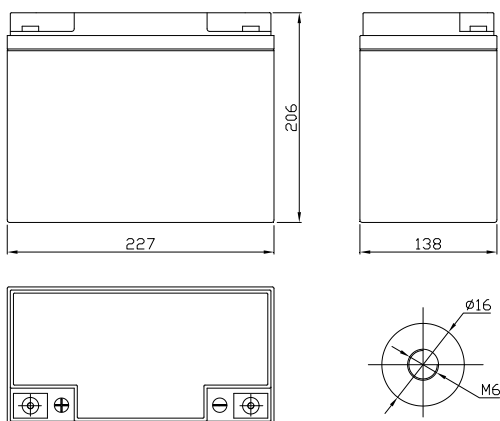


## LFP1255G(12V55Ah/10Hr)

The battery is manufactured with special sheet separator and colloidal or 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



### Performance Characteristics

Nominal Voltage .....	12V
Number of cell .....	6
Design Life .....	10 years
Nominal Capacity 77°F(25°C)	
10 hour rate(5.5A, 1.75V) .....	55Ah
5 hour rate (9.38A, 1.75V) .....	46.9Ah
1 hour rate(35.8A, 1.60V) .....	35.8Ah
Internal Resistance	
Fully Charged battery 77°F(25°C) .....	10mΩ
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) .....	660A(5s)
Short Circuit Current .....	825A

### Dimensions and Weight

Length ( mm / inch ).....	227 / 8.94
Width ( mm / inch ) .....	138 / 5.43
Height ( mm / inch ) .....	206 / 8.11
Total Height ( mm / inch ).....	228 / 8.98
Approx.Weight( Kg / lbs ).....	19.0 / 41.8

### Battery Construction

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

### Charging Methods

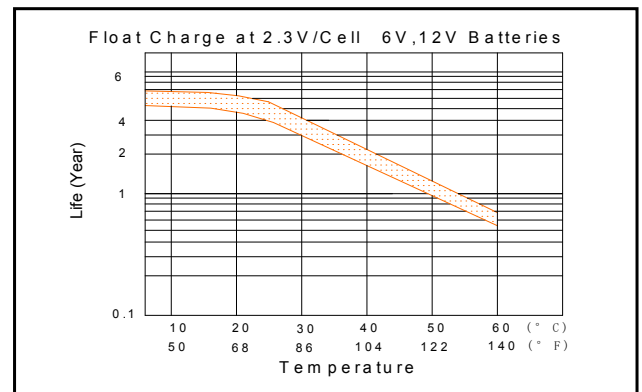
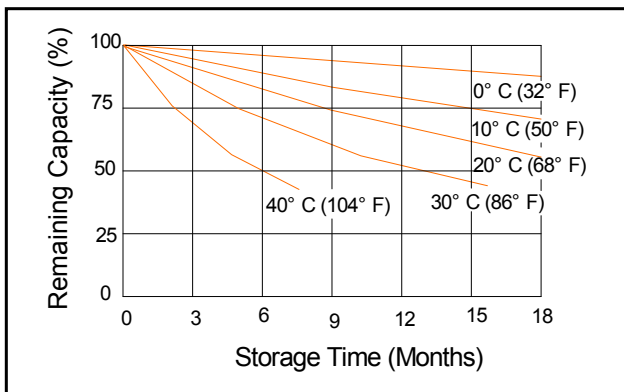
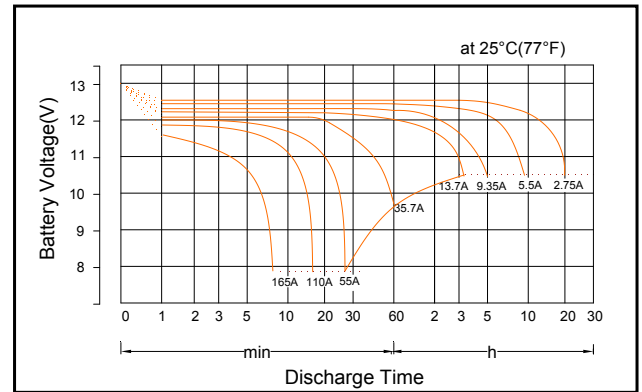
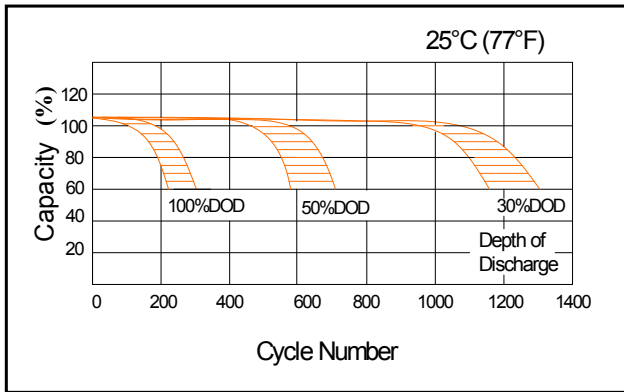
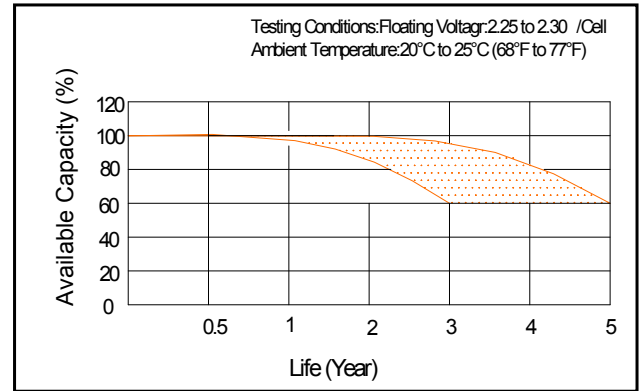
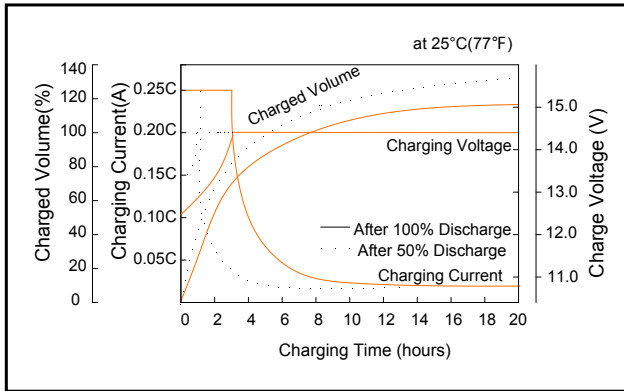
Application	Charging method	Charging Voltage at 25° C	Temperature compensation coefficient of charging voltage	Max.charging current	Charging time 25°C(h)		Temp (° C)  (32~104° F)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.4-13.8V	-18 mV/° C	16.5A	24	20	0~40 (32~104° F)
For cycle service		14.5-15.0V	-30 mV/° C	16.5A	16	10	

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

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## LFP1255G(12V55Ah/10Hr)



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

F.V./Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	193	154	110	63.3	45.1	35.8	19.3	14.0	9.46	6.22	5.57	2.84
1.65V	187	149	105	62.2	44.6	35.5	19.1	13.9	9.41	6.22	5.55	2.81
1.70V	176	138	99.0	60.5	44.0	35.2	19.0	13.8	9.40	6.16	5.54	2.77
1.75V	154	116	93.5	57.2	43.5	34.7	18.7	13.6	9.38	6.11	5.50	2.75
1.80V	138	99	88.0	49.5	42.9	34.1	18.2	13.2	9.24	6.11	5.42	2.70

### 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
1.60V	351	282	202	123	85.8	68.8	37.0	26.8	18.3	12.5	10.3	5.55
1.65V	337	270	191	119	84.7	67.7	36.7	26.7	18.2	12.2	10.2	5.50
1.70V	320	254	183	113	83.6	67.7	36.4	26.6	18.0	12.0	10.0	5.45
1.75V	281	215	173	106	82.5	66.6	36.0	26.3	18.0	11.9	9.90	5.34
1.80V	251	193	163	91.9	81.4	65.5	34.9	25.5	17.9	11.9	9.74	5.23