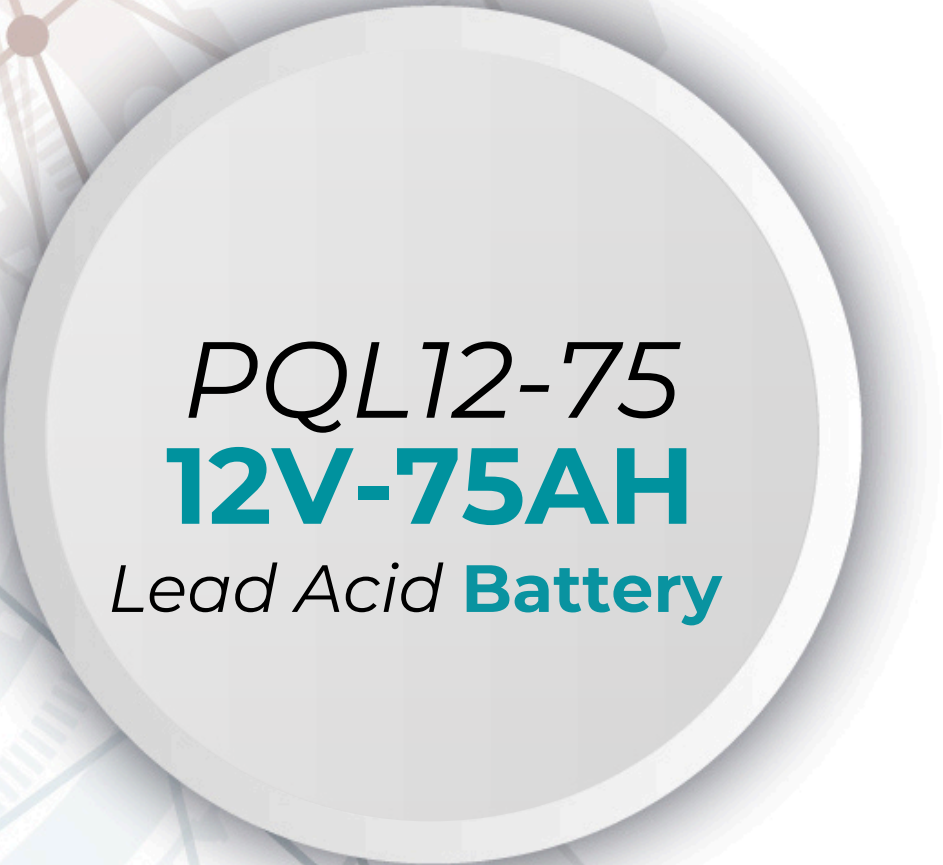




POWERQ
never will be dark



PQL12-75
12V-75AH
Lead Acid Battery



The PQL12-75 is a 12V-75Ah lead-acid battery designed for solar, UPS, and backup power. It delivers reliable performance, long service life, and stable energy storage.

DIMENSIONS

Length (L)	$260 \pm_{-1}^{+2}$ ($10.24 \pm_{-0.04}^{+0.08}$)
Width (W)	$170 \pm_{-1}^{+2}$ ($6.69 \pm_{-0.04}^{+0.08}$)
Height (H)	$202 \pm_{-1}^{+2}$ ($7.95 \pm_{-0.04}^{+0.08}$)
Overall Height (HT)	$207 \pm_{-1}^{+2}$ ($8.15 \pm_{-0.04}^{+0.08}$)

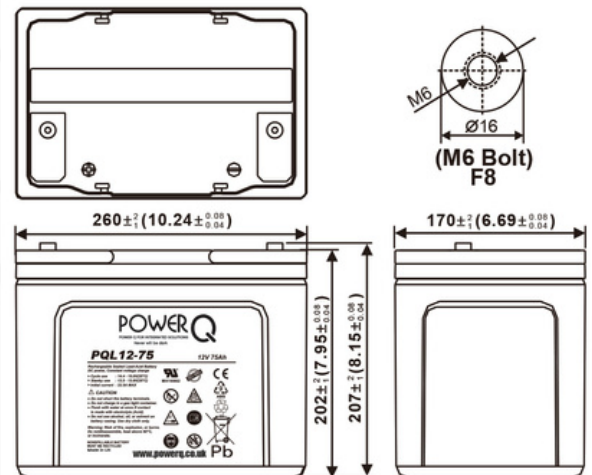
Description of torque value of hardware for the terminals

Recommended torque value:

M6: 7 N·m (71 Kgf·cm)

Maximum allowable torque value:

M6: 10 N·m (102 Kgf·cm)



SPECIFICATIONS

(Units: mm (inch))

Nominal Voltage (V)

12v

Nominal Capacity at 25°C (77°F)

20 hour rate	(3.75A to 10.50V)	75Ah
10 hour rate	(7.5A to 10.80V)	75Ah
5 hour rate	(12.75A to 10.20V)	63.75Ah
1 hour rate	(45A to 9.60V)	45Ah
1C	(75A to 9.60V)	47.5Ah

Weight

Approx. 24.2kg (53.24 Lbs.)

Internal Resistance (at 1 KHz)

Approx. 5 mΩ

Maximum Discharge Current For

5 seconds: 900A

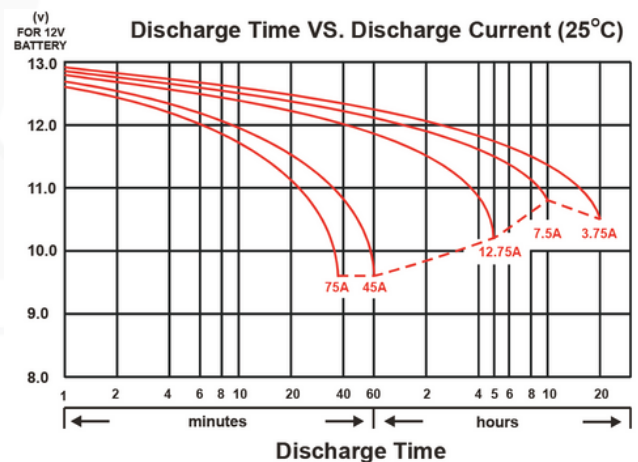
Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current	22.5A

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) (at 20°C (68°F))

1 month	98%
3 months	94%
6 months	85%

Case Material

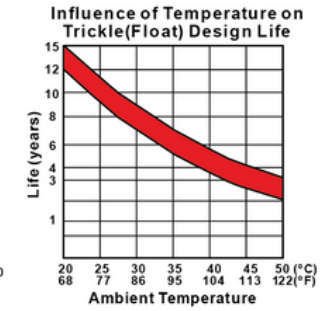
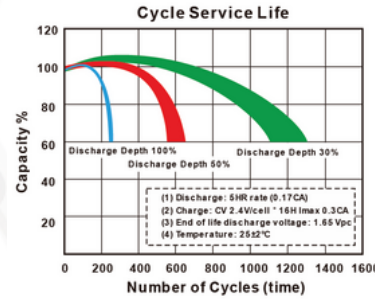
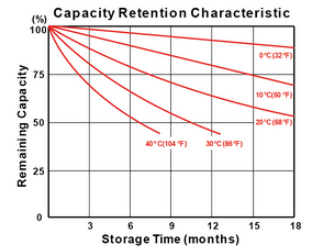
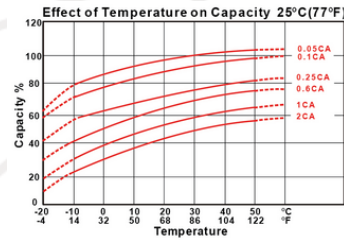
ABS UL94 HB
Optional: Flammability resistance of (UL94-V-0)

Design Life & Standard

EUROBAT (20°C) : >12 YEARS VERY LONG LIFE

Terminal

F8



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
15	292	311	326	333	340	345	350
20	232	250	261	265	268	270	270
30	177	187	197	201	203	204	205
40	140	145	150	152	153	153	154
45	129	134	136	138	139	139	140
60	97.1	97.9	98.4	98.7	98.9	99.0	99.0
90	68.8	70.0	70.9	71.7	72.2	72.5	72.8
120	54.6	56.5	57.4	57.7	58.0	58.2	58.4
180	37.7	38.3	38.8	39.1	39.3	39.4	39.5
240	29.5	30.0	30.5	30.7	30.9	31.0	31.1
300	24.1	24.4	24.6	24.8	24.9	25.0	25.0
480	16.4	16.7	16.9	17.0	17.1	17.1	17.2
600	13.7	14.2	14.7	14.9	15.1	15.2	15.2
1200	7.74	7.82	7.87	7.92	7.95	7.97	7.98

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
15	155	170	184	189	194	197	199
20	124	138	147	151	153	155	157
30	95.0	100	102	105	107	109	110
40	72.7	77.0	79.1	80.7	82.0	83.1	83.7
45	66.7	70.4	71.5	72.7	73.5	74.3	75.0
60	51.0	53.0	54.0	54.9	55.5	55.9	56.6
90	35.8	36.7	37.5	38.3	38.8	39.3	39.8
120	27.8	29.0	29.8	30.2	30.6	30.8	31.0
180	19.5	20.4	20.9	21.1	21.3	21.4	21.5
240	15.2	15.7	16.0	16.2	16.3	16.3	16.4
300	12.7	13.0	13.2	13.4	13.6	13.7	13.8
480	8.53	8.88	9.20	9.22	9.23	9.24	9.24
600	7.20	8.00	8.01	8.01	8.02	8.02	8.02
1200	3.75	4.00	4.02	4.03	4.03	4.04	4.04

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%)

PQL12-75

12V-75AH

Lead-Acid Battery

For inquiries, orders, or technical support, we are available 24/7 to assist you with your battery solutions.

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