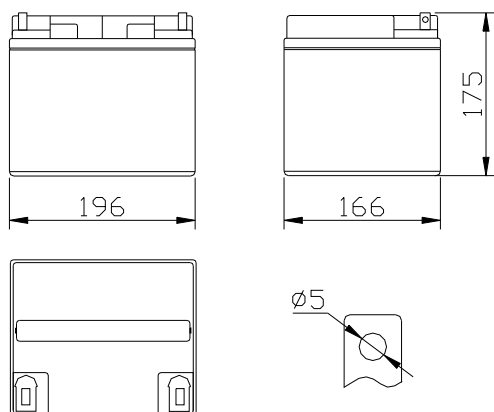


12V40Ah

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. It's the battery suitable for solar power system.

Outer Dimensions



Dimensions and Weight

Length (mm / inch)	196 / 7.72
Width (mm / inch)	166 / 6.54
Height (mm / inch)	175 / 6.89
Total Height (mm / inch)	175 / 6.89
Approx.Weight(Kg / lbs)	13.0 / 28.6

Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	12 years
Nominal Capacity 77°F(25°C)	
10 hour rate(4.0A,10.5V)	40Ah
5 hour rate (6.60A,10.5V)	33Ah
1 hour rate(26.0A,9.6V)	26.0Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	8mΩ
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)	456A(5s)
Short Circuit Current	570A

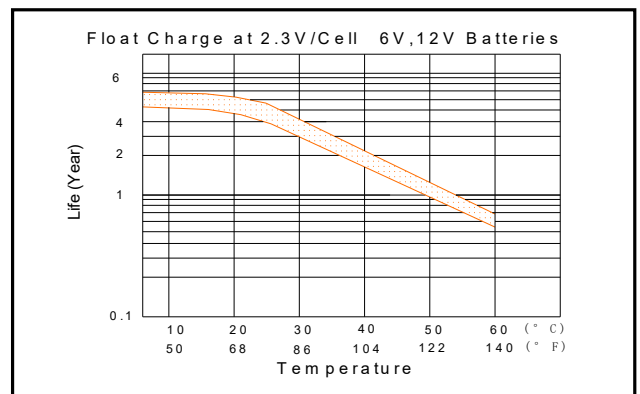
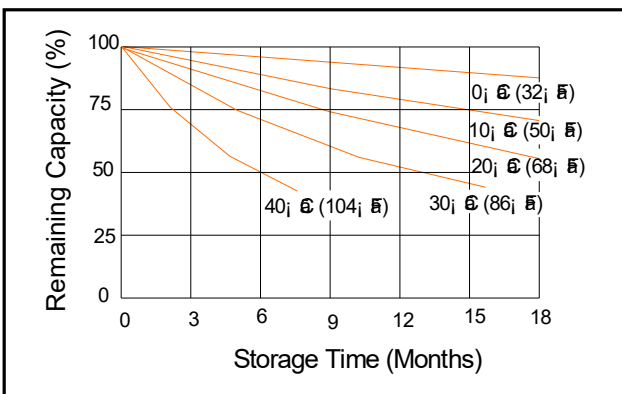
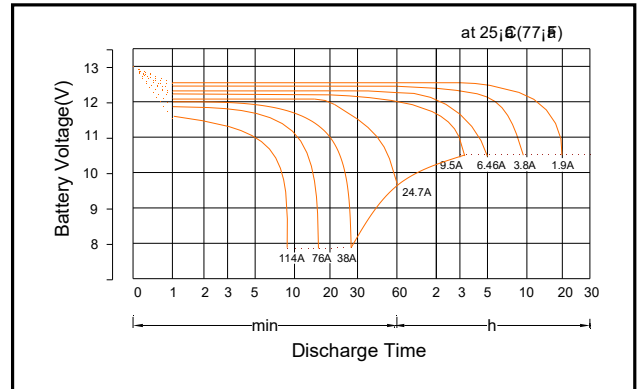
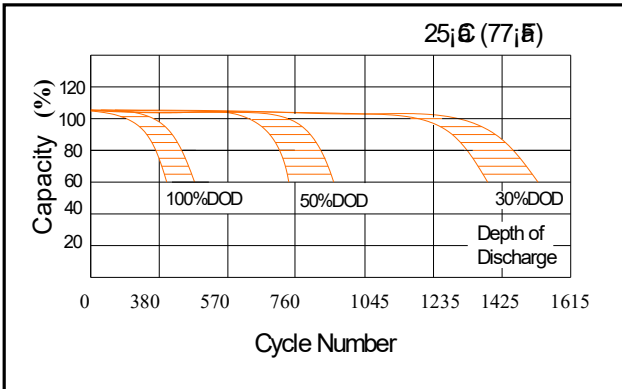
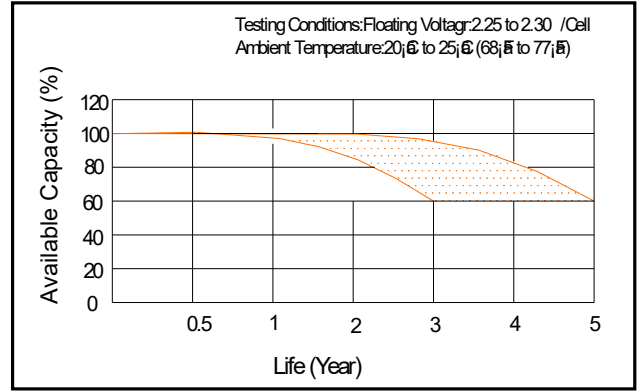
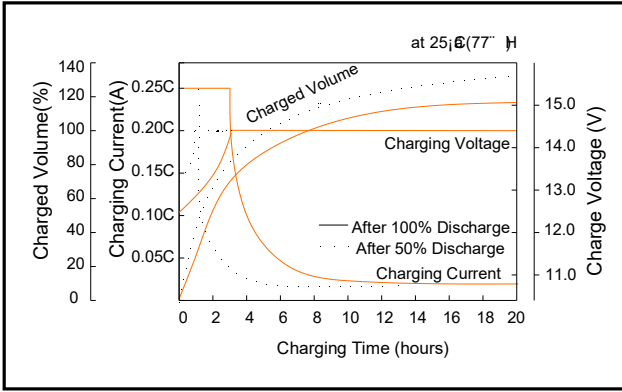
Battery Construction

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)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.4-13.8V	-18 mV/°C	11.4A	24	20	0~40 (32~104°F)
For cycle service		14.5-15.0V	-30 mV/°C	11.4A	16	10	

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



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	133.0	106.4	76.0	43.7	31.2	26.0	13.3	9.62	6.67	4.36	4.10	2.16
1.65V	129.2	102.6	72.2	42.9	30.8	25.5	13.2	9.58	6.64	4.30	4.07	2.15
1.70V	121.6	95.0	68.4	41.8	30.4	24.9	13.1	9.50	6.62	4.26	4.05	2.12
1.75V	106.4	79.8	64.6	39.5	30.0	24.6	12.9	9.39	6.60	4.24	4.00	2.10
1.80V	95.0	68.4	60.8	34.2	29.6	23.8	12.5	9.12	6.48	4.22	3.95	1.86

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	242.1	194.2	140.0	84.7	59.3	47.5	25.5	18.5	13.2	8.32	6.96	3.92
1.65V	232.2	186.2	132.2	81.7	58.5	46.7	25.4	18.4	12.9	8.28	6.92	3.90
1.70V	221.2	175.2	126.0	77.9	57.8	46.7	25.2	18.4	12.7	8.28	6.92	3.84
1.75V	193.8	147.8	119.1	73.3	57.0	46.0	24.8	18.1	12.5	8.17	6.84	3.80
1.80V	172.9	133.0	112.1	63.5	56.2	45.2	24.1	17.6	12.4	8.17	6.73	3.50