

12 V 80 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

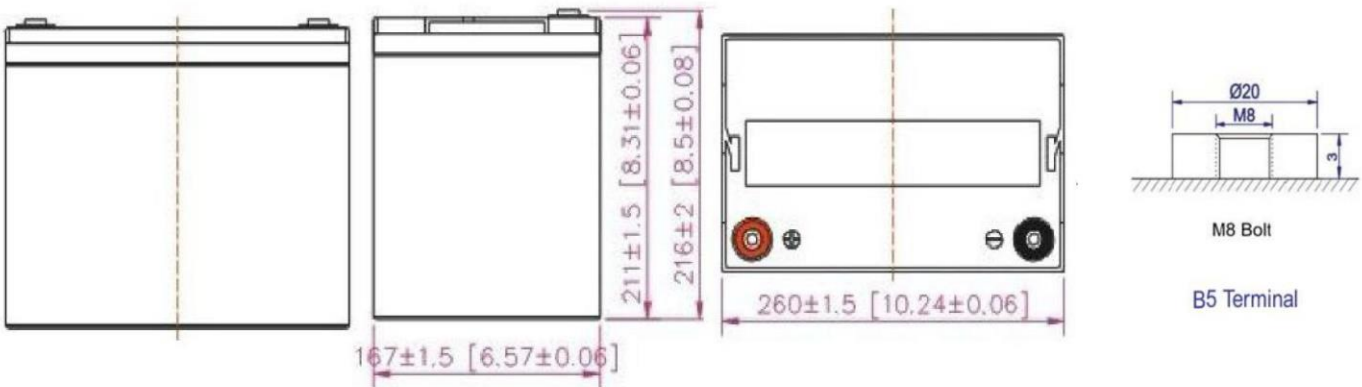


Application:

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

Construction:

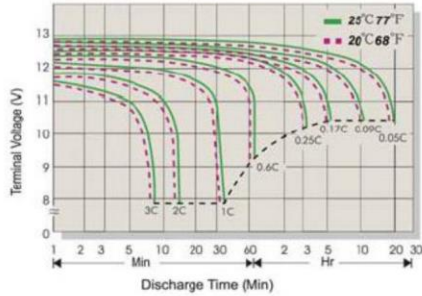
- | | | | |
|-----------------|--------------|--------------------|---------------|
| Component | Raw material | Sealant | Epoxy |
| Positive | Lead dioxide | Safety Valve | Rubber |
| Negative | Lead | Terminal | Copper |
| Container | ABS | Separator | Fiber glass |
| Cover | ABS | Electrolyte | Sulfuric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



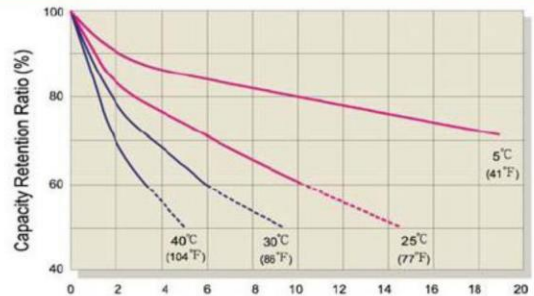
Battery Model	YD 12-80			
Designed Floating Life	Up to 8 years @20-25°C ambient temperature			
Capacity (25°C)	20HR(4.190A,10.8V)	10HR(8.000A,10.8V)	5HR(14.030A,10.5V)	1HR(43.360A,10.5V)
	83.80 AH	80.00 AH	70.15 AH	43.36 AH
Dimensions	Length	Width	Height	Total Height
	260 mm	167 mm	213 mm	216 mm
Approx Weight	24 Kg ± 3%			
Internal Resistance	Full charged @25°C, equal or less than 6 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)	

12 V 80 AH AGM Battery

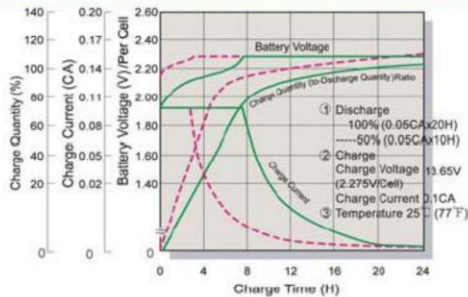
Terminal Voltage (V) and Discharge Time



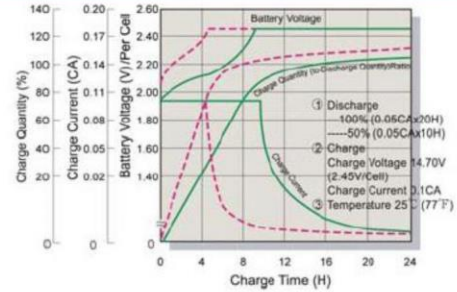
Capacity Retention Characteristic



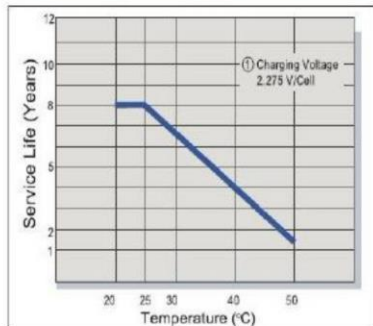
Battery Voltage and Charge Time for Standby Use



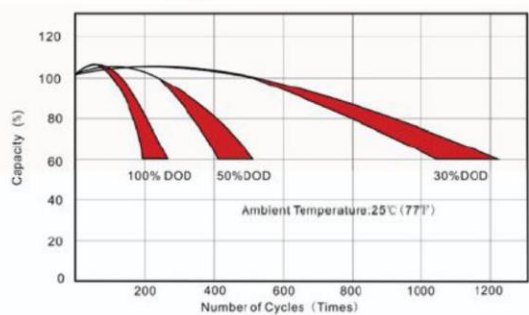
Battery Voltage and Charge Time for Cycle Use



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	232.3	158.0	108.19	65.79	40.31	25.16	19.56	15.38	13.04	8.71	7.50	3.93
1.75V/Cell	234.2	159.3	109.10	66.35	40.65	25.37	19.72	15.51	13.15	8.79	7.61	3.99
1.70V/Cell	240.1	163.3	111.83	68.01	41.67	26.01	20.22	15.90	13.48	9.01	7.73	4.04
1.67V/Cell	245.9	167.3	114.56	69.67	42.69	26.64	20.71	16.29	13.81	9.22	7.84	4.10
1.60V/Cell	256.9	174.8	119.66	72.77	44.59	27.83	21.63	17.01	14.42	9.64	7.95	4.16

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	483.1	328.7	225.0	136.8	83.85	52.33	40.68	32.00	27.12	18.12	15.60	8.17
1.75V/Cell	487.2	331.4	226.9	138.0	84.56	52.77	41.03	32.27	27.35	18.27	15.83	8.29
1.70V/Cell	499.4	339.7	232.6	141.5	86.67	54.09	42.05	33.07	28.04	18.73	16.07	8.41
1.67V/Cell	511.6	348.0	238.3	144.9	88.79	55.41	43.08	33.88	28.72	19.19	16.30	8.54
1.60V/Cell	534.3	363.5	248.9	151.4	92.74	57.88	45.00	35.39	30.00	20.04	16.54	8.66