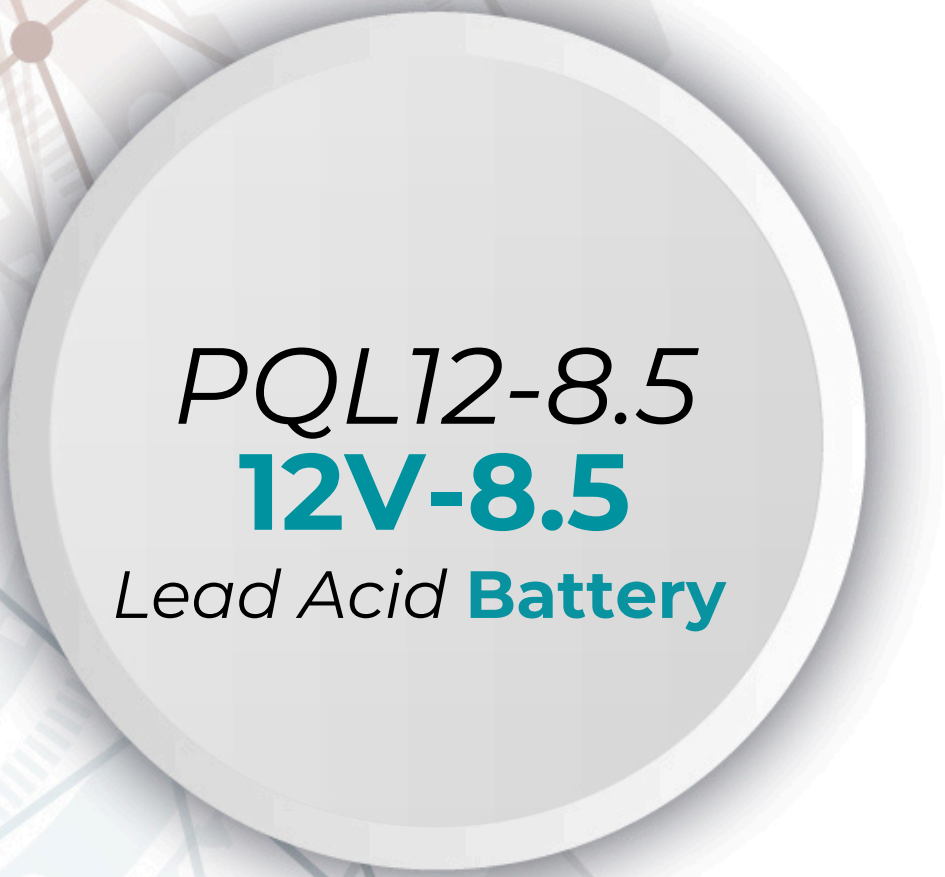




POWERQ
never will be dark



PQL12-8.5
12V-8.5
Lead Acid Battery



The PQL12-8.5 is a 12V-8.5Ah 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

Normal Power

15 mins rate : 35W/cell to 1.60V/cell

Nominal Capacity at 25°C (77°F)

5 hour rate (1.445A to 10.20V) 7.225Ah

1C (8.5A to 9.60V) 5.38Ah

3C (25.5A to 9.60V) 3.4Ah

Weight

Approx. 2.7kg (5.94 Lbs.)

Internal Resistance (at 1 KHz)

Approx. 14mΩ

Maximum Discharge Current For

5 seconds: 127.5A

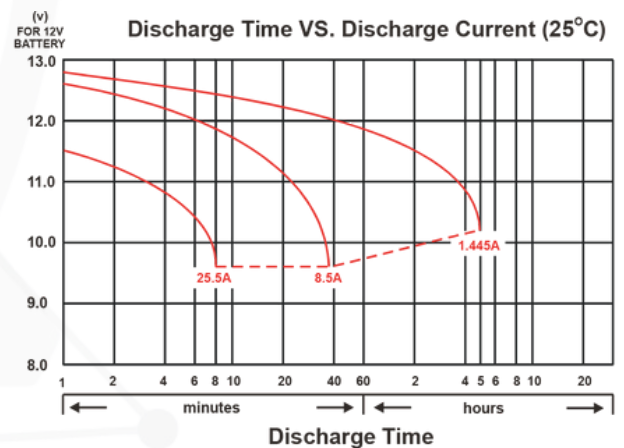
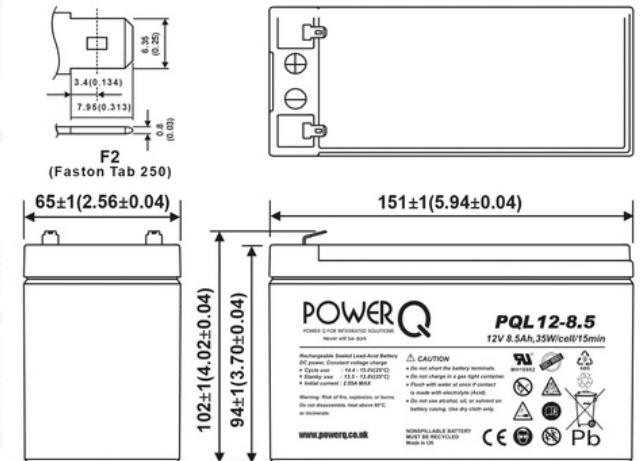
Charging Methods at 25°C (77°F)

Cycle use:

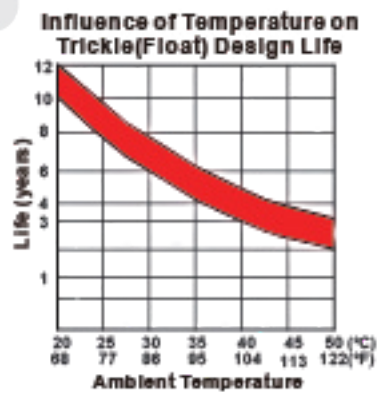
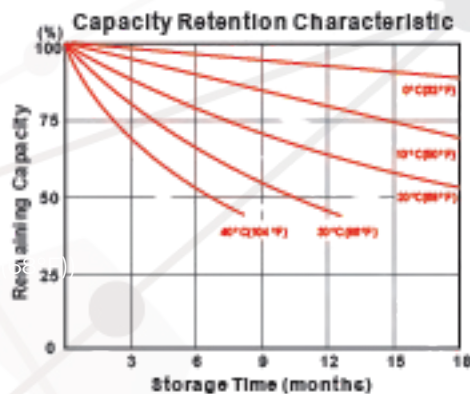
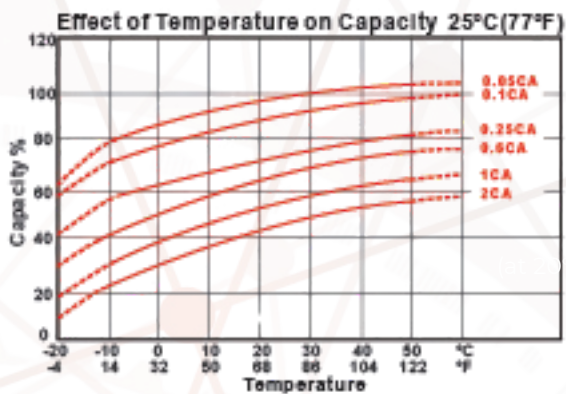
Maximum Charging Current 2.55A

Standby use:

Float Charging Voltage 13.5 to 13.8V
Coefficient -3.0mV/°C/cell



(Units: mm (inch))



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)

1 month	97%
3 months	92%
6 months	85%

Case Material

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

Design Life & Standard

EUROBAT (20°C) 10/12 YEARS LONG LIFE

Terminal

F2 (Faston Tab 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	1.65V	1.60V
5	55.8	59.7	64.1	67.1	70.4	73.8
10	35.8	38.3	41.1	43.1	45.2	47.3
15	27.4	28.7	30.3	31.7	33.1	34.5
30	15.7	16.4	17.3	18.2	19.0	19.8
60	9.76	10.1	10.3	10.4	10.5	10.7
120	5.15	5.32	5.44	5.50	5.56	5.67
180	4.15	4.29	4.38	4.43	4.48	4.57
240	3.33	3.44	3.52	3.56	3.60	3.65
300	2.83	2.93	2.99	3.02	3.05	3.06
600	1.59	1.64	1.68	1.69	1.70	1.71
1200	0.836	0.865	0.884	0.893	0.903	0.910

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

Time (min)	1.85V	1.80V	1.75V	1.70V	1.65V	1.60V
5	29.9	32.0	34.3	36.0	37.7	39.5
10	18.7	20.0	21.5	22.5	23.6	24.7
15	14.0	14.6	15.5	16.2	16.9	17.6
30	7.92	8.28	8.75	9.16	9.57	9.98
60	4.90	5.07	5.18	5.24	5.27	5.29
120	2.57	2.66	2.72	2.75	2.77	2.78
180	2.06	2.13	2.18	2.21	2.22	2.23
240	1.65	1.71	1.75	1.76	1.77	1.78
300	1.40	1.45	1.48	1.50	1.51	1.52
600	0.784	0.811	0.829	0.838	0.842	0.847
1200	0.413	0.427	0.436	0.441	0.443	0.446

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%)

PQL12-8.5 12V-8.5AH

Lead-Acid Battery

For inquiries, orders, or technical support,
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