




POWERQ
never will be dark



PQG12-100
12V-100AH
Vrla Gel Battery



The PQG12-100 is a 12V-100Ah Vrla Gel Battery designed for solar, UPS, and backup power. It delivers reliable performance, long service life, and stable energy storage.

DIMENSIONS

Length (L)	329.5±3 (12.97 ±0.12)
Width (W)	172.3±3 (6.78 ±0.12)
Height (H)	215±3 (8.46 ±0.12)
Overall Height (HT)	222±3 (8.74 ±0.12)

(Units: mm (inch))

SPECIFICATIONS

Nominal Voltage (V)

12v

Nominal Capacity

10 hour rate	(10A to 10.80V)	100Ah
8 hour rate	(11.8A to 10.80V)	94.4Ah
5 hour rate	(17A to 10.80V)	85Ah
1 hour rate	(55A to 10.80V)	55Ah
1C	(100A to 9.60V)	53.33Ah

Weight

Approx. 31.3kg (68.9 Lbs.)

Internal Resistance (at 1 KHz)

Approx. 4 mΩ

Maximum Discharge Current For

5 seconds: 1200A

Charging Methods at 25°C (77°F)

Cycle use:

Charging Voltage	13.8to 14.4V
Coefficient	-5.0mV/°C/cell
Maximum Charging Current	30A

Standby use:

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

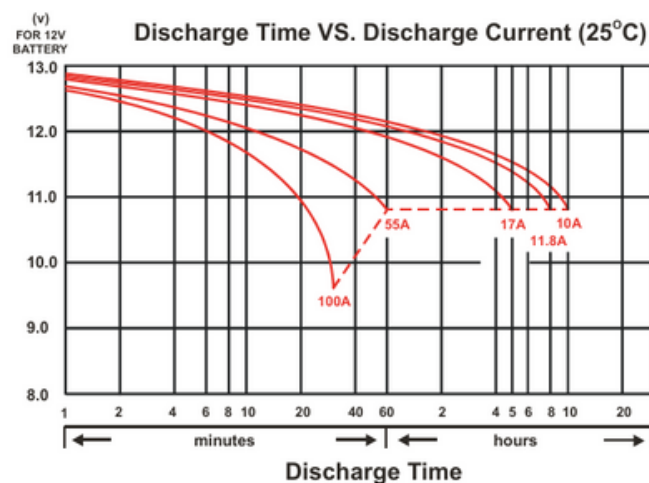
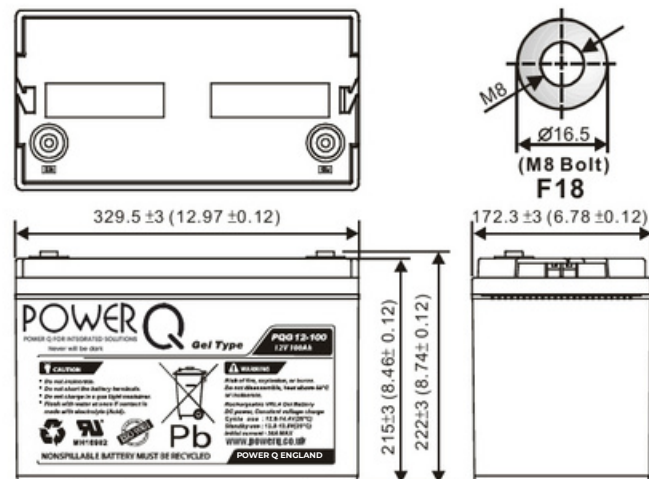
Description of torque value of hardware for the terminals

Recommended torque value:

M8: 12 N·m (122Kgf·cm)

Maximum allowable torque value:

M8: 20 N·m (204 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) at 20°C (68°F)

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

Case Material

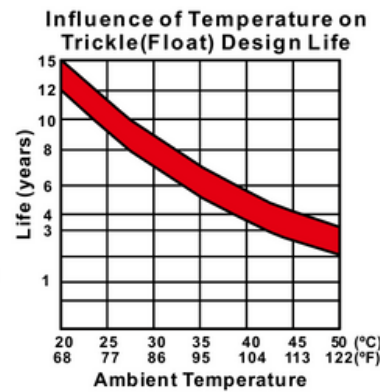
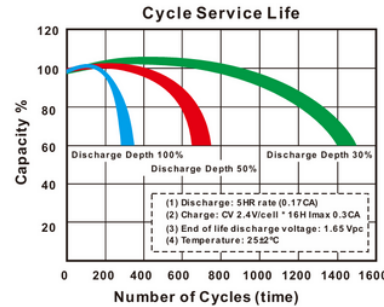
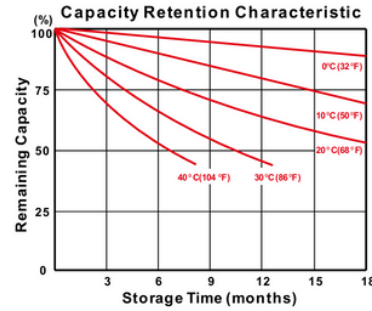
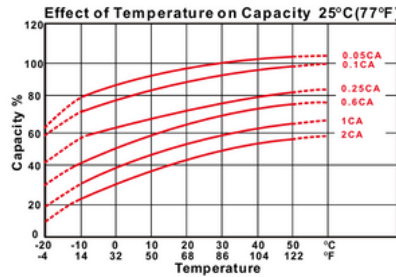
ABS UL94 HB
Optional: Flammability resistance of (UL94-V-0)

Design Life

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	1.65V	1.60V
10	342	370	397	414	433	465
15	285	315	345	358	373	383
20	250	272	299	303	319	333
30	207	222	230	234	235	238
60	123	132	140	141	143	145
180	49.9	53.2	55.2	55.6	56.7	58.2
300	33.4	35.5	37.3	37.7	38.0	38.3
600	18.8	19.2	19.3	19.7	20.0	20.2
1200	9.8	9.9	10.1	10.4	10.5	10.6

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
10	176	199	221	238	249	263
15	151	168	182	194	202	212
20	133	146	161	165	174	184
30	107	114	120	121	122	123
60	59.1	64.3	68.0	70.4	71.6	73.5
180	27.3	28.1	28.6	29.5	29.7	30.1
300	16.9	18.1	18.5	18.7	19.1	19.2
600	9.40	10.2	10.3	10.4	10.5	10.6
1200	5.05	5.16	5.22	5.43	5.49	5.54

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%)

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Vrla Gel Battery

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