




**POWERQ**  
never will be dark



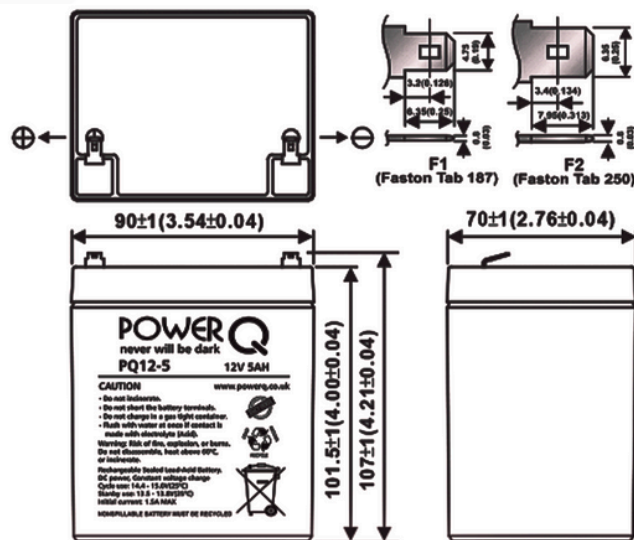
*PQ12-5*  
**12V-5AH**  
*Lead Acid* **Battery**



The PQ12-5 is a 12V-5Ah lead-acid battery designed for solar, UPS, and backup power. It delivers reliable performance, long service life, and stable energy storage.

## DIMENSIONS

<b>Length (L)</b>	90±1 (3.54±0.04)
<b>Width (W)</b>	70±1 (2.76±0.04)
<b>Height (H)</b>	101.5±1 (4.00±0.04)
<b>Overall Height (HT)</b>	107±1 (4.21±0.04)



## SPECIFICATIONS

(Units: mm (inch))

### Nominal Voltage (V)

12v

### Nominal Capacity

20 hour rate	(0.25A to 10.50V)	5Ah
10 hour rate	(0.475A to 10.50V)	4.75Ah
5 hour rate	(0.85A to 10.20V)	4.25Ah
1 C	(5A to 9.60V)	2.67Ah
3 C	(15A to 9.60V)	1.75Ah

### Weight

Approx. 1.62kg (3.56 Lbs.)

### Internal Resistance (at 1 KHZ)

Approx. 34 mΩ

### Maximum Discharge Current For

5 seconds: 75A

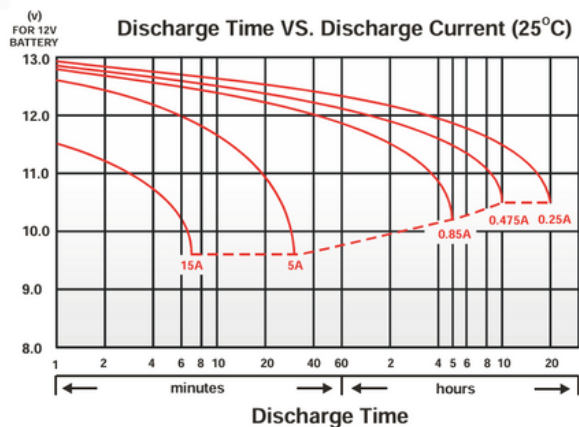
### Charging Methods at 25°C (77°F)

#### Cycle use:

Maximum Charging Current 1.5A

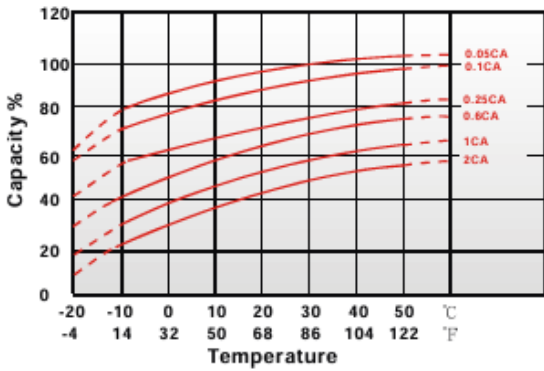
#### Standby use:

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

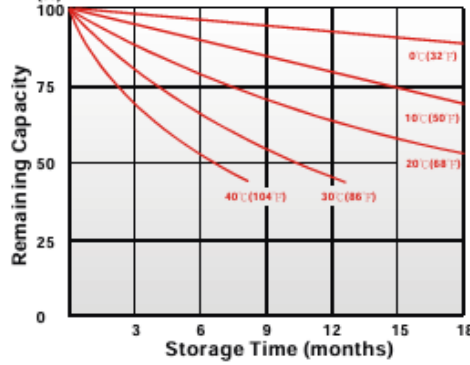


(Units: mm (inch))

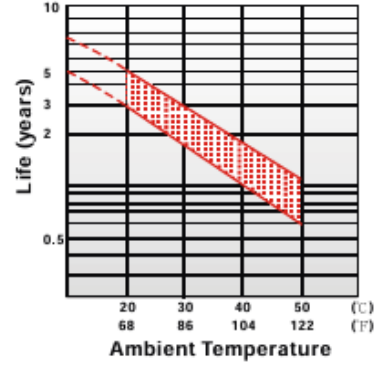
### Effect of Temperature on Capacity 25°C (77°F)



### Capacity Retention Characteristic



### Trickle (or float) Service Life



#### 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)

#### Case Material

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

#### Charge Retention (Shelf life) (at 20°C (68°F))

1 month	97%
3 months	92%
6 months	85%

#### Design Life & Standard

3-5 YEARS

#### Terminal

F1 or F2 (Faston Tab 187 or 250)

## 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	22.7	25.7	27.8	29.8	30.7	31.7	32.8
10	16.4	18.7	20.0	21.0	21.3	21.8	22.3
15	13.3	14.8	15.4	15.8	16.0	16.1	16.3
30	7.78	8.73	9.08	9.43	9.53	9.65	9.77
60	4.38	4.95	5.32	5.62	5.68	5.78	5.87
120	2.70	2.97	3.10	3.20	3.25	3.32	3.38
180	2.12	2.30	2.40	2.47	2.50	2.55	2.60
240	1.72	1.85	1.93	1.98	2.02	2.03	2.07
300	1.53	1.64	1.68	1.72	1.73	1.75	1.78
600	0.950	1.01	1.03	1.05	1.07	1.09	1.10
1200	0.490	0.518	0.538	0.552	0.555	0.562	0.568

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	14.9	17.0	18.3	18.8	19.0	19.2	19.4
10	10.0	11.3	11.6	11.8	11.9	12.0	12.1
15	7.21	7.83	8.31	8.53	8.58	8.65	8.74
30	4.36	4.82	4.97	5.11	5.15	5.21	5.26
60	2.53	2.78	2.89	2.97	2.99	3.02	3.05
120	1.42	1.54	1.62	1.65	1.66	1.67	1.69
180	1.14	1.21	1.23	1.25	1.26	1.27	1.28
240	0.889	0.948	0.973	0.996	1.00	1.01	1.02
300	0.808	0.839	0.852	0.863	0.867	0.872	0.878
600	0.458	0.480	0.495	0.503	0.507	0.511	0.515
1200	0.231	0.245	0.257	0.265	0.268	0.272	0.276

**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%)

# PQ12-5 12V-5AH

## Lead-Acid Battery

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