

## Specification

<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	100Ah@20hr-rate to 1.75V per cell @25°C
<b>Weight</b>	Approx. 30.0 Kg (Tolerance ±2%)
<b>Internal Resistance</b>	Approx. 5 mΩ
<b>Terminal</b>	F12(M8)/F5(M8)
<b>Max. Discharge Current</b>	1000A (5 sec)
<b>Design Life</b>	12 years (floating charge)
<b>Maximum Charging Current</b>	30.0 A
<b>Reference Capacity</b>	C3 74.4AH C5 83.5AH C10 95.0AH C20 100.0AH
<b>Float Charging Voltage</b>	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
<b>Cycle Use Voltage</b>	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
<b>Operating Temperature Range</b>	Discharge: -20°C~60°C Charge: 0°C~50°C Storage: -20°C~60°C
<b>Normal Operating Temperature Range</b>	25°C ±5°C
<b>Self Discharge</b>	Deltec Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25 °C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25 °C. Please charged batteries before using.
<b>Container Material</b>	A.B.S. UL94-HB, UL94-V0 Optional.

## BR-12V100 AGM



Deep Cycle batteries provide superior high integrity and reliability. It is specially designed for frequent cyclic charge and discharge. By using strong grids, thick plate and specially active material are designed for repeated deep-discharge applications. The deep cycle batteries offer 30% more cyclic life than the standby. It is suitable for solar and wind renewable energy storage, mobility and medical equipment, TV, telecom, broadband and cable TV, UPS systems etc.



ISO 9001

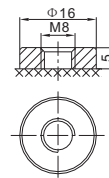
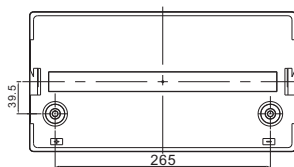
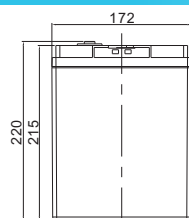
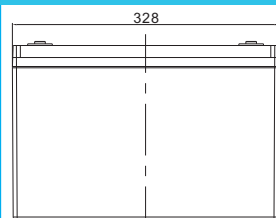
ISO 14001

OHSAS 18001

MH 28539

G4M20206-0910-E-16

## Dimensions



F12 Terminal

Length	328±2mm (12.9 inches)
Width	172±2mm (6.77 inches)
Height	215±2mm (8.46 inches)
Total Height	220±2mm (8.66 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

Unit: mm

### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	225.4	173.7	100.7	59.3	35.5	26.5	20.9	17.6	12.0	10.2	5.20
1.65V	217.9	168.5	98.6	58.2	34.9	26.1	20.6	17.4	11.9	10.1	5.15
1.70V	208.1	161.7	95.8	56.7	34.1	25.5	20.3	17.1	11.7	10.0	5.09
1.75V	195.0	152.5	92.0	54.6	33.0	24.8	19.7	16.7	11.5	9.77	5.00
1.80V	177.4	140.2	86.8	51.9	31.5	23.8	19.0	16.2	11.1	9.50	4.88
1.85V	153.5	123.1	79.4	47.9	29.3	22.3	17.9	15.4	10.6	9.12	4.70

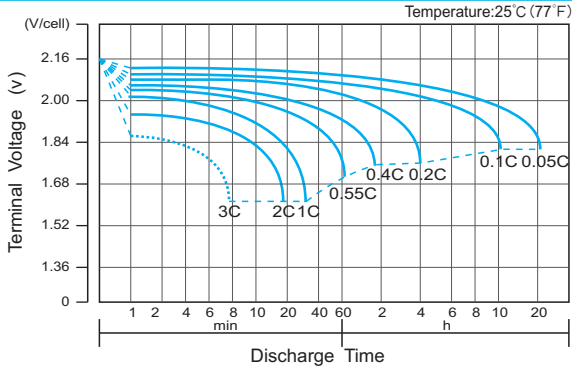
### Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	403	320	193	117	70.8	53.2	42.3	35.8	24.7	21.1	10.8
1.65V	400	317	191	116	70.1	52.7	41.9	35.5	24.5	20.9	10.7
1.70V	386	306	187	113	68.7	51.7	41.2	35.0	24.2	20.7	10.6
1.75V	369	293	181	110	66.8	50.5	40.3	34.3	23.7	20.3	10.4
1.80V	341	273	173	105	64.1	48.6	39.0	33.3	23.1	19.8	10.2
1.85V	300	244	160	97.2	60.0	45.8	36.9	31.7	22.1	19.0	9.80

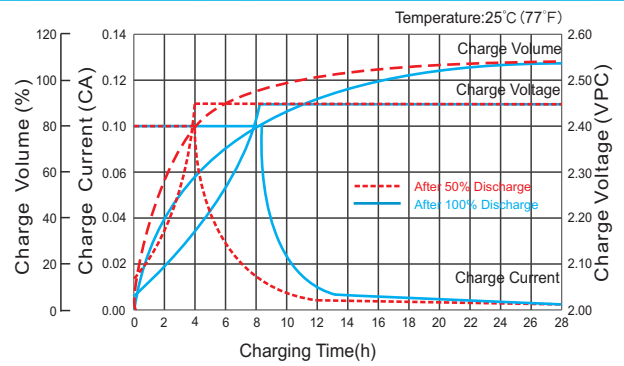
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

# BR-12V100 AGM

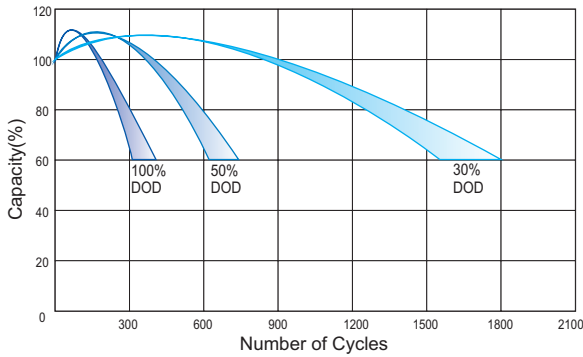
## Discharge Characteristics Curve



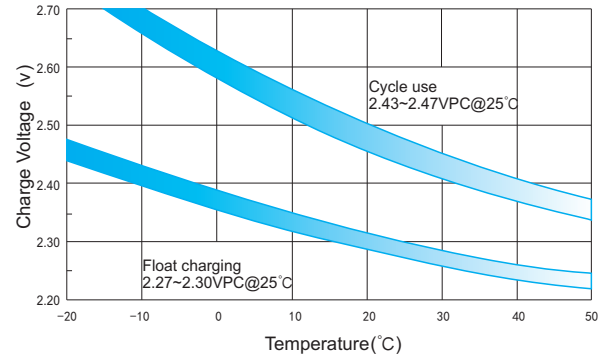
## Charge Characteristic Curve for Cycle Use(IU)



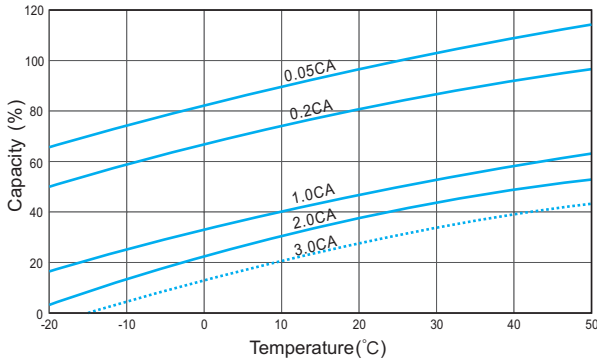
## Cycle Life in Relation to Depth of Discharge



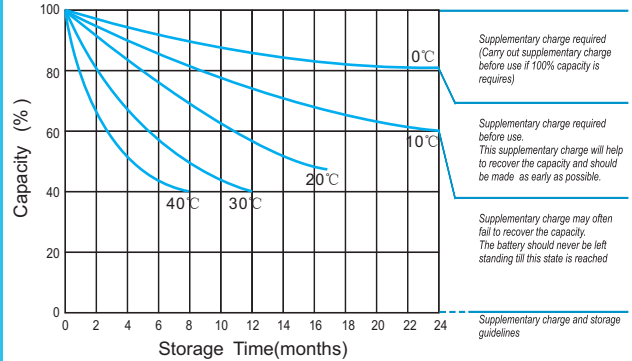
## Relationship Between Charging Voltage and Temperature



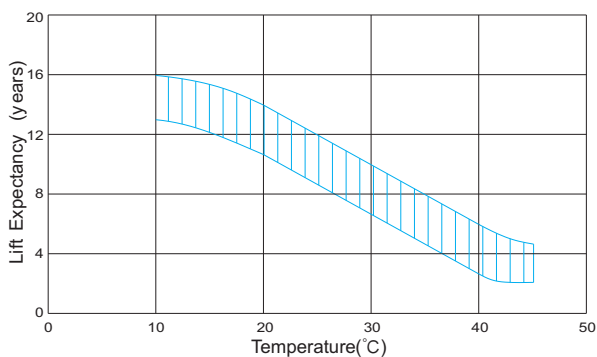
## Temperature Effects on Capacity



## Storage Characteristics



## Effect of Temperature on Long Term Life



## Relationship of OCV And State of Charge(20°C)

