MYCAM

MC12080 12V 80AH

AGM GP SERIES - VRLA BATTERY

Applications

- Telecommunications
- Solar system
- Wind power system
- Engine starting
- Wheelchair
- Floor cleaning machines
- Golf trolley
- Boats

ISO 9001 | ISO 14001 | OHSAS 18001 | TLC

CE | RoHS

Specification

Nomial Voltage	12V
Nomial Capacity(10HR)	80.0AH
Dimension	Length 330±3mm (12.99 inches) Width 173±2mm (6.81 inches) Container Height 212±2mm (8.35 inches) Total Height (with Terminal) 220±2mm (8.66 inches)
Approx Weight	Approx 22.0 Kg (48.5 lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	83.8 AH/4.19A (20hr ,1.80V/cell,25℃/77℉) 80.0 AH/8.00A (10hr,1.80V/cell,25℃/77℉) 67.0 A H/13.4A (5hr,1.75V/cell,25℃/77℉) 58.7 AH/19.5A (3hr,1.75V/cell,25℃/77℉) 46.1 AH/46.1A (1hr,1.60V/cell,25℃/77℉)
Max. Discharge Current	800A (5s)
Internal Resistance	Approx 6.8 mΩ
Operating Temp.Range	Discharge : -15～50℃ (5～122℉) Charge : 0～40℃ (32～104℉) Storage : -15～40℃ (5～104℉)
Nominal Operating Temp. Range	25±3℃ (77±5℉)
Cycle Use	Initial Charging Current less than 20.0 A.Voltage 14.4V~15.0V at 25℃(77℉)Temp. Coefficient -30mV/℃
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25℃(77℉)Temp. Coefficient -20mV/℃
Capacity affected by Temperature	40℃ (104℉) 103% 25℃ (77℉) 100% 0℃ (32℉) 86%
Design LifeSpan	10 years
Self Discharge	GP series batterys may be stored for up to 9 months at 25℃(77℉) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Constant Current Discharge (Amperes) at 25 ℃ (77℉)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	71.9	56.4	43.1	36.0	22.9	17.4	14.4	12.5	10.8	9.52	8.59	7.85	7.42	4.08
1.80V/cell	82.4	63.1	47.5	39.8	24.7	18.7	15.3	13.1	11.3	10.0	9.00	8.25	7.75	4.25
1.75V/cell	92.6	69.4	51.3	42.6	26.2	19.7	16.0	13.6	11.7	10.3	9.29	8.50	7.91	4.34
1.70V/cell	99.7	74.3	54.5	45.1	27.8	20.5	16.6	14.0	12.1	10.7	9.56	8.73	8.09	4.39
1.67V/cell	103.8	77.2	56.4	46.8	28.5	21.2	17.0	14.3	12.3	10.8	9.71	8.84	8.19	4.43
1.60V/cell	112.5	82.6	60.6	49.6	29.7	22.0	17.6	14.8	12.6	11.1	9.88	9.03	8.35	4.50

Constant Power Discharge (Watts) at 25 ℃ (77℉)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	137.6	108.8	83.5	70.2	44.7	34.1	28.4	24.6	21.3	18.9	17.1	15.6	14.8	8.14
1.80V/cell	155.6	120.4	91.4	77.1	48.1	36.4	30.0	25.7	22.3	19.7	17.9	16.4	15.4	8.47
1.75V/cell	172.9	131.2	98.1	82.1	50.8	38.4	31.3	26.7	23.0	20.4	18.4	16.9	15.7	8.63
1.70V/cell	184.3	139.3	103.4	86.3	53.6	39.9	32.2	27.4	23.8	21.0	18.9	17.3	16.1	8.73
1.67V/cell	189.6	143.2	106.3	89.1	54.8	41.0	32.9	27.9	24.1	21.3	19.2	17.5	16.2	8.81
1.60V/cell	203.2	151.9	113.4	94.1	56.7	42.4	34.1	28.7	24.6	21.7	19.4	17.8	16.5	8.92

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

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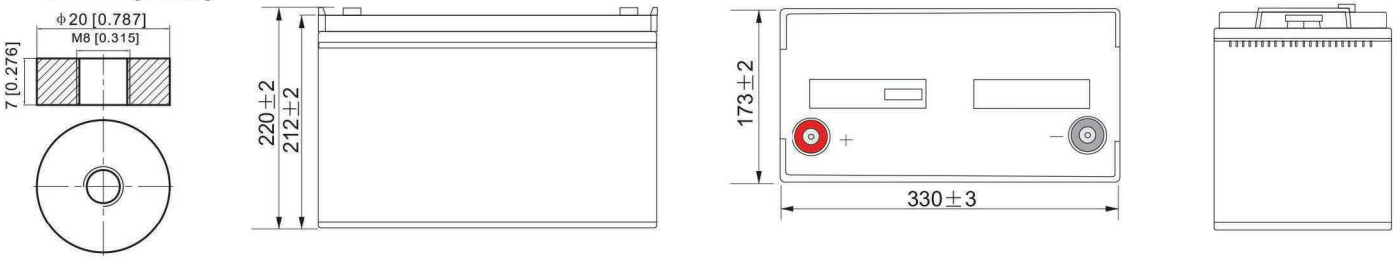
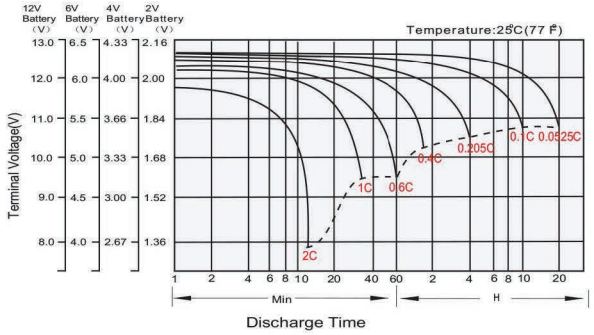
Dimensions

■ T11 Terminal

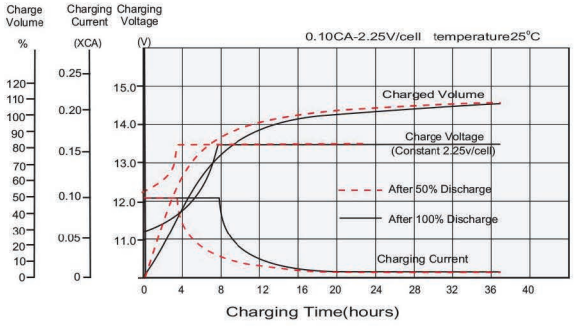
Unit: mm [inches]



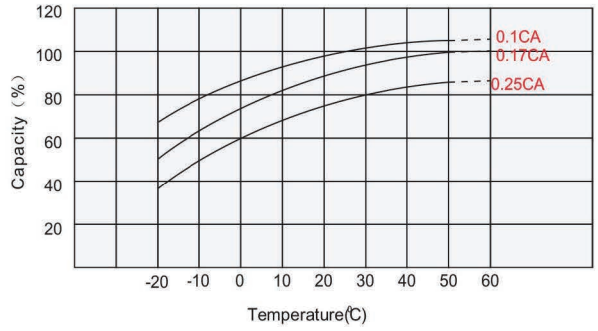
Discharge Characteristics



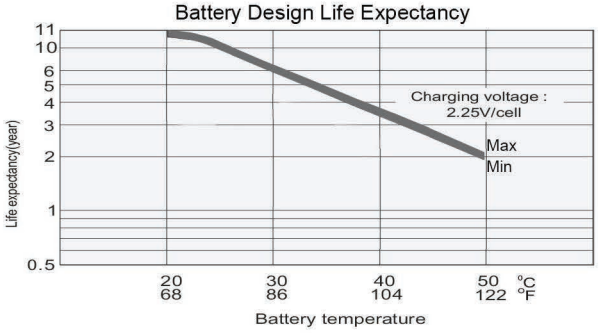
Float Charging Characteristics



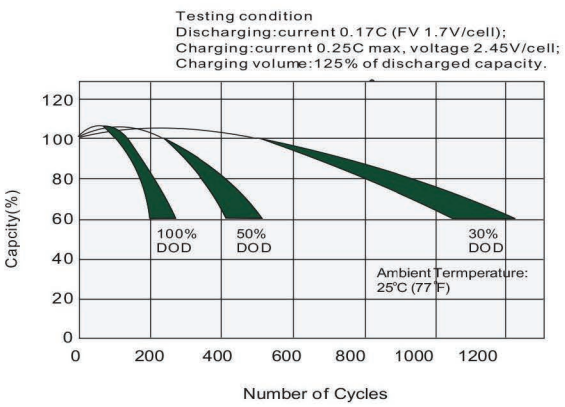
Temperature Effects in Relation to Battery Capacity



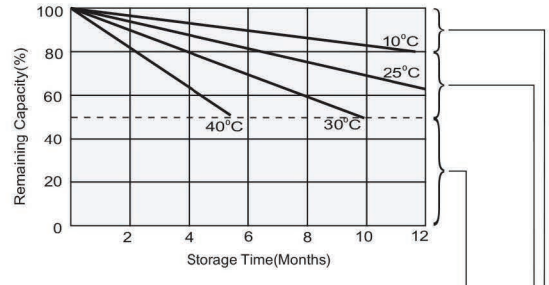
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Supplem entary c harge m ay often fail to r ecover the cap acity.
The bat tery sho uld nev er be left standin g till thi s is rea ched.

Supplem entary c harge re quired b efore us e.Optio nal cha rging w ay as below:
1.Charg ed for a bove 3 days at limted current 0.25CA and co nstant v olatge 2 .25V/cell.
2.Charg ed for a bove 20 hours a t limted current 0.25CA and co nstant v olatge 2 .45V/cell.
3.Charg ed for 8~10hou rs at lim ted curr ent 0.05CA .

No sup plemen tary cha rge req uired
(Carry o ut supp lementa ry charg e before use if 100% capacity isrequired.)