

MQ Battery Series



Valve-Regulated Lead-Acid Batteries for UPS Standby Power Applications

- 12MQ600
- 12MQ800
- 12MQ1200
- 12MQ1800
- 12MQ2100
- 12MQ2400
- 12MQ3000
- 12MQ3300

- UL listing – File No. MH 18830.
- Manufactured to Interstate PowerCare standards in ISO 9001 registered production facilities worldwide.
- 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.
- Interstate PowerCare MQ 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: Interstate PowerCare MQ batteries can be safely recharged at high current rates.
- Storage time: Interstate PowerCare MQ 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.
- Interstate PowerCare MQ batteries are designed to be installed on their base. Consult Interstate PowerCare before installing in any other orientation.

GENERAL SPECIFICATIONS

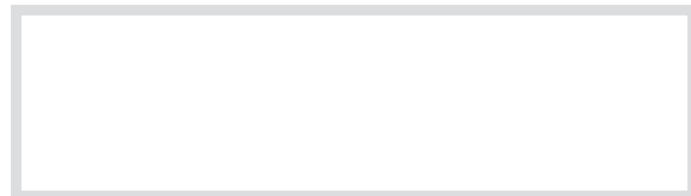
Type	Nominal Voltage	Nominal Ah 8 hr. rate to 1.75 VPC @77 °F (25 °C)	Watts/Cell 15 min. rate to 1.67 VPC @77 °F (25 °C)	Short Circuit Current	Max discharge current (A-2 min. rate)	Internal Resistance mΩ	Weight lbs. and (Kg)
12MQ600	12	21	100	1500	171	7.1	22 (10.0)
12MQ800	12	28	135	1800	238	5.6	26 (11.8)
12MQ1200	12	44	204	2775	439	4.5	43 (19.5)
12MQ1800	12	70	284	3175	503	3.9	60 (27.2)
12MQ2100	12	82	336	3700	586	3.4	71 (32.2)
12MQ2400	12	94	381	4225	670	3	80 (36.3)
12MQ3000	12	119	506	4510	913	2.8	103 (46.7)
12MQ3300	12	123	540	4775	961	2.6	106 (48.1)

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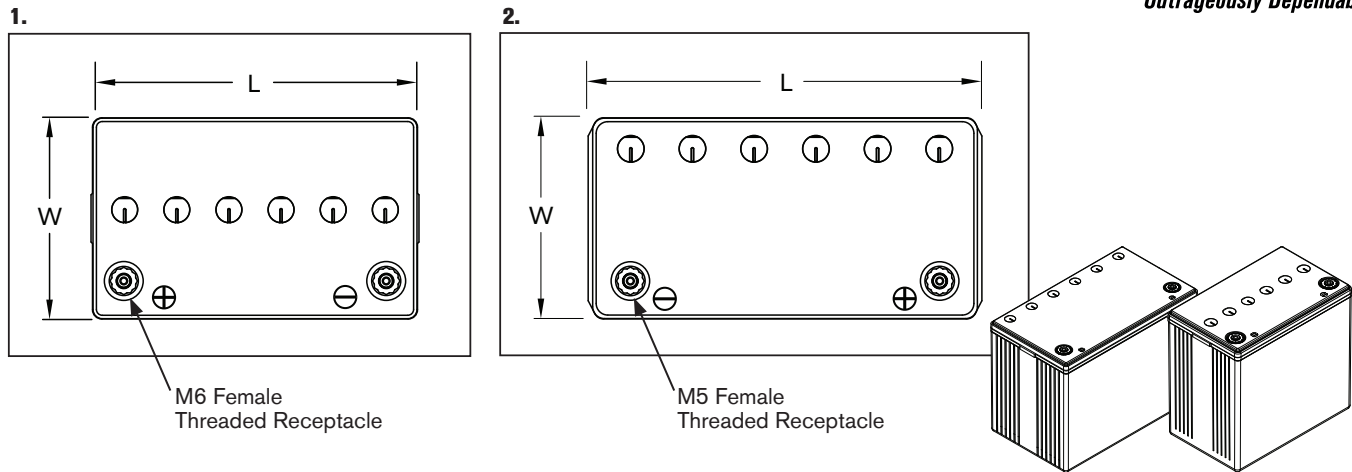
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Outrageously Dependable®



* All dimensions are for reference only. Contact an Interstate representative for complete dimensional information.

Type	Nominal Voltage	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)	Overall Height in. (mm)*	Width in. (mm)	Length in. (mm)	Weight lb. (mg.)	Short Circuit Current	Max discharge current (A-2 min. rate)	Internal Resistance mΩ	Layout	Terminals	Torque**
12MQ600	12	21	100	6.9 (175)	4.9 (125)	6.5 (166)	22 (10.0)	1500	171	7.1	2	M5	31 in.-lbs. (3.5 N-m)
12MQ800	12	28	135	6.7 (169)	5.1 (130)	7.8 (198)	26 (11.8)	1800	238	5.6	2	M6	44 in.-lbs. (5 N-m)
12MQ1200	12	44	204	8.1 (206)	5.5 (140)	8.9 (226)	43 (19.5)	2775	439	4.5	1	M6	60 in.-lbs. (6.8 N-m)
12MQ1800	12	70	284	8.2 (208)	6.8 (173)	10.2 (259)	60 (27.2)	3175	503	3.9	1	M6	60 in.-lbs. (6.8 N-m)
12MQ2100	12	82	336	8.4 (213)	6.8 (173)	11.8 (300)	71 (32.2)	3700	586	3.4	1	M6	60 in.-lbs. (6.8 N-m)
12MQ2400	12	94	381	8.3 (211)	6.8 (173)	13.3 (338)	80 (36.3)	4225	670	3	1	M6	60 in.-lbs. (6.8 N-m)
12MQ3000	12	119	506	10.7 (272)	6.8 (173)	13.3 (338)	103 (46.7)	4510	913	2.8	1	M6	60 in.-lbs. (6.8 N-m)
12MQ3300	12	123	540	10.7 (272)	6.8 (173)	13.3 (338)	106 (48.1)	4775	961	2.6	1	M6	60 in.-lbs. (6.8 N-m)

* Including terminal.

** +/- 5%

Constant Power Discharge (Watts per Cell) to 1.75 VPC at 77 °F (25 °C)

Type	Standby Time (Minutes)						
	5	10	15	20	30	45	60
12MQ600	180	119	91	74	55	40	32
12MQ800	244	161	123	100	74	54	43
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

Constant Power Discharge (Watts per Cell) to 1.65 VPC at 77 °F (25 °C)

Type	Standby Time (Minutes)						
	5	10	15	20	30	45	60
12MQ600	200	129	100	78	57	42	33
12MQ800	270	174	135	106	77	56	44
12MQ1200	417	275	205	163	119	85	67
12MQ1800	572	378	287	230	178	129	102
12MQ2100	650	441	340	279	207	151	120
12MQ2400	739	505	386	315	233	170	135
12MQ3000	896	660	510	412	301	218	173
12MQ3300	953	699	545	445	326	236	186

Constant Power Discharge (Watts per Cell) to 1.70 VPC at 77 °F (25 °C)

Type	Standby Time (Minutes)						
	5	10	15	20	30	45	60
12MQ600	191	125	94	77	56	41	32
12MQ800	258	168	127	103	76	55	44
12MQ1200	393	269	203	163	119	85	67
12MQ1800	540	363	278	224	174	127	101
12MQ2100	613	424	329	270	203	149	118
12MQ2400	695	485	373	306	228	167	133
12MQ3000	835	636	499	410	301	218	173
12MQ3300	891	674	532	438	326	236	186

Constant Power Discharge (Watts per Cell) to 1.63 VPC at 77 °F (25 °C)

Type	Standby Time (Minutes)						
	5	10	15	20	30	45	60
12MQ600	203	130	100	79	57	42	33
12MQ800	274	175	135	106	78	56	44
12MQ1200	423	277	205	163	119	85	67
12MQ1800	580	382	289	231	179	129	103
12MQ2100	661	446	342	280	208	152	120
12MQ2400	752	510	389	316	234	170	135
12MQ3000	919	666	511	412	301	218	173
12MQ3300	976	705	549	446	326	236	186

Constant Power Discharge (Watts per Cell) to 1.67 VPC at 77 °F (25 °C)

Type	Standby Time (Minutes)						
	5	10	15	20	30	45	60
12MQ600	197	127	100	78	57	41	33
12MQ800	265	172	135	105	77	56	44
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 per Cell) to 1.60 VPC at 77 °F (25 °C)

Type	Standby Time (Minutes)						
	5	10	15	20	30	45	60
12MQ600	206	131	100	79	58	42	33
12MQ800	278	177	135	107	78	57	45
12MQ1200	432	279	205	163	119	85	67
12MQ1800	592	387	292	233	180	130	103
12MQ2100	678	453	346	283	209	152	121
12MQ2400	771	518	393	319	235	171	135
12MQ3000	950	674	511	412	301	218	173
12MQ3300	1007	714	550	446	326	236	186

Notes: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.