MAGNIZON
GREEN ENERGY

Magnizon Power Systems FZE

MC12-200 [12V 200AH/10HR]

Deep Cycle AGM Battery for Solar Application

Applications

- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS- for Telecom)
- Solar/Photovoltaic /Wind Energy

ISO 9001 | ISO 14001 | OHSAS 18001 | TLC | CE | RoHS | PV Battery

Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@10hr-rate to 1.80V per cell @25℃
Dimension	Length 522 ± 2mm (20.6 inches) Width 240 ± 2mm (9.45 inches) Container Height 219 ± 2mm (8.62 inches) Total Height 224 ± 2mm (8.82 inches)
Internal Resistance	Approx. 60.0 Kg (Tolerance±2%)
Internal Resistance	Approx. 4 mΩ
Terminal	F10(M8)/F16(M8)
Max. Discharge Current	2000A (5 sec)
Design Life	12 years (floating charge)
Maximum Charging Current	60.0 A
Reference Capacity	C3 154.9AH C5 176.0AH C10 200.0AH C20 210.5AH
Float Charging Voltage	13.6 V~13.8 V @ 25℃ Temperature Compensation: -3mV/℃/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25℃ Temperature Compensation: -4mV/℃/Cell
Operating Temperature Range	Discharge: -20℃~50℃ Charge: 0℃~40℃ Storage: -20℃~60℃
Normal Operating Temperature Range	25℃±5℃
Self Discharge	MC Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	\	417.6	329.1	266.6	190.8	139.4	119.8	74.0	55.1	44.1	37.1	32.5	25.3	21.3	10.9
1.65V	\	403.7	319.3	259.7	186.8	136.6	117.5	72.7	54.3	43.4	36.7	32.2	25.1	21.1	10.8
1.70V	\	385.5	306.3	250.6	181.5	132.9	114.5	71.0	53.2	42.6	36.1	31.7	24.7	20.9	10.7
1.75V	\	361.2	289.0	238.4	174.3	127.9	110.4	68.8	51.6	41.5	35.2	30.9	24.2	20.5	10.5
1.80V	\	328.7	265.6	221.9	164.4	121.0	104.8	65.6	49.5	40.0	34.0	30.0	23.4	20.0	10.3
1.85V	\	284.3	233.3	198.8	150.4	111.2	96.8	61.1	46.4	37.8	32.3	28.5	22.4	19.3	9.89

Constant Power Discharge (Watts) at 25 ℃ (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	\	710	575	474.4	347	256.7	224	140	105	84.6	71.6	63.2	49.5	42.0	21.5
1.65V	\	704	570	470.6	344	254.8	222	139	104	83.8	71.0	62.7	49.1	41.7	21.4
1.70V	\	680	552	457.6	336	249.0	217	136	102	82.5	70.0	61.8	48.4	41.2	21.1
1.75V	\	649	528	440.8	326	241.5	210	132	99.9	80.6	68.6	60.6	47.5	40.5	20.8
1.80V	\	601	492	415.2	311	230.2	201	127	96.1	77.9	66.5	58.8	46.2	39.6	20.3
1.85V	\	529	438	376.6	287	213.4	187	119	90.6	73.8	63.4	56.2	44.2	38.2	19.6

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.

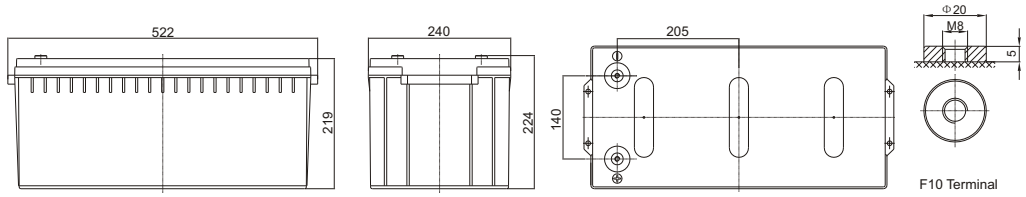
MAGNIZON
GREEN ENERGY

Magnizon Power Systems FZE

MC12-200 [12V 200AH/10HR]

Deep Cycle AGM Battery for Solar Application

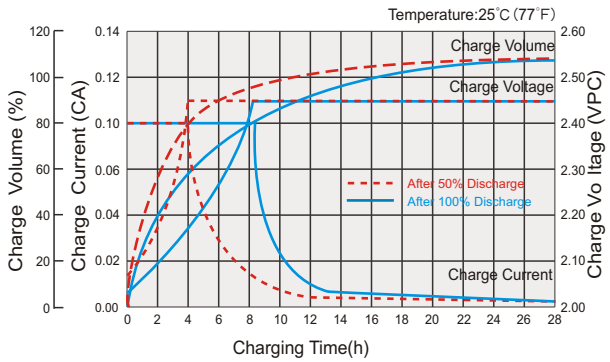
Dimensions



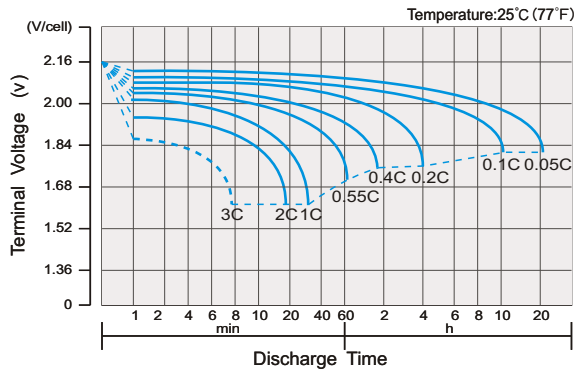
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

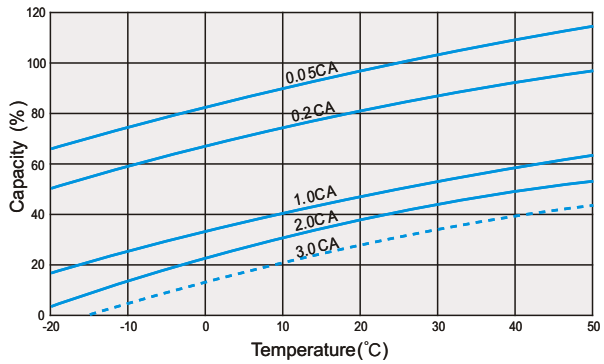
Float Charging Characteristics



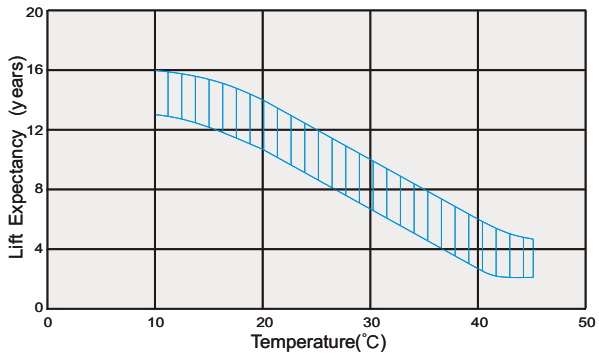
Discharge Characteristics



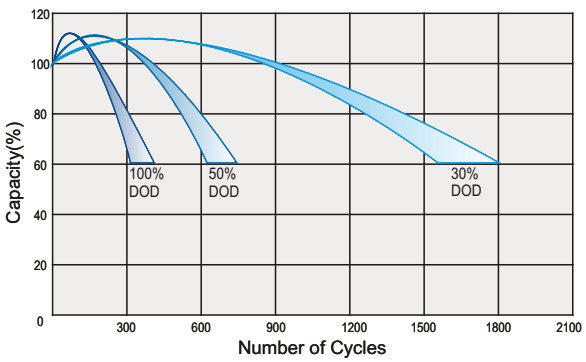
Temperature Effects in Relation to Battery Capacity



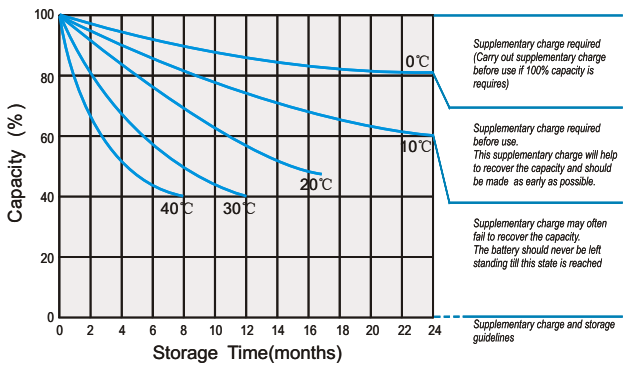
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Magnizon MC BATTERIES