



## UNL3500-2 (2V3500Ah/10hr)

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized.

Should the battery be accidentally overcharged producing hydrogen and oxygen, Special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

### Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

### General Feature

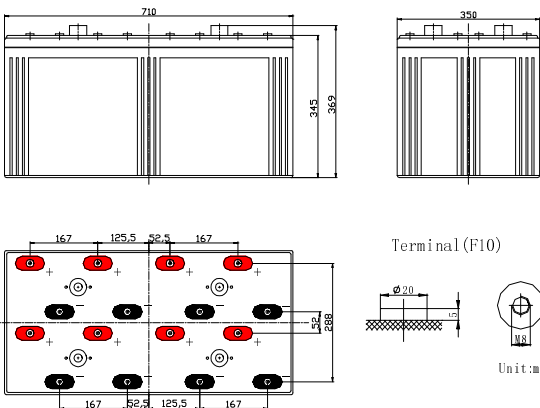
- Absorbent Glass Mat(AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

### Performance Characteristics

Capacity 77°F(25°C)	10 hour rate (350A、1.8V)	3500Ah
	5 hour rate (607A、1.75V)	3035Ah
	3 hour rate (890A、1.70V)	2670Ah
	1 hour rate (2167A、1.60V)	2167Ah
Internal Resistance	Full charged Battery77°F(25°C): 0.10mΩ	
Capacity affected by Temperature (10 hour rate)	104° F(40°C)	102%
	77° F(25°C)	100%
	32° F(10°C)	85%
	5° F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current77°F(25°C): 3500A(5S)		
Charge (Constant Voltage)	Float: 2.25~2.30 V/77° F(25°C)	
	Cycle:2.35~2.45 V/77°F(25°C) Max. Current: 700A	

### SPECIFICATION

- Nominal voltage ..... 2V  
 Number of cell ..... 1  
 Length(mm/inch) ..... 710/27.95  
 Width(mm/inch) ..... 350/13.8  
 Height(mm/inch) ..... 345/13.6  
 Total Height(mm/inch) ..... 382/15.04  
 Approx. Weight(kg/lbs) ..... 205/451.74



Total height with removable cover: 382

#### Discharge Constant Current (Amperes at 77° F25 °C)

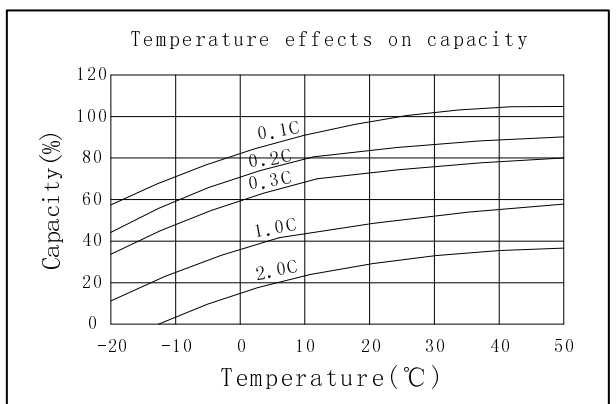
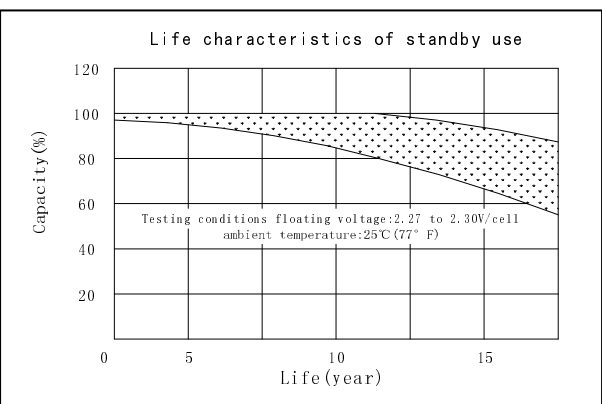
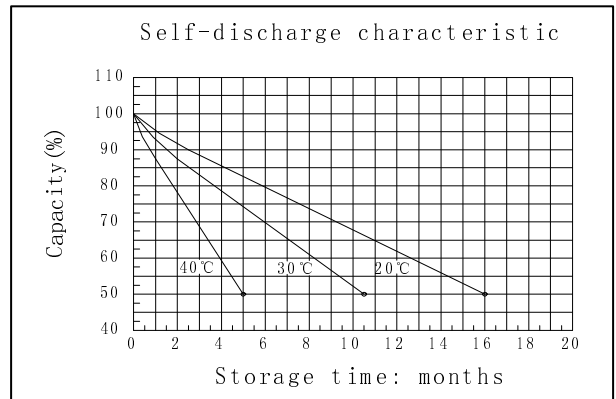
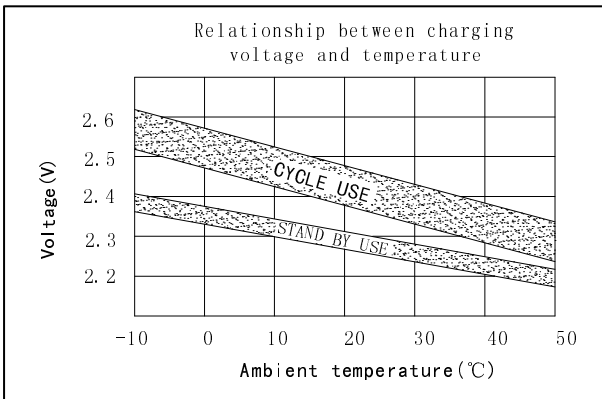
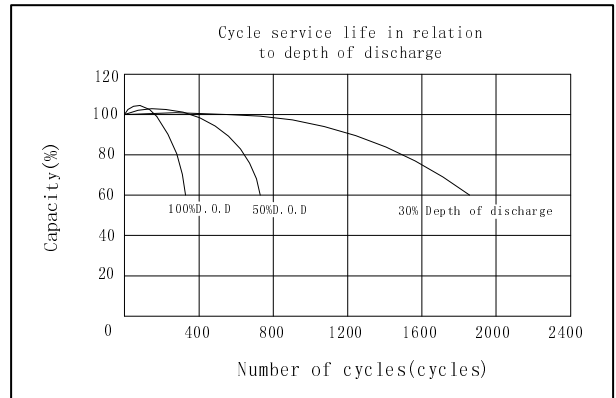
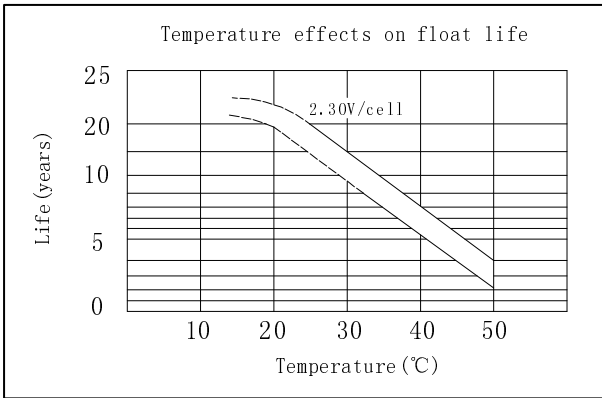
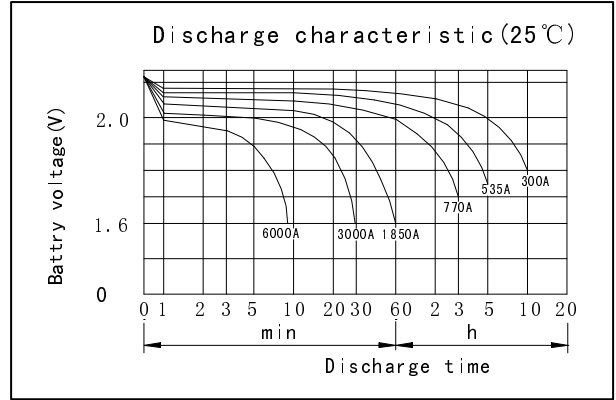
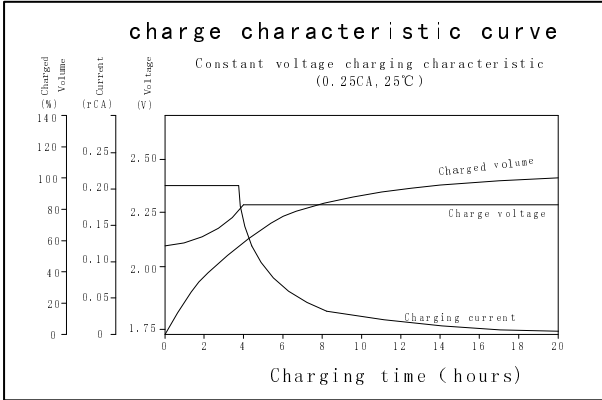
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	3h	5h	10h
1.60V		5990	4687	3475	2518	2167	962	676	371
1.65V		5678	4460	3323	2415	2090	933	657	367
1.70V		5358	4226	3160	2308	2013	890	624	361
1.75V		5020	3988	2996	2196	1953	865	607	355
1.80V		4687	3748	2827	2041	1860	825	570	350

#### Discharge Constant Power (watts at 77° F 25 °C)

End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V		9734	7750	5695	4104	3556	2375	1570	1109
1.65V		9563	7492	5540	4033	3498	2350	1558	1098
1.70V		9256	7286	5460	3993	3478	2264	1539	1080
1.75V		8905	7098	5302	3886	3450	2167	1526	1076
1.80V		8568	6896	5201	3740	3422	2063	1518	1053

(Note)The above characteristics data are average values obtained

Within three charge/discharge cycles not the minimum values.



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ISO9001:2000    MH29838    C4M20412-3881-E-16

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