

## 12 V 100 AH AGM Battery

- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use: up to 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

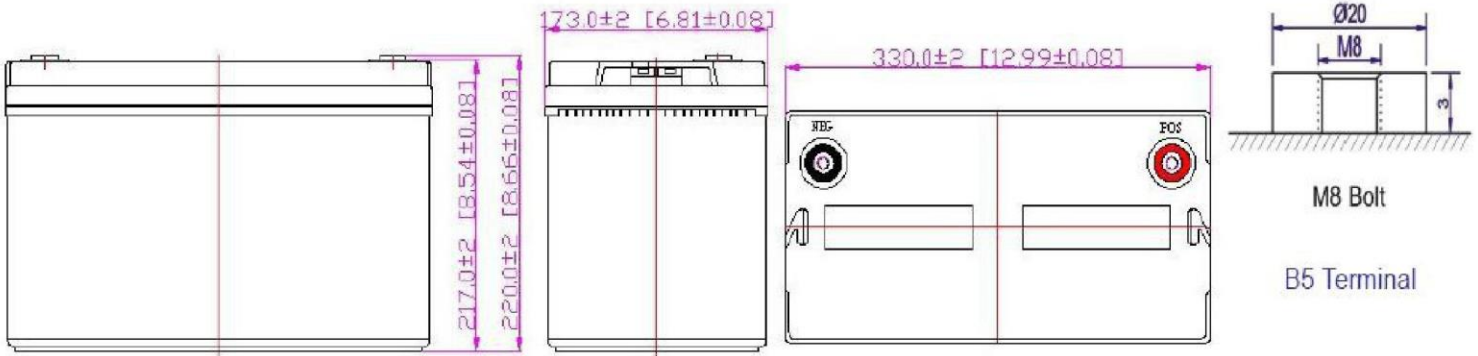


### Application:

- \*Telecommunications
- \*Uninterruptable Power Supply
- \*Electric Power System (EPS)
- \*Emergency backup power supply
- \*Alarm and security system
- \*Communication power supply
- \*DC power supply
- \*Auto control system

### Construction:

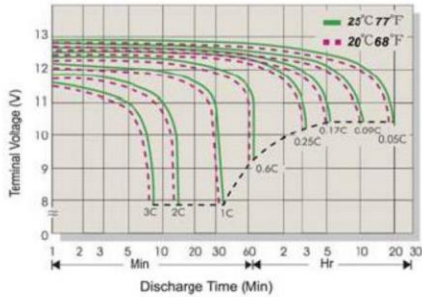
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy
- Safety Valve .....Rubber
- Terminal .....Copper
- Separator .....Fiber glass
- Electrolyte .....Sulfuric acid



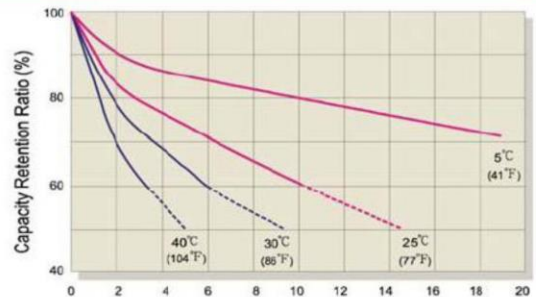
Battery Model	YD 12-100			
Designed Floating Life	Up to 8 years @20-25°C ambient temperature			
Capacity (25°C)	20HR(5.380A,10.8V)	10HR(10.00A,10.8V)	5HR(18.000A,10.5V)	1HR(55.660A,10.5V)
	107.60 AH	100.00 AH	90.00 AH	55.66 AH
Dimensions	Length	Width	Height	Total Height
	330 mm	173 mm	217 mm	220 mm
Approx Weight	29 Kg ± %3			
Internal Resistance	Full charged @25°C, equal or less than 6,8 mOhm			
Self Discharge	%2 capacity declined per month @25°C			
Capacity Affected By Temperature (20 HR)	40°C	25°C	0°C	-15°C
	%102	%100	%85	%65
Charge Voltage (25°C)	Cycle Use		Float Use	
	14.4-14.6 V (-30 m V/°C), max. Current:20.0 A		13.50 - 13.80 V (-20 m V/°C)	

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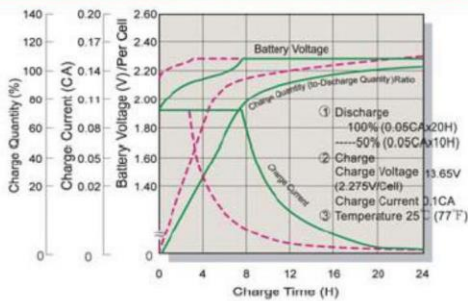
### Terminal Voltage (V) and Discharge Time



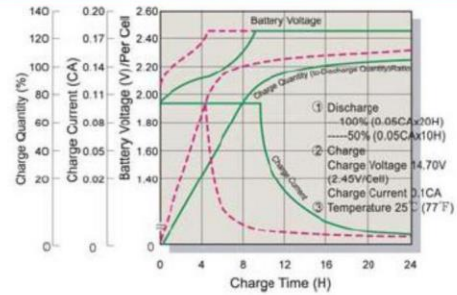
### Capacity Retention Characteristic



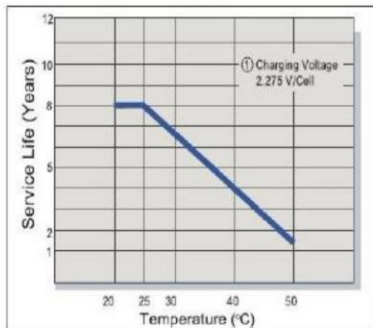
### Battery Voltage and Charge Time for Standby Use



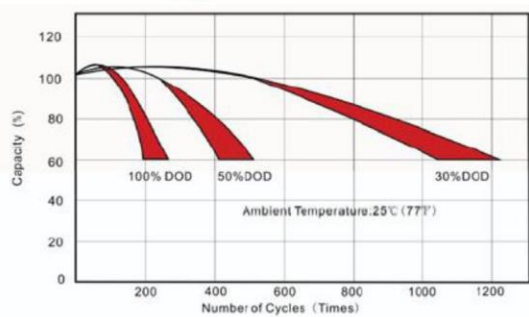
### Battery Voltage and Charge Time for Cycle Use



### Tickle(or Float) Service Life



### Cycle Service Life



### Constant Current Discharge (CC, Unit: A) at 25°C (77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/Cell	318.0	216.3	148.1	90.08	55.19	34.45	26.78	21.06	17.85	11.93	10.00	5.38
1.75V/Cell	320.7	218.2	149.4	90.84	55.66	34.74	27.01	21.24	18.00	12.03	10.15	5.46
1.70V/Cell	328.7	223.6	153.1	93.11	57.05	35.61	27.68	21.77	18.45	12.33	10.30	5.54
1.67V/Cell	336.7	229.1	156.8	95.38	58.44	36.47	28.36	22.30	18.90	12.63	10.45	5.62
1.60V/Cell	351.7	239.3	163.8	99.63	61.05	38.10	29.62	23.30	19.75	13.19	10.60	5.70

### Constant Power Discharge (CP, Unit: W) at 25°C (77°F)

F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/Cell	620.1	421.9	288.8	175.7	107.6	67.17	52.22	41.07	34.81	23.26	19.50	10.48
1.75V/Cell	625.4	425.4	291.3	177.1	108.5	67.74	52.66	41.42	35.11	23.46	19.79	10.64
1.70V/Cell	641.0	436.1	298.6	181.6	111.3	69.43	53.98	42.46	35.99	24.04	20.09	10.80
1.67V/Cell	656.6	446.7	305.9	186.0	114.0	71.12	55.30	43.49	36.86	24.63	20.38	10.96
1.60V/Cell	685.9	466.6	319.5	194.3	119.0	74.29	57.76	45.43	38.51	25.73	20.67	11.11