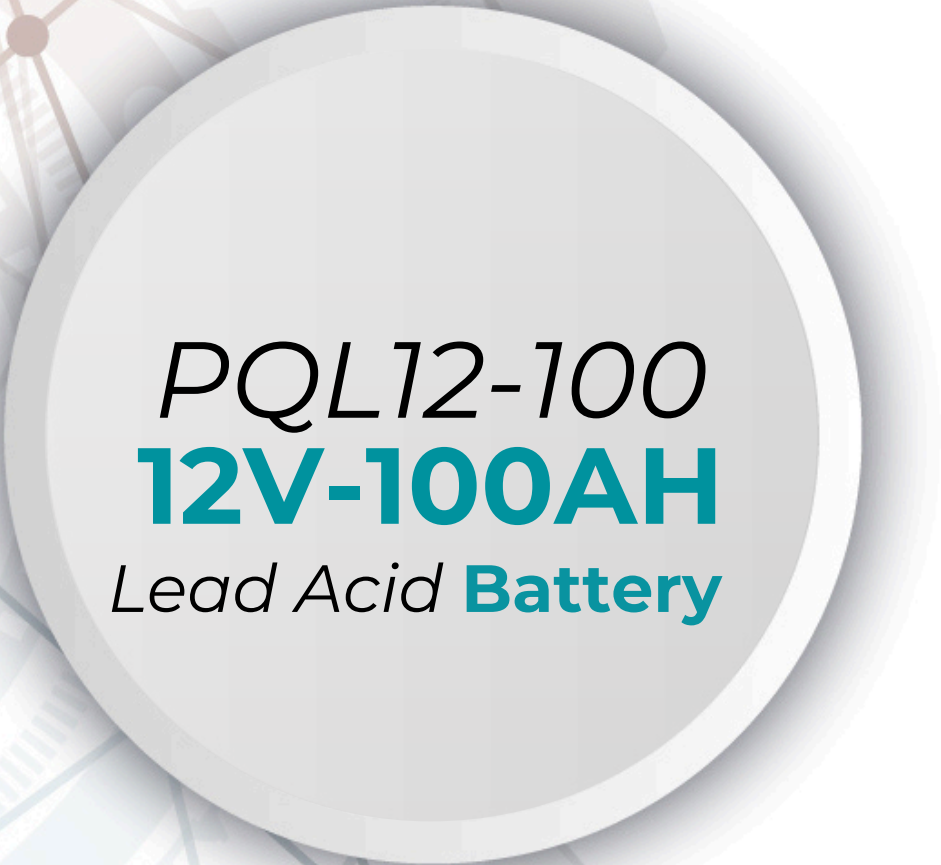




POWERQ
never will be dark



PQL12-100
12V-100AH
Lead Acid Battery



The PQL12-100 is a 12V-100Ah lead-acid battery designed for solar, UPS, and backup power. It delivers reliable performance, long service life, and stable energy storage.

DIMENSIONS

Length (L)	307 ±3 (12.09 ±0.12)
Width (W)	168 ±3 (6.61 ±0.12)
Height (H)	208 ±3 (8.19 ±0.12)
Overall Height (HT)	213 ±3 (8.39 ±0.12)

(Units: mm (inch))

SPECIFICATIONS

Nominal Voltage (V)	(numbers of cells: 6)
	12v

Nominal Capacity at 25°C (77°F)	
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20 hour rate	(5A to 10.50V)	100Ah
10 hour rate	(10A to 10.80V)	100Ah
5 hour rate	(17A to 10.20V)	85Ah
1 hour rate	(60A to 9.60V)	60Ah
1C	(100A to 9.60V)	63.33Ah

Weight
Approx. 29.9kg (65.8 Lbs.)

Internal Resistance (at 1 KHz)
Approx. 5 mΩ

Maximum Discharge Current For
5 seconds: 1200A

Charging Methods at 25°C (77°F)
--

Cycle use:	
Charging Voltage	14.4 to 15.0V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current	30A
Standby use:	
Float Charging Voltage	13.5 to 13.8V
Coefficient	-3.0mV/°C/cell

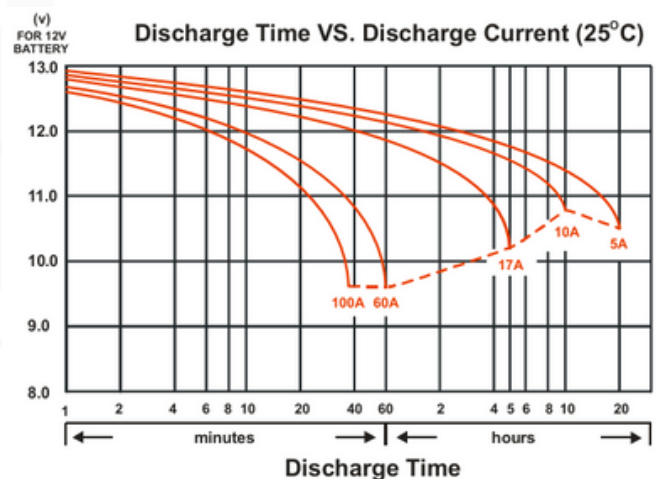
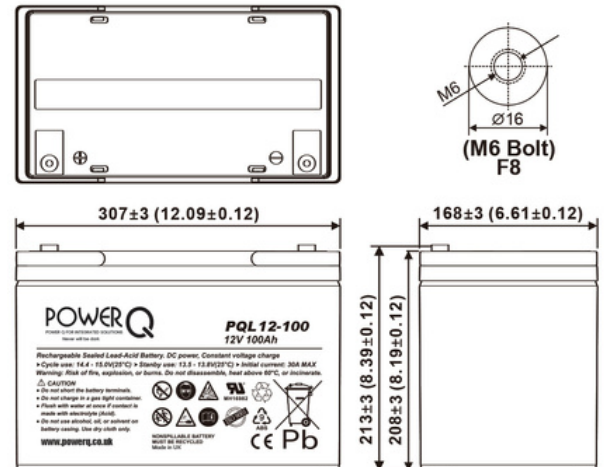
Description of torque value of hardware for the terminals

Recommended torque value:

M6: 7 N·m (71 Kgf·cm)

Maximum allowable torque value:

M6: 10 N·m (102 Kgf·cm)



(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

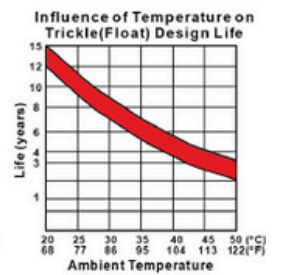
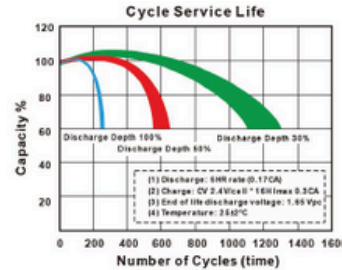
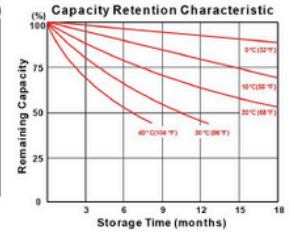
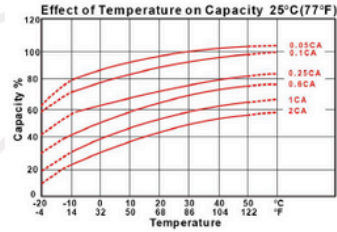
ABS UL94 HB
Optional: Flammability resistance of (UL94-V-0)

Design Life & Standard

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

Terminal

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
5	490	545	575	600	605	610	615
10	425	450	468	485	490	495	500
15	319	349	374	384	394	402	410
20	276	289	300	305	308	310	312
30	193	203	210	218	222	227	230
60	89.8	100	109	117	124	131	138
90	87.5	92.0	92.9	93.3	93.5	93.7	93.8
120	68.3	71.6	74.2	75.1	75.8	76.5	77.0
180	52.6	54.5	55.5	56.5	57.3	58.1	58.8
240	35.1	37.2	39.2	40.4	41.6	42.4	43.2
300	33.8	35.5	36.7	37.0	37.3	37.5	37.7
600	18.9	19.5	19.9	20.1	20.3	20.5	20.7
1200	10.3	10.6	10.9	11.1	11.2	11.3	11.4

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	250	290	320	335	348	353	358
10	205	235	260	279	286	291	294
15	166	186	201	211	216	221	225
20	145	155	162	167	171	175	178
30	98.5	105	110	114	118	122	126
60	60.0	62.2	64.1	65.9	67.2	68.5	69.6
90	48.1	49.5	50.5	51.0	51.2	51.4	51.6
120	36.2	37.2	38.1	38.6	39.0	39.3	39.5
180	27.9	28.8	29.4	29.7	30.0	30.2	30.4
240	18.4	19.4	20.1	20.3	20.5	20.6	20.7
300	15.6	16.5	17.2	17.7	18.0	18.2	18.4
600	9.70	10.0	10.2	10.4	10.5	10.6	10.7
1200	5.07	5.23	5.36	5.38	5.40	5.42	5.44

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%)

PQL12-100 12V-100AH

Lead-Acid Battery

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

Phone: +44 776 981 1995

Email: info@powerq.co.uk

Website: www.powerq.com



POWER Q
never will be dark

PQL12-100
12V 100AH

CAUTION

- Do not incinerate.
- Do not short the battery terminals.
- Do not charge in a gas tight container.
- Flush with water at once if contact is made with electrolyte (Acid).

Warning: Risk of fire, explosion, or burns.
Do not disassemble, heat above 60°C,
incinerate.

Rechargeable Sealed Lead-Acid Battery.
DC power, Constant voltage charge
Cycle use: 14.4 - 15.0V(25°C)
Standby use: 13.5 - 13.8V(25°C)
Initial current: 30A MAX



MH66621



NONSPILLABLE BATTERY MUST BE RECYCLED