



**POWER  
STORAGE  
SOLUTIONS**  
"Power is at the center of everything we do"

## 12MQ Battery Series

**Valve-Regulated  
Lead Acid Batteries  
For UPS Standby  
Power Applications**

**12MQ1200  
12MQ1800  
12MQ2100  
12MQ2400  
12MQ3000  
12MQ3300**

**UL listing – File No.  
MH 63066**

**Manufactured to  
rigid standards in  
ISO 9001 registered  
production facilities**

**Approved for shipping  
As non-hazardous,  
non-spillable – per  
IATA Special Provision  
A67 and DOT 49 CFR.**

- ✚ Positive and negative plate grids made of lead-calcium-tin alloy for long life and efficient recharge.
- ✚ Flame retardant case and cover to meet UL1778.
- ✚ Individual cell vents.
- ✚ Power Storage Solutions 12MQ battery containers and covers are hermetically sealed to provide leak resistance over the life of the product.
- ✚ AGM separators: Electrolyte is completely absorbed into separator.
- ✚ High performance brass threaded receptacle, bolt terminal, and fast-on terminals.
- ✚ Increased energy density.
- ✚ Computer optimized electrochemistry for increased power up to the 15 minute rate.
- ✚ 100% initial battery capacity.
- ✚ Normal operating temperature range -4 °F/-20 °C to 122 °F/50 °C.
- ✚ Float charging voltage 2.25 – 2.28 Volts per cell at 77 °F/25 °C.
- ✚ Charging current: Power Storage Solutions 12MQ batteries can be safely recharged at high current rates.
- ✚ Storage time: Power Storage Solutions 12MQ batteries can be stored for up to 6 months at
- ✚ 77 °F/25 °C before a freshening charge is required. At higher temperatures this time interval will be reduced.
- ✚ Power Storage Solutions 12MQ batteries are designed to be installed on their base.

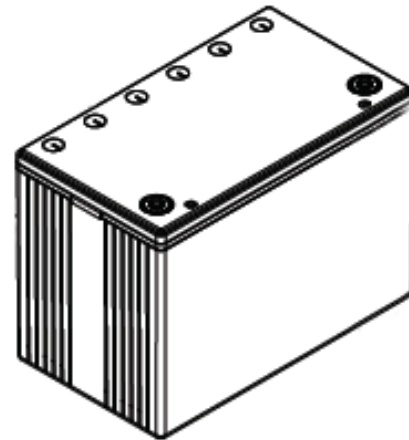
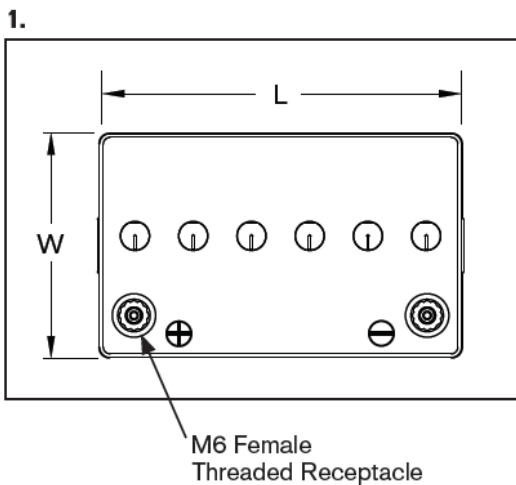
Consult Power Storage Solutions before installing in any other orientation.

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[PwrStorageSolutions.com](http://PwrStorageSolutions.com)

# 12MQ Battery Series

## General Specifications

Model	Nominal Ah 8 hr. rate to 1.75 VPC @77 °F (25 °C)	Watts/Cell 15 min. rate to 1.67 VPC @77 °F (25 °C)	Short circuit current	Max discharge current (A-2 min. rate)	Internal Resistance mΩ	Weight lbs. and (Kg)
12MQ1200	44	204	2775	439	4.5	43 (19.5)
12MQ1800	70	284	3175	503	3.9	60 (27.2)
12MQ2100	82	336	3700	586	3.4	71 (32.2)
12MQ2400	94	381	4225	670	3	80 (36.3)
12MQ3000	119	506	4510	913	2.8	103 (46.7)
12MQ3300	123	540	4775	961	2.8	106 (48.1)



All dimensions are for reference only. Contact Power Storage Solutions for complete specifications

Model	Overall Height* inch (mm)	Width inch (mm)	Length inch (mm)	Weight lbs and (Kg)	Terminal	Torque **
12MQ1200	8.2 (208)	5.5 (140)	8.9 (226)	43 (19.5)	M6	60 in.-lbs. (6.8 N-m)
12MQ1800	8.2 (208)	6.8 (173)	10.2 (259)	60 (27.2)	M6	60 in.-lbs. (6.8 N-m)
12MQ2100	8.4 (213)	6.8 (173)	11.8 (300)	71 (32.2)	M6	60 in.-lbs. (6.8 N-m)
12MQ2400	8.4 (213)	6.8 (173)	13.3 (338)	80 (36.3)	M6	60 in.-lbs. (6.8 N-m)
12MQ3000	10.7 (272)	6.8 (173)	13.3 (338)	103 (46.7)	M6	60 in.-lbs. (6.8 N-m)
12MQ3300	10.7 (272)	6.8 (173)	13.3 (338)	106 (48.1)	M6	60 in.-lbs. (6.8 N-m)

\* includes terminal

\*\* +/- 5%

## 12MQ Battery Series

### Discharge Specifications

Partial data

Constant Power Discharge (Watts / Cell) to 1.67 VPC@77° F (25° C)

Model	Standby Time (minutes)						
	5	10	15	20	30	45	60
12MQ1200	408	273	204	164	119	85	67
12MQ1800	561	373	284	228	177	128	102
12MQ2100	637	435	336	276	206	150	119
12MQ2400	722	498	381	312	231	169	134
12MQ3000	872	653	506	412	301	218	173
12MQ3300	929	691	540	444	326	236	186

Constant Power Discharge (Watts / Cell) to 1.75 VPC@77° F (25° C)

Model	Standby Time (minutes)						
	5	10	15	20	30	45	60
12MQ1200	363	257	197	160	117	85	67
12MQ1800	499	343	265	215	168	123	98
12MQ2100	569	400	314	260	196	144	115
12MQ2400	643	458	356	295	220	162	130
12MQ3000	772	597	479	398	298	218	173
12MQ3300	826	634	511	424	317	233	185

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