



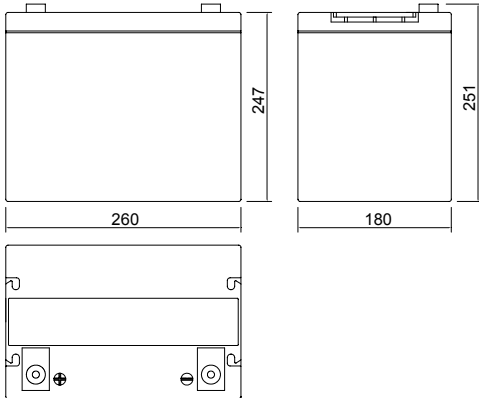
# WBR BATTERY CO., LIMITED

## 6V180Ah

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 )	260 / 10.2
Width ( mm / inch )	180 / 7.09
Height ( mm / inch )	247 / 9.72
Total Height ( mm / inch )	251 / 9.88
Approx.Weight( Kg / lbs )	18.0 / 39.6

### Performance Characteristics

Nominal Voltage	6V
Number of cell	3
Design Life	5 years
Nominal Capacity 77°F(25°C)	
10 hour rate(18.0A,5.25V)	180Ah
5 hour rate (33.4 A,5.25V)	167Ah
1 hour rate(117A,4.80V)	117Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	2 mΩ
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)	2160A(5s)
Short Circuit Current	2700A

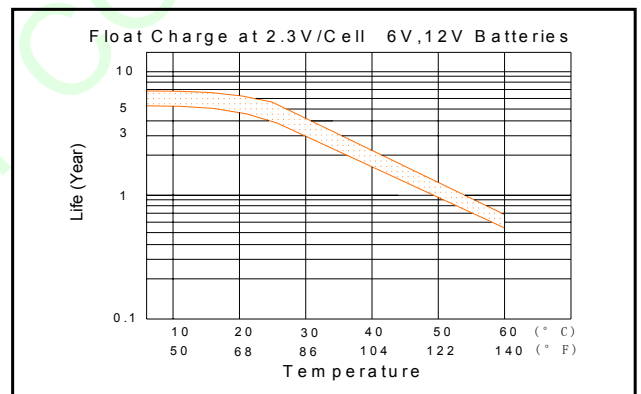
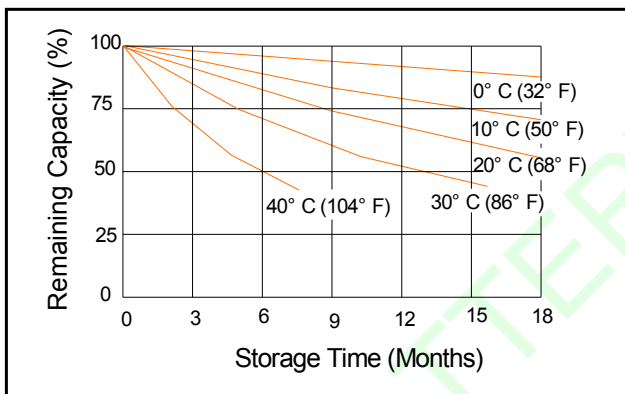
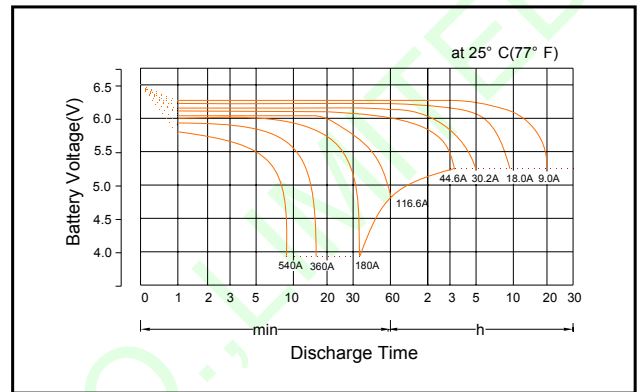
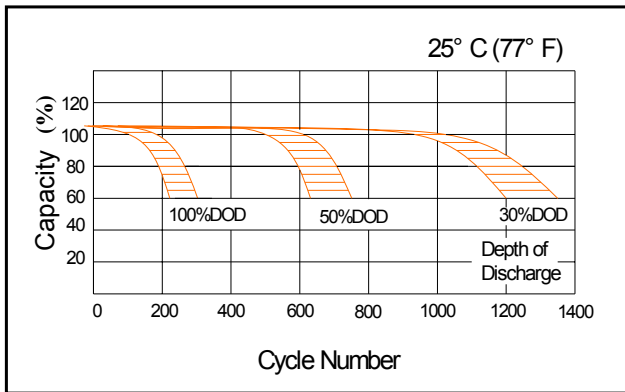
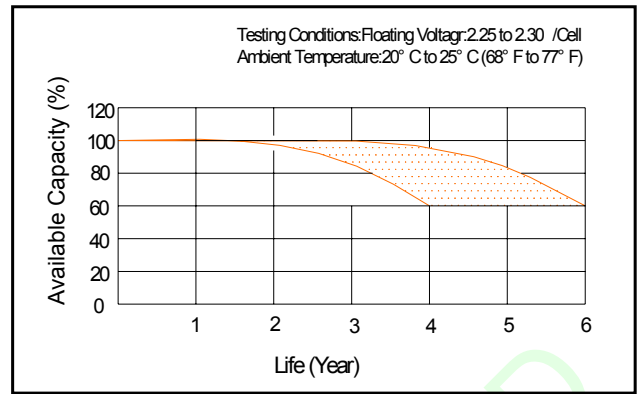
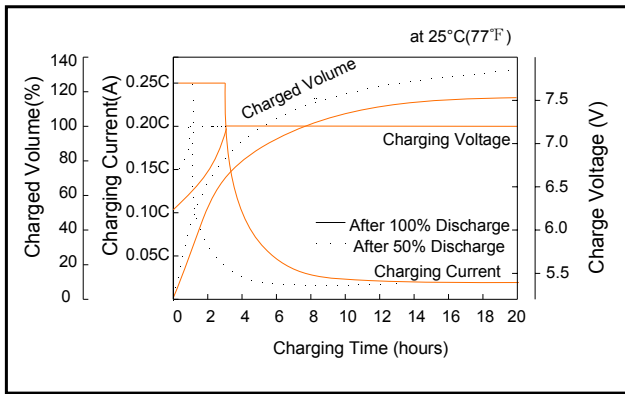
### Battery Construction

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)	6.75-6.90V	-20 mV/° C	54A	24	20	0~40 (32~104° F)
For cycle service		7.30-7.50V	-30 mV/° C	54A	16	10	

# 6V180Ah



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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	631	504	360	207	148	117	63.1	45.5	31.0	20.3	17.0	9.12
1.65V	612	487	343	203	145	116	62.5	45.4	30.7	20.3	17.0	9.12
1.70V	576	451	324	199	144	115	62.2	45.1	30.7	20.2	16.7	9.04
1.75V	504	379	307	189	142	114	61.2	44.5	30.7	19.9	16.7	9.04
1.80V	451	324	288	163	140	112	59.5	43.2	30.2	19.9	16.3	8.88

## Discharge Constant Power (Watts/cell at 77°F25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1148	919	662	400	279	226	121	88.0	59.8	39.5	32.8	18.0
1.65V	1099	883	626	387	278	220	120	87.3	59.5	39.2	32.8	18.0
1.70V	1048	829	598	370	274	220	119	87.3	59.0	39.2	32.8	17.9
1.75V	919	701	563	347	271	217	118	85.5	59.0	38.7	32.4	17.6
1.80V	819	631	531	301	266	215	114	83.2	58.6	38.7	32.0	17.1

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