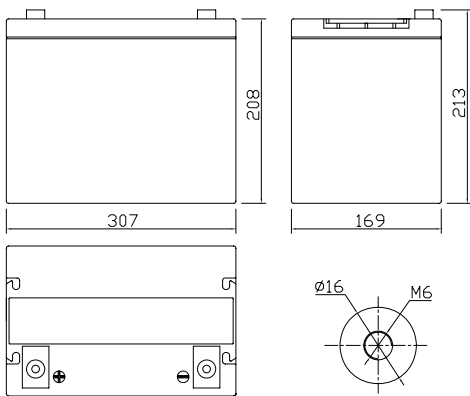


12V85

The battery is constructed by plates, separators, safety valves and container.
 Since the electrolyte is held by a glassmat separator and plates, the battery can use in any direction and position without leakage.

Outer Dimensions



Dimensions and Weight

Length (mm / inch )	.....307 / 12.09
Width (mm / inch )	.....169 / 6.65
Height (mm / inch )	.....208 / 8.19
Total Height (mm / inch )	.....213 / 8.39
Approx.Weight(Kg / lbs )	.....25.0/ 55.0

Performance Characteristics

Nominal Voltage	..... 12V
Number of cell	..... 6
Design Life	.....5years
Nominal Capacity 77°F(25°C)	
20 hour rate(42.5A, 10.5V)	.....85Ah
10 hour rate(8.34A, 10.5V)	.....83.4Ah
5 hour rate (15.4A, 10.5V)	.....77.0Ah
1 hour rate(58.3A, 9.6V)	.....58.3Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	.....4.5mΩ
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operation Temperature Range	
Discharge	..... -20~60°C
Charge	..... -10~60°C
Storage	..... -20~60°C
Max.Discharge Current 77°F(25°C)	.....1140A(5s)
Short Circuit Current	..... 1800A

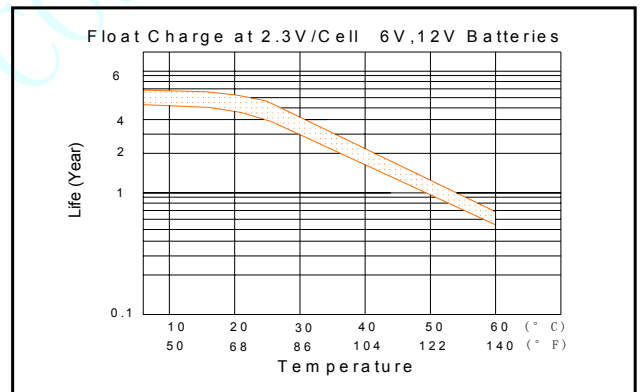
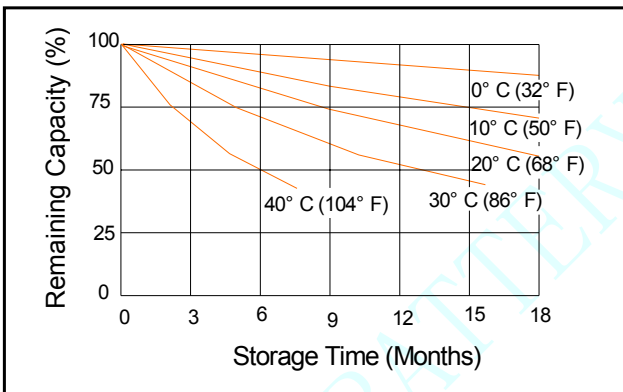
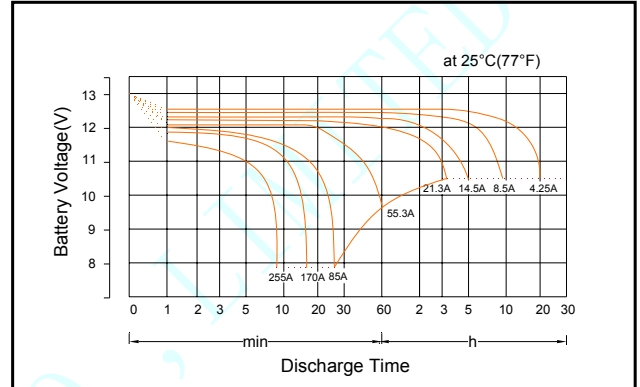
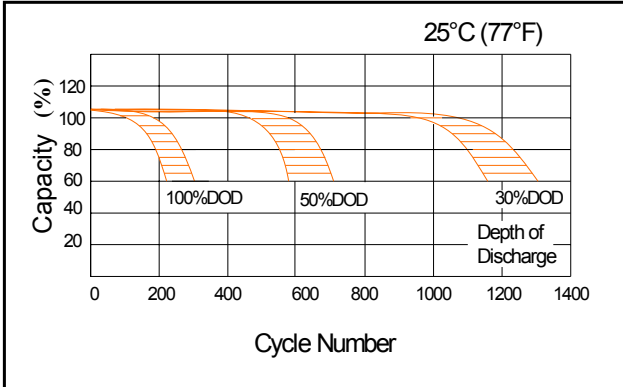
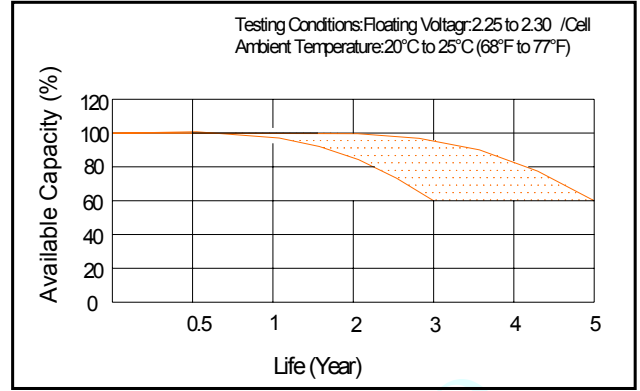
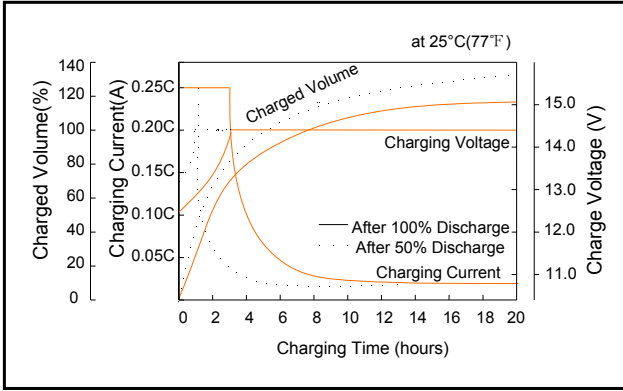
Battery Construction

COMPONENT	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

Charging Methods

Application	Charging method	Charging Voltage at 25°C	Temperature compensation coefficient of charging voltage	Max.charging current	Charging time 25°C(h)		Temp (°C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.4-13.8V	-18 mV/°C	25.5A	48	24	0~40 (32~104°F)
For cycle service		14.5-15.0V	-30 mV/°C	258.5A	20	12	

12-85AH



Discharge Constant Current (Amperes at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	315	251	179	104	73.6	58.4	31.5	22.8	15.5	10.2	8.43	4.58
9.90V	305	243	171	102	72.7	57.9	31.1	22.7	15.4	10.2	8.43	4.58
10.20V	287	225	162	99.2	71.8	57.4	31.0	22.5	15.3	10.1	8.35	4.49
10.50V	251	189	153	93.3	70.9	56.6	30.5	22.1	15.3	9.92	8.35	4.49
10.80V	225	162	144	80.8	70.0	55.6	29.7	21.5	15.0	9.92	8.17	4.40

Discharge Constant Power (Watts at 77°F/25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	3428	2754	1978	1201	839	674	362	263	179	118	98.2	53.8
9.90V	3292	2641	1870	1162	833	663	359	262	178	117	98.2	53.8
10.20V	3134	2482	1791	1105	822	663	356	260	177	117	98.2	53.4
10.50V	2748	2091	1689	1043	810	652	352	257	177	116	97.3	52.2
10.80V	2454	1887	1592	895	793	640	341	249	175	116	95.4	51.2

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