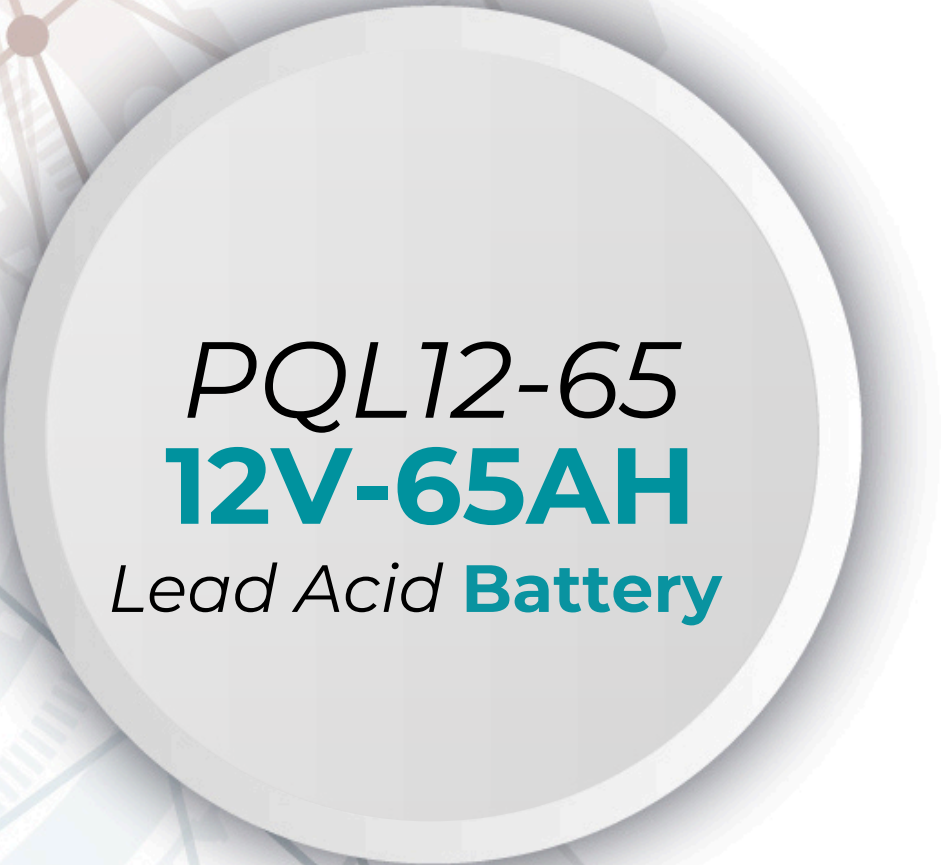




POWERQ
never will be dark



PQL12-65
12V-65AH
Lead Acid Battery



The PQL12-65 is a 12V-65Ah lead-acid battery designed for solar, UPS, and backup power. It delivers reliable performance, long service life, and stable energy storage.

DIMENSIONS

Length (L)	350 ± 2 (13.78 \pm $\frac{0.08}{0.04}$)
Width (W)	167 ± 2 (6.57 \pm $\frac{0.08}{0.04}$)
Height (H)	179 ± 2 (7.05 \pm $\frac{0.08}{0.04}$)
Overall Height (HT)	179 ± 2 (7.05 \pm $\frac{0.08}{0.04}$)

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	(3.25A to 10.50V)	65Ah
10 hour rate	(6.175A to 10.50V)	61.75Ah
5 hour rate	(11.05A to 10.20V)	55.25Ah
1 C	(65A to 9.60V)	41.17Ah
3 C	(195A to 9.60V)	26Ah

Weight

Approx. 20.5kg (45.1 Lbs.)

Internal Resistance (at 1 KHz)

Approx. 4 mΩ

Maximum Discharge Current For

5 seconds: 780A

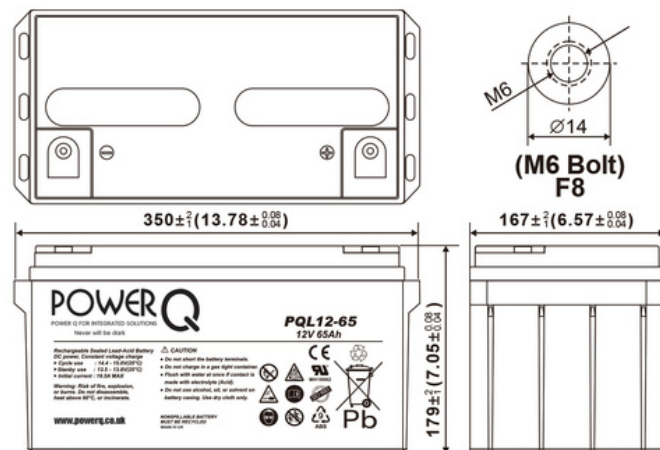
Charging Methods at 25°C (77°F)

Cycle use:

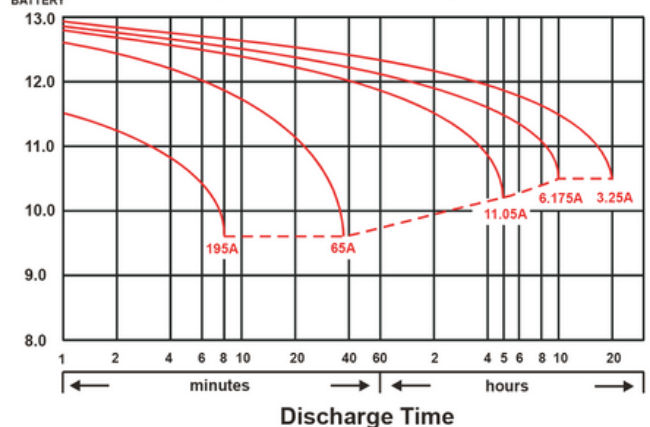
Maximum Charging Current 19.5A

Standby use:

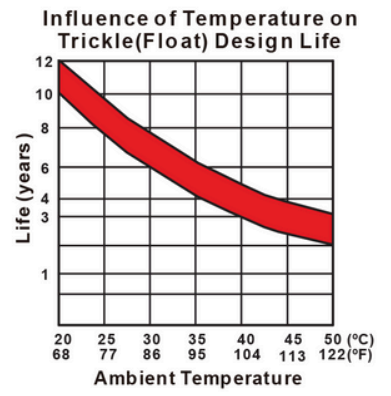
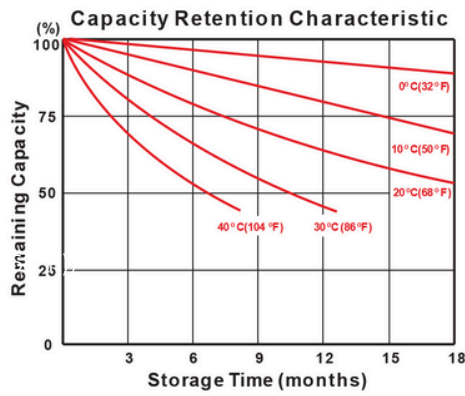
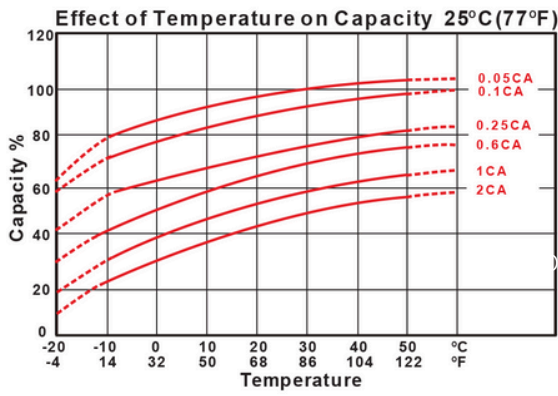
Float Charging Voltage 13.5 to 13.8V
Coefficient -3.0mV/°C/cell



(v) FOR 12V BATTERY Discharge Time VS. Discharge Current (25°C)



(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) : 10/12 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	190	210	227	240	245	249	251
30	114	126	135	141	144	147	149
45	88.2	95.4	101	103	105	106	107
60	73.3	79.0	83.0	84.3	85.0	85.5	85.9
90	58.9	60.6	62.1	62.9	63.2	63.3	63.4
120	46.1	47.9	49.5	50.0	50.2	50.4	50.5
180	32.7	33.6	34.3	34.8	35.0	35.2	35.3
240	26.3	27.1	27.8	28.1	28.2	28.3	28.4
300	21.9	22.6	23.2	23.4	23.5	23.6	23.6
480	15.0	15.6	16.0	16.1	16.2	16.2	16.3
600	12.6	13.0	13.3	13.3	13.4	13.5	13.5
1200	6.55	6.77	6.87	6.91	6.93	6.94	6.95

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	95.5	109	120	130	135.0	140	145
30	51.2	60.7	69.2	77.2	77.5	77.8	78.0
45	45.2	50.1	54.5	58.5	59.3	59.8	60.0
60	37.0	39.7	42.0	43.5	44.5	44.8	45.0
90	29.8	31.1	32.2	33.0	33.5	33.7	33.8
120	23.5	24.3	25.0	25.6	26.0	26.2	26.3
180	16.5	17.1	17.6	17.9	18.0	18.1	18.2
240	13.2	13.6	14.0	14.1	14.2	14.3	14.4
300	10.9	11.3	11.6	11.7	11.8	11.9	12.0
480	7.44	7.69	7.88	7.93	7.96	7.98	8.00
600	6.20	6.39	6.55	6.60	6.62	6.64	6.65
1200	3.25	3.36	3.41	3.43	3.44	3.45	3.45

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%)

PQL12-65 12V-65AH

Lead-Acid Battery

For inquiries, orders, or technical support,
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