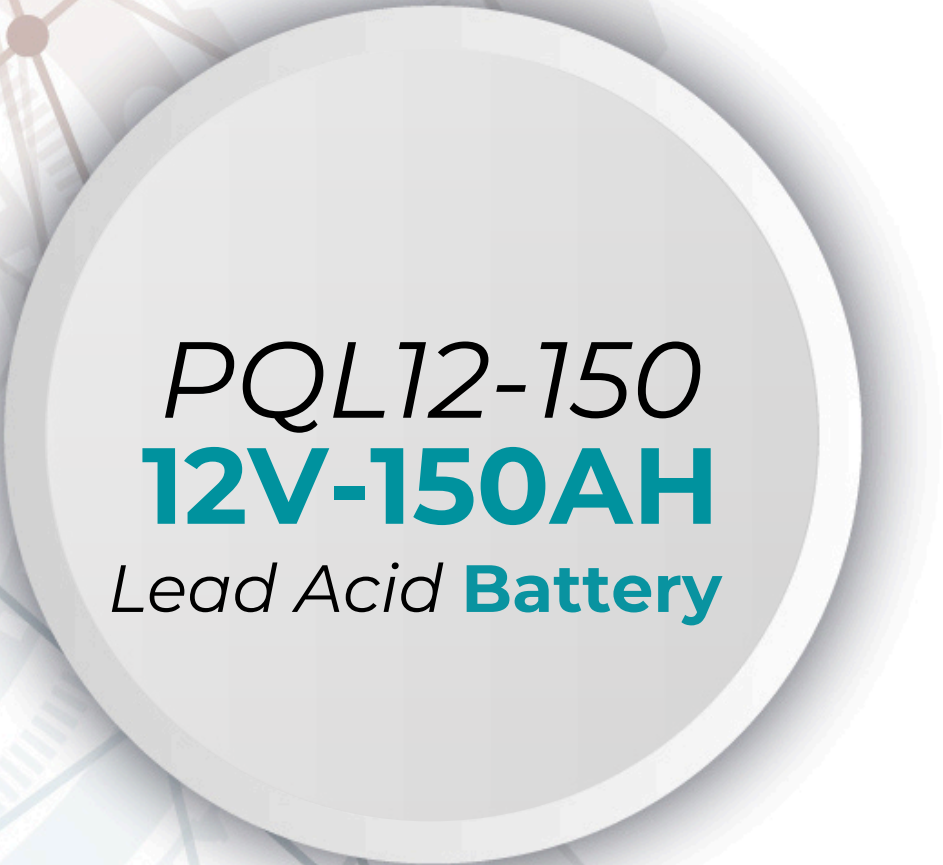




POWERQ
never will be dark



PQL12-150
12V-150AH
Lead Acid Battery



The PQL12-150 is a 12V-150Ah lead-acid battery designed for solar, UPS, and backup power. It delivers reliable performance, long service life, and stable energy storage.

DIMENSIONS

Length (L)	483±3 (19.02±0.12)
Width (W)	170±3 (6.69±0.12)
Height (H)	240±3 (9.45±0.12)
Overall Height (HT)	240±3 (9.45±0.12)

Description of torque value of hardware for the terminals

Recommended torque value:

M8: 12 N·m (122 Kgf·cm)

Maximum allowable torque value:

M8: 20 N·m (204 Kgf·cm)

SPECIFICATIONS

(Units: mm (inch))

Nominal Voltage (V)

12v

Nominal Capacity at 25°C (77°F)

20 hour rate	(7.5A to 10.50V)	150Ah
10 hour rate	(15A to 10.80V)	150Ah
5 hour rate	(25.5A to 10.20V)	127.5Ah
1 hour rate	(90A to 9.60V)	90Ah

Weight

Approx. 45.5kg (100 Lbs.)

Internal Resistance (at 1 KHz)

Approx. 4.8 mΩ

Maximum Discharge Current For

5 seconds: 1500A

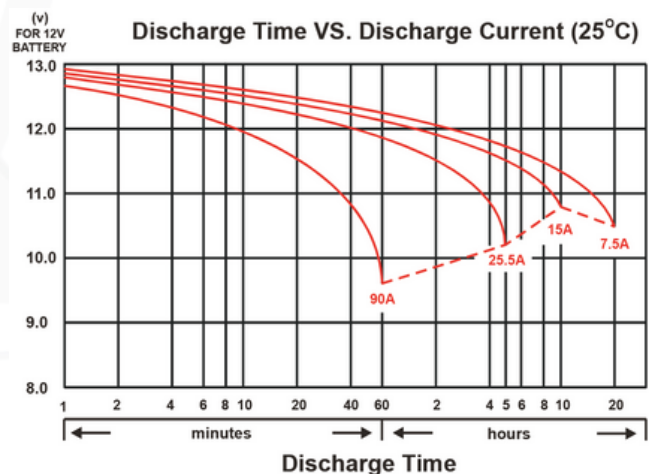
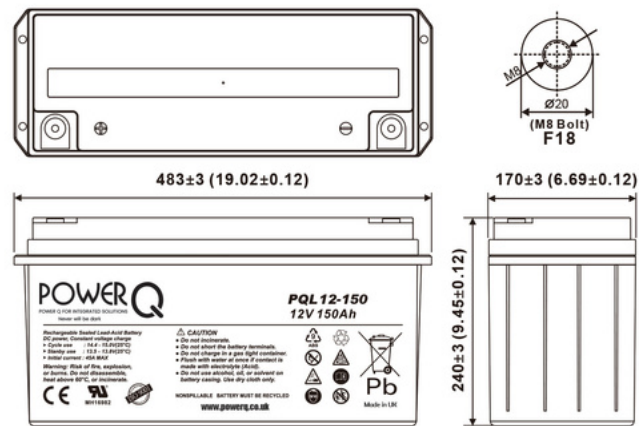
Charging Methods at 25°C (77°F)

Cycle use:

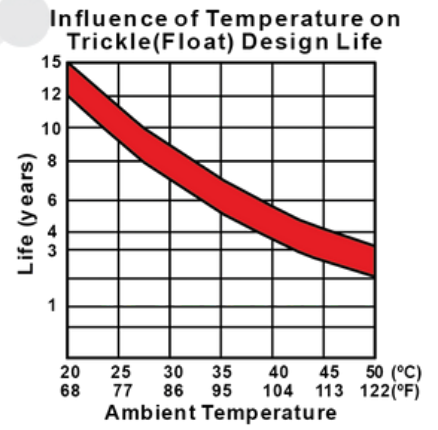
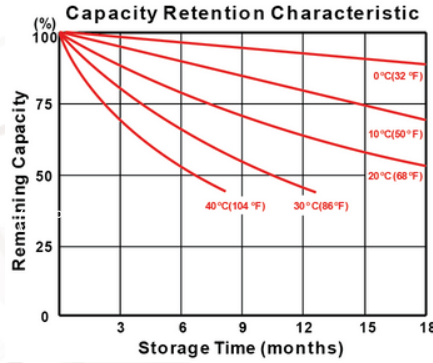
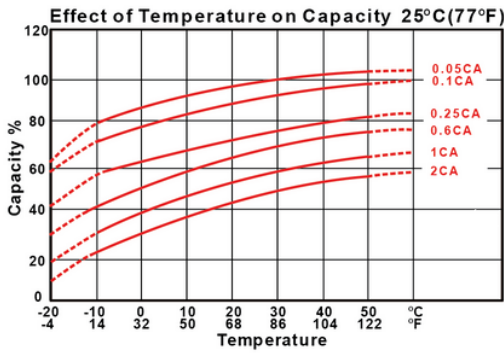
Maximum Charging Current 45A

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	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

F18

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	359	401	440	459	478	489	500
30	257	276	293	301	309	313	324
60	161	167	170	172	174	176	183
90	132	139	141	142	143	143	145
120	106	112	113	114	115	115	117
180	75.0	78.5	79.7	80.5	80.9	81.1	81.9
240	58.7	61.3	62.2	62.8	63.1	63.3	63.9
300	48.3	50.4	51.1	51.6	51.9	52.0	52.5
480	32.9	34.1	34.6	35.0	35.2	35.3	35.5
600	29.3	30.3	30.7	31.0	31.2	31.2	31.5
1200	14.8	15.3	15.6	15.9	16.1	16.1	16.2

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	196	219	240	250	261	267	273
30	133	143	152	156	160	162	168
60	80.9	84.0	85.9	86.9	87.9	88.6	92.3
90	66.2	69.9	70.9	71.6	71.9	72.1	73.1
120	53.3	56.1	56.9	57.5	57.7	57.9	58.6
180	37.5	39.3	39.9	40.3	40.4	40.6	41.0
240	29.2	30.5	31.0	31.3	31.4	31.5	31.8
300	24.1	25.1	25.5	25.7	25.9	25.9	26.1
480	16.3	17.0	17.2	17.4	17.5	17.5	17.6
600	14.5	15.0	15.1	15.2	15.2	15.3	15.3
1200	7.30	7.52	7.56	7.60	7.64	7.68	7.70

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%)

PQL12-150 12V-150AH

Lead-Acid Battery

For inquiries, orders, or technical support,
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