

- 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

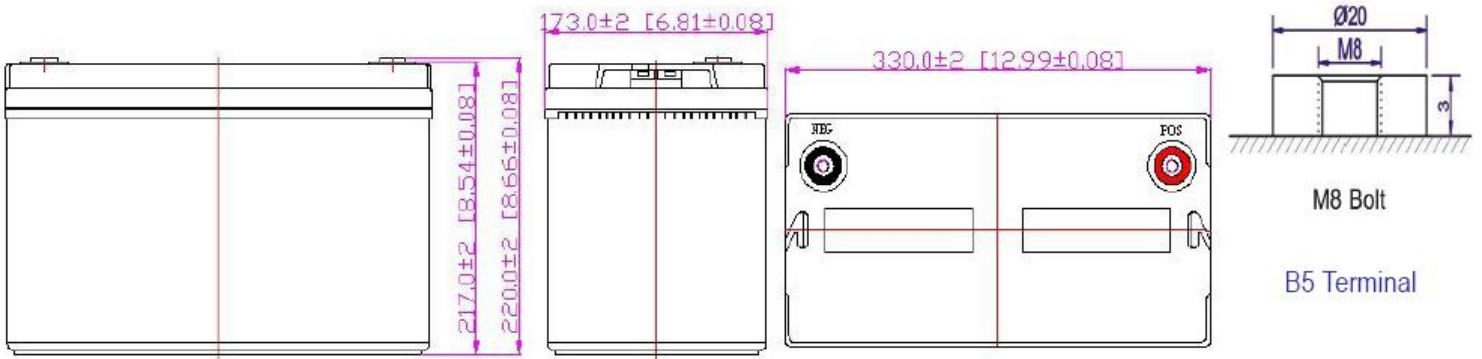


### Application:

- \*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

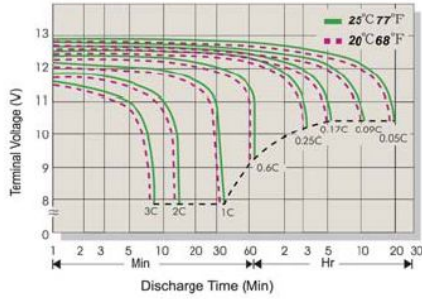
### Construction:

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

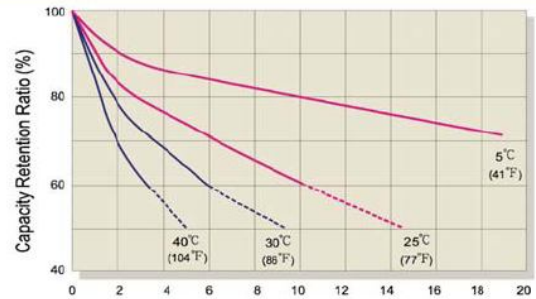


Battery Model	YD 12-100			
Designed Floating Life	Up to 8 years @20-25°C ambient temperature			
Capacity (25°C)	20HR(5.380A,10.8V)	10HR(10.00A,10.8V)	5HR(18.000A,10.5V)	1HR(55.660A,10.5V)
	107.60 AH	100.00 AH	90.00 AH	55.66 AH
Dimensions	Lenght	Width	Height	Total Height
	330 mm	173 mm	217 mm	220 mm
Approx 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
Charger 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)	

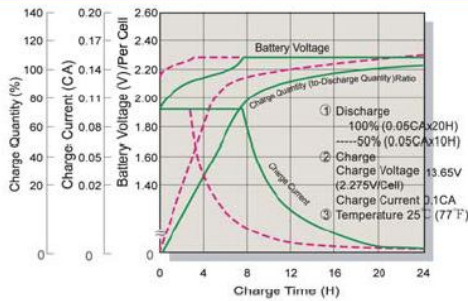
### Terminal Voltage (V) and Discharge Time



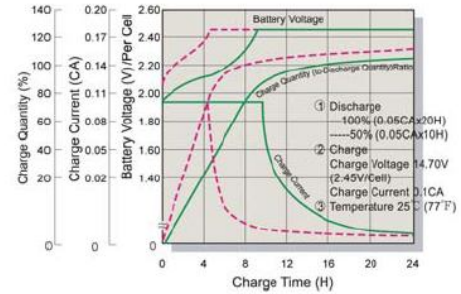
### Capacity Retention Characteristic



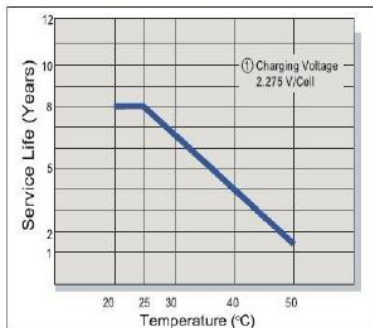
### Battery Voltage and Charge Time for Standby Use



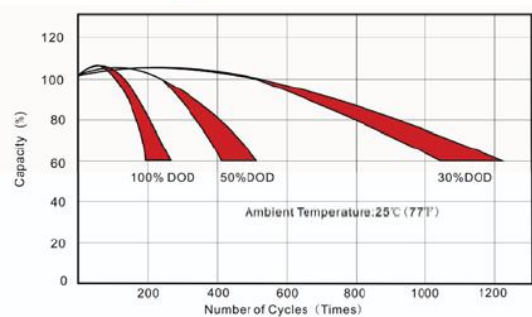
### Battery Voltage and Charge Time for Cycle Use



### 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