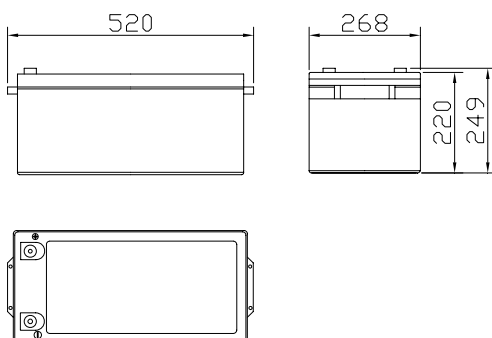


Model: 6-GFM(D)-250 12V250(D)

Sunbright deep cycle battery has good cyclic property, enhanced overcharge endurance and overdischarge recovery property. The battery uses high purity raw material: ensure low self discharge rate; also it applied oxygen recombination technology: maintenance-free. Mainly applications: solar storage battery system, solar and wind powered systems, communication system, uninterruptible power supplies, electric vehicles etc.

Dimensions



Dimensions and Weight

Length (mm / inch)	520/ 20.47
Width (mm / inch)	268 / 10.55
Height (mm / inch)	220 / 8.66
Total Height (mm / inch)	249 / 9.80
Approx.Weight(Kg / lbs)	71.0 / 156.2

Performance Characteristics

Nominal Voltage	12V
Design Life	8 years
Nominal Capacity 77°F(25°C)	
10 hour rate(25A,10.5V)	250Ah
5 hour rate (43A,10.5V)	215Ah
1 hour rate(162A,9.6V)	162Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	1mΩ
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)	1500A(5s)
Short Circuit Current	3750A

Battery Construction

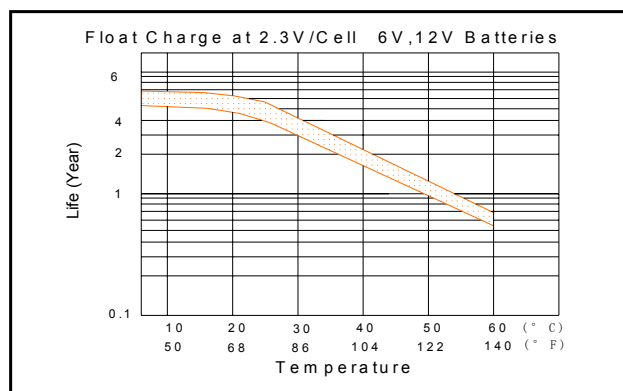
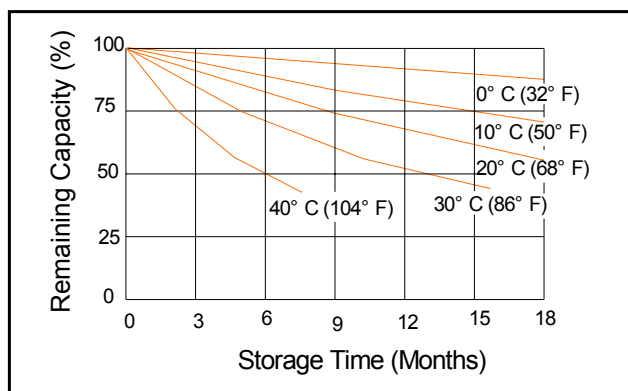
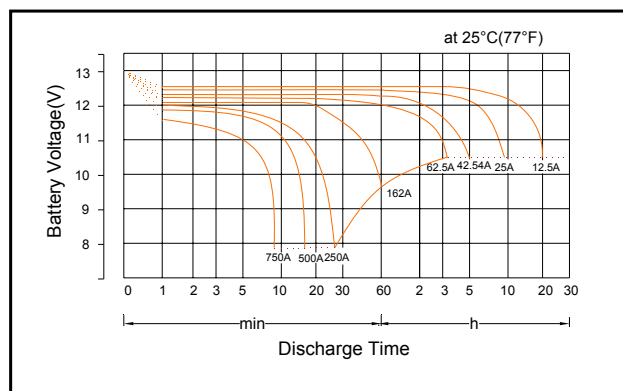
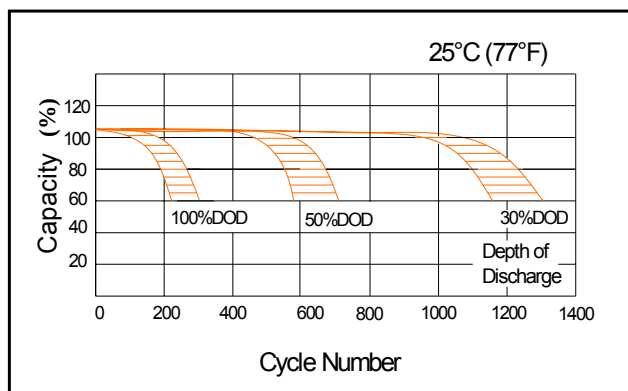
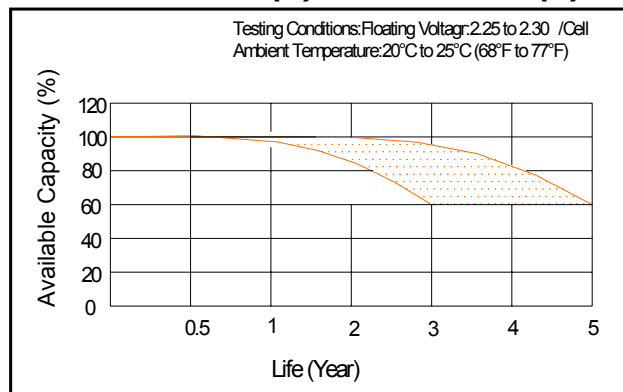
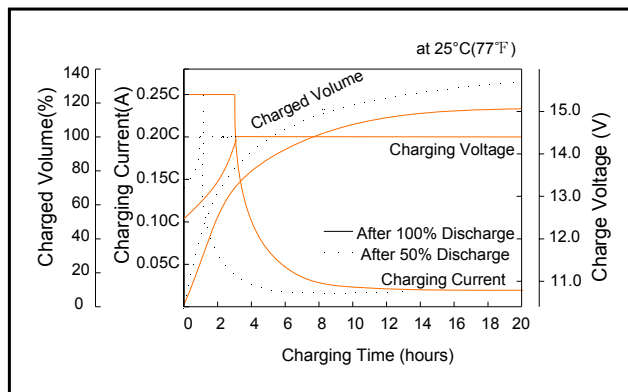
COMPONENT	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	ABS	ABS	Rubber	LEAD	Fiberglass	Sulfuric acid

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	75A	24	20	0~40 (32~104°F)
For cycle service		14.5-15.0V	-30 mV/°C	75A	16	10	

*Temperature compensation of charging voltage is not needed when using the batteries within 15°C to 35°C range.

6-GFM(D)-250 12V250(D)Ah



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	875	700	500	289	205	150	87.5	63.1	43.0	28.1	23.5	12.8
9.90V	850	675	475	281	201	148	86.9	63.0	42.6	28.1	23.5	12.8
10.20V	800	625	450	275	200	145	86.4	62.5	42.5	28.0	23.1	12.5
10.50V	700	525	425	260	199	143	85.0	61.9	42.5	27.6	23.1	12.5
10.80V	625	450	400	225	195	138	82.5	60.0	42.0	27.6	22.6	12.3

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	9564	7656	5526	3336	2340	1884	1014	732	498	329	274	150
9.90V	9156	7350	5220	3234	2310	1836	996	726	495	327	273	150
10.20V	8730	6906	4974	3084	2280	1836	990	726	492	327	273	149
10.50V	7650	5844	4704	2886	2250	1806	984	714	492	323	270	146
10.80V	6834	5250	4434	2514	2220	1794	954	696	488	323	266	143