



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

12MQ350

**High Rate Discharge
 Five Year Full Warranty Battery**



Specifications		
Rated Voltage		12V
Nominal Rate (W ₁₅ ,1.67V/cell)		370.3 W/cell
Nominal Capacity(C ₈ ,1.75V/cell)		89.6 Ah
Dimension	Length	12.0 inches (305 mm)
	Width	6.61 inches (168 mm)
	Container Height	8.15 inches (207 mm)
	Total Height	8.27 inches (210 mm)
Approx. Weight		61.7 lbs (28.0 Kg)
Terminal		M6
Container Material		Flame Retardant ABS to UL94-V0
Rated Capacity (25° C)	90.7 Ah	(10 hr, 9.07A,1.80V/cell)
	89.6 Ah	(8 hr, 11.2A,1.75V/cell)
	77.1 Ah	(3 hr, 25.7A,1.75V/cell)
	65.3 Ah	(1 hr, 65.3A,1.67V/cell)
Max. Discharge Current		1425A
Internal Resistance (25° C)		Approx. 4.0mo
Operating Temp.Range	Discharge	-15 ~ 50°C (5 ~ 122°F)
	Charge	0 ~ 40°C (32 ~ 104°F)
	Storage	-15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temp. Range		77±5° F (25±3°C)
Max.Charging Current (25°C)		28.5 Amps
Charge Voltage (25°C)	Float	13.5V
	Temp. Coefficient	-3mV/cell/°C
	Equalization	14.1 ~ 14.4V
Effect of temp. on capacity	40° C (104° F)	103%
	25° C (77° F)	100%
	0° C (32° F)	86%
Self Discharge		≤3%/month @ 25°C

- Specially designed grids to optimize power density
- Oversized partition intercell welds, providing low resistance connections & minimal power loss
- Advanced lead tin calcium alloy, reduces grid corrosion & promotes longer battery life
- Enhanced performance at high rates of discharge & recharge
- High integrity post seal for long life

Compliance with IEC 68096 standards, CE UL Certified, Manufactured in OHSAS 18001,ISO 9001 and ISO 14001 certified production facilities

Constant Power Discharge (Watts/cell) at 25 ° C (77° F)

F.V/Time	5 Min	10 Min	15 Min	20 Min	30 Min	45 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr
1.85V/cell	408.1	334.7	286.3	243.4	188.8	139.6	113.2	67.8	49.2	38.8	32.2	27.7
1.80V/cell	452.1	369.2	308.6	260.6	198.3	145.4	117.7	69.9	50.4	39.8	33.1	28.3
1.75V/cell	499.6	401.3	330.8	276.0	206.7	150.7	121.6	71.1	51.3	40.3	33.5	28.9
1.70V/cell	547.6	430.4	348.0	290.7	214.9	155.8	124.3	72.1	52.0	41.1	34.1	29.2
1.67V/cell	600.7	457.2	370.3	304.6	223.9	160.4	127.2	73.1	52.7	41.6	34.4	29.6
1.60V/cell	644.5	482.0	385.7	315.2	229.1	164.4	130.2	74.5	53.2	42.0	34.9	29.9

Constant Current Discharge (Amperes) at 25 ° C (77° F)

F.V/Time	5 Min	10 Min	15 Min	20 Min	30 Min	45 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr
1.85V/cell	209.8	171.1	145.5	123.1	95.0	69.9	56.5	33.7	24.4	19.1	15.8	13.6
1.80V/cell	234.8	190.7	158.5	133.1	100.7	73.4	59.2	35.0	25.1	19.8	16.3	14.0
1.75V/cell	262.2	209.2	171.4	142.2	105.8	76.7	61.6	35.8	25.7	20.1	16.7	14.3
1.70V/cell	290.7	226.9	182.4	151.3	111.2	80.1	63.5	36.6	26.2	20.6	17.1	14.6
1.67V/cell	321.5	242.8	195.3	159.6	116.5	82.8	65.3	37.3	26.7	21.0	17.3	14.9
1.60V/cell	348.8	258.8	205.6	166.7	120.4	85.8	67.5	38.3	27.2	21.4	17.7	15.2

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