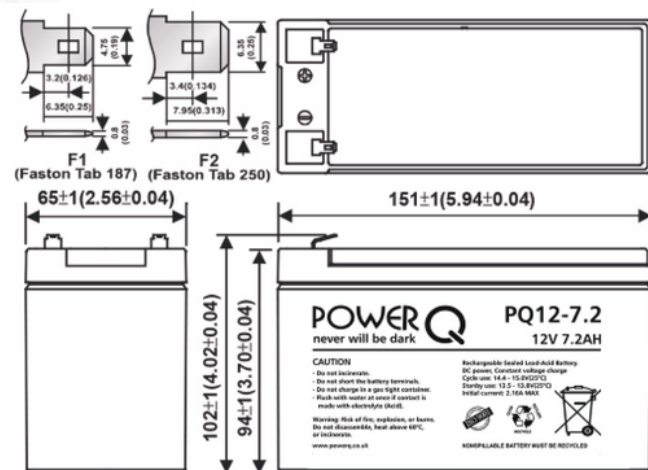
PQ12-7.2
12V-7.2AH
Lead Acid Battery



The PQ12-7.2 is a 12V-7.2Ah lead-acid battery designed for solar, UPS, and backup power. It delivers reliable performance, long service life, and stable energy storage.

DIMENSIONS

Length (L)	151±1 (5.94±0.04)
Width (W)	65±1 (2.56±0.04)
Height (H)	94±1 (3.70±0.04)
Overall Height (HT)	102±1 (4.02±0.04)



SPECIFICATIONS

(Units: mm (inch))

Nominal Voltage (V)

12v

Nominal Capacity

20 hour rate	(0.4A to 10.50V)	8Ah
10 hour rate	(0.76A to 10.50V)	7.6Ah
5 hour rate	(1.36A to 10.20V)	6.8Ah
1 C	(8A to 9.60V)	4.27Ah
3 C	(24A to 9.60V)	2.8Ah

Weight

Approx. 2.3kg (5.06 Lbs.)

Internal Resistance (at 1 KHZ)

Approx. 19 mΩ

Maximum Discharge Current For

5 seconds: 120A

Charging Methods at 25°C (77°F)

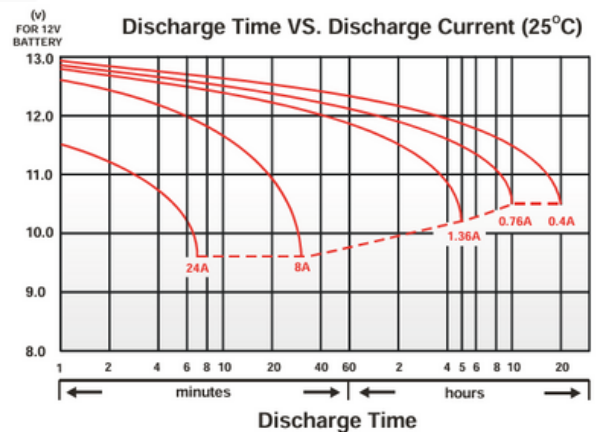
Cycle use:

Maximum Charging Current 2.4A

Standby use:

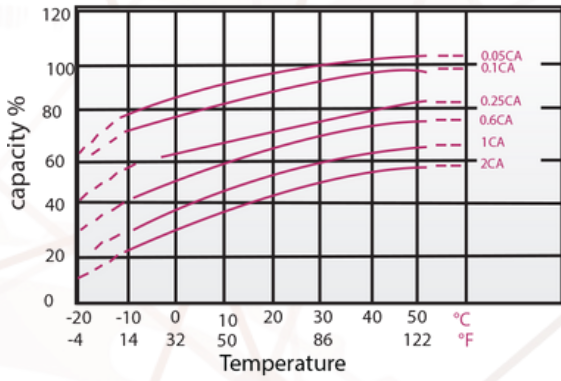
Float Charging Voltage 13.5 to 13.8V

Coefficient -3.0mV/°C/cell

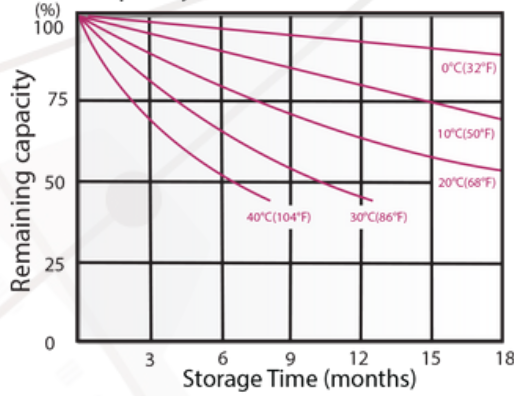


(Units: mm (inch))

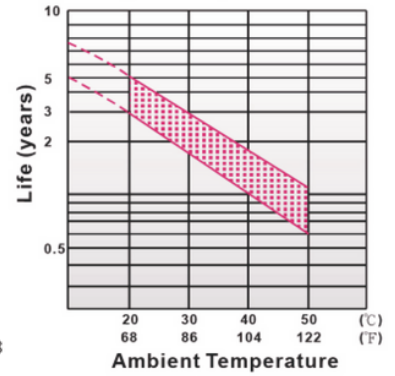
Effect of Temperature on Capacity 25°C(77°)



Capacity retention Characteristic



Trickle (or float) Service Life



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 97%
 3 months 92%
 6 months 85%

Case Material

ABS UL94 HB
 Optional: Flammability resistance of (UL94 V-0)

Design Life & Standard

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	45.0	49.6	53.0	55.9	57.0	58.0	60.5
10	33.5	36.7	38.6	38.9	39.4	39.6	40.8
15	25.0	27.0	28.5	29.5	29.8	30.1	30.6
30	15.7	16.5	17.0	17.5	17.7	17.9	18.1
60	9.92	10.2	10.4	10.6	10.6	10.6	10.8
120	5.37	5.54	5.65	5.75	5.77	5.83	5.89
180	3.82	3.94	4.04	4.13	4.17	4.22	4.26
240	2.96	3.09	3.18	3.23	3.25	3.28	3.32
300	2.49	2.59	2.68	2.75	2.78	2.80	2.82
600	1.39	1.45	1.54	1.56	1.56	1.57	1.59
1200	0.750	0.783	0.824	0.832	0.835	0.842	0.851

Discharge Rates in **Ampères** 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	24.8	27.7	30.1	32.2	33.0	33.8	35.6
10	17.5	19.2	20.4	20.8	21.0	21.3	22.0
15	14.2	15.1	15.6	15.9	16.0	16.2	16.5
30	8.61	8.92	9.14	9.30	9.38	9.45	9.61
60	4.96	5.11	5.23	5.34	5.37	5.40	5.46
120	2.62	2.71	2.78	2.84	2.86	2.89	2.92
180	1.83	1.89	1.95	2.00	2.02	2.04	2.07
240	1.42	1.49	1.54	1.57	1.58	1.59	1.61
300	1.23	1.28	1.36	1.38	1.39	1.40	1.41
600	0.687	0.717	0.760	0.769	0.773	0.778	0.789
1200	0.359	0.376	0.400	0.403	0.405	0.408	0.413

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%)

PQ12-7.2 12V-7.2AH

Lead-Acid Battery

For inquiries, orders, or technical support,
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battery solutions.

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