

MQ1800



MARQUIS SERIES

MQ1800
VALVE-REGULATED
LEAD-ACID BATTERY
FOR UPS STANDBY
POWER APPLICATIONS
12V 76 AH @ 20-HR RATE
12V 300 WATTS/CELL
@ 15-MINUTE RATE

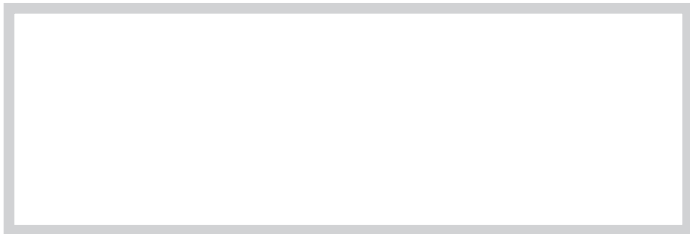
FEATURES

- Flame-arresting, one-way pressure-relief valve for safety and long life.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Advanced grid design optimized for high-power density.
- Computer-designed lead, low-calcium alloy grid for minimal gassing and ease of recycling.
- Multicell design for economy of installation and maintenance.
- Can be mounted in any orientation. Upright, side or end mounting recommended.
- Not restricted for air transport — complies with IATA/ICAO Special Provision A67.
- Not restricted for surface transport — classified as nonhazardous material as related to DOT-CFR Title 49 parts 171-189.
- UL-recognized component.
- Case and cover: flame-retardant compliant with UL 1778; oxygen index greater than 25%.
- Manufactured in ISO9001-certified facility.
- Made in North America.
- Fully recyclable: Call 888-813-5049 to coordinate EPA-approved recycling.

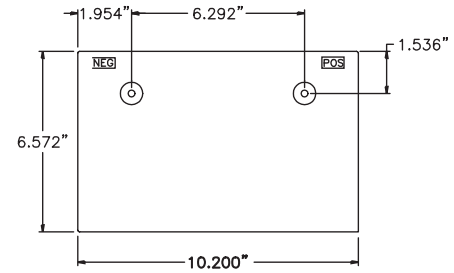
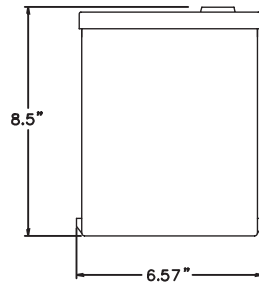
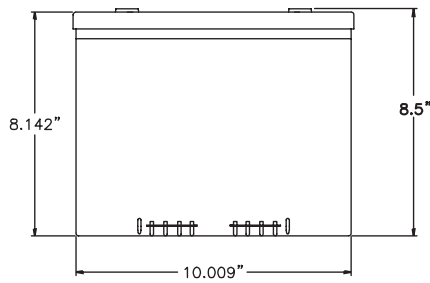


BATTERY TYPE	NOMINAL VOLTAGE (V)	POWER PER CELL (W) 15 Min to 1.67 Vpc at 77°F	CAPACITY Ah 20 hrs to 1.75 Vpc at 77°F	WEIGHT lbs./(kg)	DIMENSIONS in/(mm)			COPPER INSERT TERMINALS
					LENGTH	WIDTH	HEIGHT	
MQ1800	12	300	76	58.0/(26.3)	10.20/(259)	6.57/(167)	8.50/(216)	1/4"-20 UNC

Interstate PowerCare
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MQ1800



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

MQ1800 Specifications						
Cells per Unit	Full Charge OCV	Weight	Electrolyte	Max. Discharge Current (5 sec.)	Short Circuit Current	Battery Impedance at 77°F/25°C
6	12.84	58.0 lbs. 26.3 kg.	Absorbed H ₂ SO ₄ 1.300 Specific Gravity	500 Amps	3209 Amps @ 0.1 sec.	4.30 mOhms

DISCHARGE SPECIFICATIONS

Constant Power Ratings, Watts per Cell at 77°F (25°C) – in Minutes												
Final (VPC)	5	10	15	20	30	60	90	120	240	360	480	720
1.67	508	382	300	244	179	105	-	-	-	-	-	-
1.75	452	341	272	227	170	94	76	61	35	25	20	14
1.80	424	319	257	219	168	93	68	55	32	23	18	12

Capacity	300 watts per cell at the 15-minute rate to 1.67 volts per cell at 77°F (25°C) 75.8 Ah @ 20-hour rate to 1.75 volts per cell at 77°F (25°C)
Operating Temperature Range	Discharge: -40°F (-40°C) to +160°F (71°C), Charge: -10°F (-23°C) to +140°F (60°C) (with temperature compensation)
Temperature Compensation	Apply for temperature range 32°F/0°C to 104°F/40°C. Subtract 1.7mV/°F/cell or 3mV/°C/cell above 77°F/25°C. Add 1.7mV/°F/cell or 3mV/°C/cell below 77°F/25°C.
Nominal Operating Temperature Range	+74°F (23°C) to +80°F (27°C)
Float Charging Voltage	2.27 to 2.30 VDC/cell, average at 77°F (25°C)
Recommended Maximum Charging Current Limit	C/4 Amps @ 20 hr. rate to 1.75 VPC @ 77°F (19.0 A)
AC Ripple From Charging Source	1.5% peak to peak of float charge voltage maximum
Self-Discharge	Interstate's UPS batteries may be stored for up to 6 months at 77°F (25°C), and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Accessories	Inter-unit connectors, racks and cabinet systems are available.
Terminal	Threaded copper alloy insert terminal, 1/4"-20 UNC bolt
Terminal Hardware Initial Torque	120 in.-lbs. (13.6 Nm)
Annual Re-torque Value	115 in.-lbs. (13.0 Nm)

Constant Current Ratings, Amperes at 77°F (25°C) – in Hours											
Final (VPC)	1	2	3	4	5	6	8	10	12	20	24
1.75	47.6	27.7	20.1	15.8	13.0	11.1	8.58	7.0	5.98	3.79	3.22
1.80	46.9	27.5	19.9	15.5	12.8	10.9	8.48	6.96	5.92	3.76	3.18
1.85	45.1	26.6	19.2	15.0	12.4	10.6	8.2	6.73	5.72	3.63	3.07
1.90	41.5	24.9	18.1	14.2	11.7	9.94	7.66	6.21	5.23	3.33	2.84

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