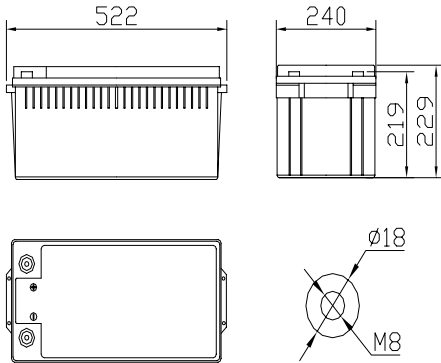




WBR BATTERY CO.,LIMITED

12V 250AH

The battery is manufactured with special sheet separator and foamed silica. The batteries use silica gel to immobilize the electrolyte inside the battery. The proven silica gel technology improves battery cycle life and performance at cold ambient temperatures. The deep discharge cycles is increased by 50% as compared with the AGM battery.



Outer Dimensions

Dimensions and Weight

Length (mm / inch)	522 / 20.55
Width (mm / inch)	240 / 9.45
Height (mm / inch)	229 / 9.02
Total Height (mm / inch)	229 / 9.02
Approx.Weight(Kg / lbs)	72.0 / 158

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life(Solar/wind power)	3years
Nominal Capacity 77°F(25°C)	
10 hour rate(25.0 A,10.50V)	250Ah
5 hour rate (45.0A,10.50V)	225Ah
1 hour rate(138A,9.60V)	138Ah
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)	3750A(5s)
Short Circuit Current	6000A

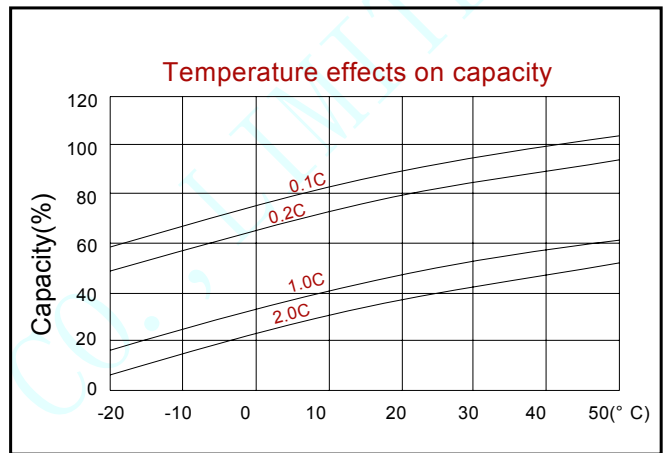
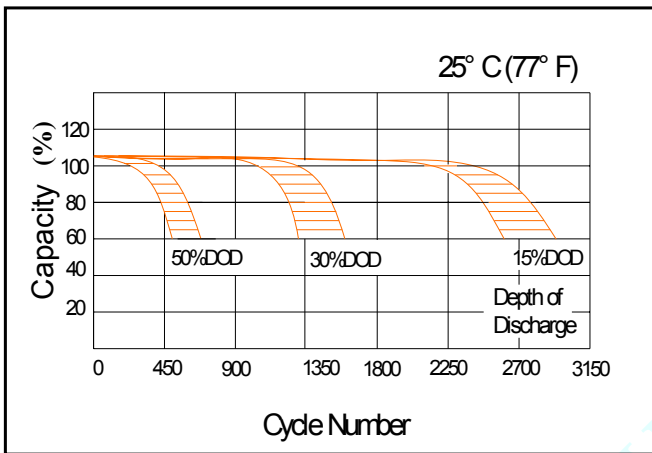
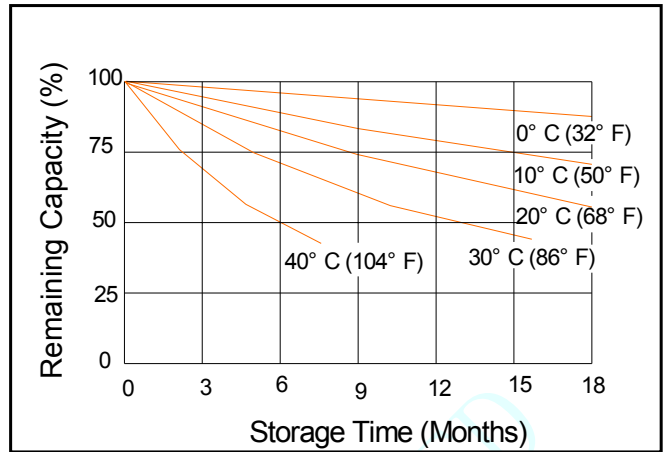
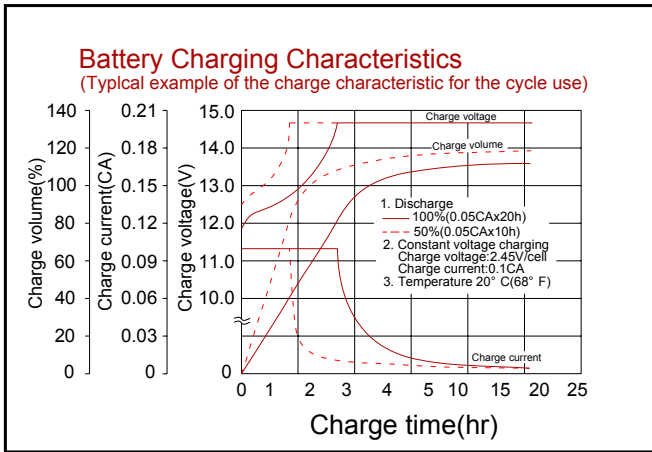
Battery Construction

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

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)
					30% discharge	50% discharge	100% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.5-13.8V	-18 mV/°C	50A	8	18	36	0~40 (32~104°F)
For cycle service		14.6-14.8V	-30 mV/°C	50A	6	10	16	

12V250Ah



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

F.V/Time	1h	2h	3h	5h	8h	10h	24h	30h	48h	72 h	120 h
9.60V	138	95.0	66.0	46.3	29.5	26.5	----	----	----	----	----
9.90V	134	93.3	64.5	46.3	29.5	26.5	----	----	----	----	----
10.20V	129	91.3	63.3	45.5	29.5	26.0	11.5	----	----	----	----
10.50V	121	90.5	62.8	45.0	29.3	25.0	11.3	10.2	----	----	----
10.80V	119	90.0	61.0	43.3	28.8	24.8	11.1	10.0	6.33	4.33	----
11.10V	116	82.8	59.5	42.5	28.0	24.5	10.9	9.88	6.18	4.18	2.53

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

F.V/Time	1h	2h	3h	5h	8h	10h	24h	30h	48h	72h	120 h
9.60V	1485	1063	745	538	348	315	----	----	----	----	----
9.90V	1440	1040	738	538	348	315	----	----	----	----	----
10.20V	1424	1023	728	533	348	310	138	----	----	----	----
10.50V	1331	1023	718	528	348	305	136	122	----	----	----
10.80V	1315	1018	705	510	343	300	134	120	75.5	51.8	----
11.10V	1291	940	690	500	333	295	131	118	74.5	51.0	31.0

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