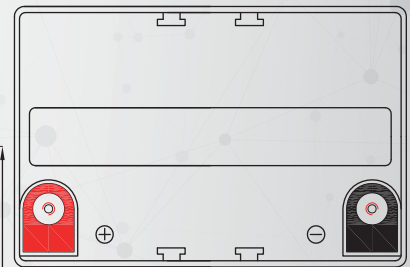
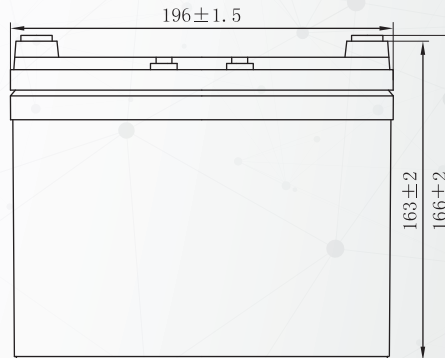


# 6MF-35



Termin



## ► Specifications

Nominal Voltage		12V
Number of cell		6
Rated Capacity (20 hour rate)		35Ah
Dimensions	Total Height (with terminals)	6.53 inch (166±2mm)
	Height	6.41 inch (163±2mm)
	Length	7.71 inch (196±1.5mm)
	Width	5.15 inch (131±1.5mm)
Weight		10Kg

## ► Characteristics

Capacity 77°F (25°C)	20 hour rate (5A)	35Ah
Internal Resistance	Fully Charged battery 77° F(25°C)	9.5m Ω
Operating Temperature Range	Discharge -15~50°C	
	Charge -15~40°C	
	Storage -15~40°C	
Self-Discharge	Capacity declined for more than 6 months at 25°C	
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C(77°F)	
Maximum Discharge Current	525A(5sec)	
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.	

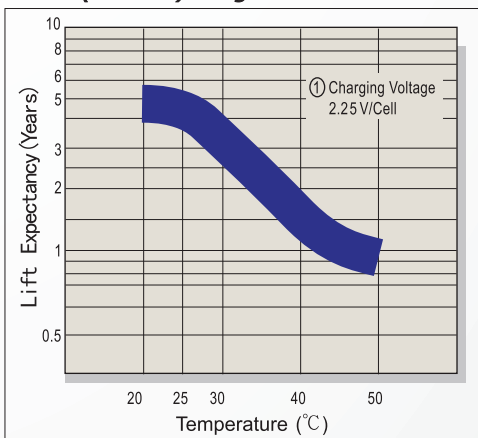
### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	76.6	57.7	35.4	21.14	8.72	5.92	3.382	1.804
1.67V	74.5	56.3	34.8	20.85	8.65	5.88	3.377	1.799
1.7V	73.1	55.2	34.3	20.61	8.58	5.85	3.372	1.793
1.75V	69.0	55.2	33.1	19.95	8.42	5.76	3.353	1.777
1.8V	36.1	48.7	31.6	19.10	8.12	5.60	3.300	1.750
1.85V	54.7	42.8	29.6	17.72	7.46	5.20	3.170	1.692

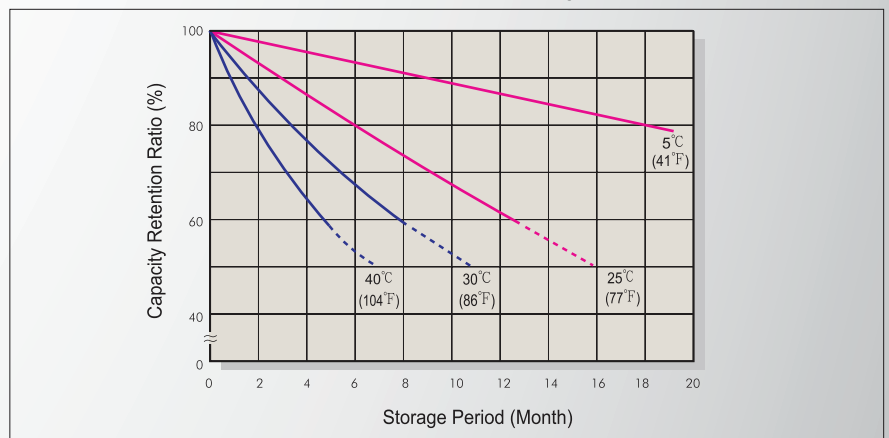
### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	140.4	113.2	67.1	40.19	17.20	11.55	6.657	3.579
1.67V	133.2	107.3	66.0	39.71	17.03	11.52	6.632	3.568
1.7V	127.6	102.9	65.2	39.41	16.90	11.47	6.619	3.560
1.75V	115.5	93.4	63.2	38.61	16.58	11.33	6.581	3.533
1.8V	101.2	82.4	60.3	37.27	15.99	11.02	6.492	3.482
1.85V	82.8	68.2	56.5	35.21	14.86	10.36	6.271	3.365

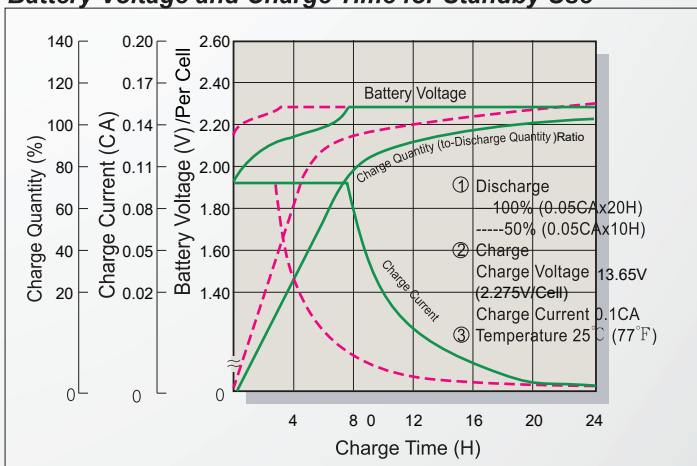
#### Trickle(or Float)Design Life



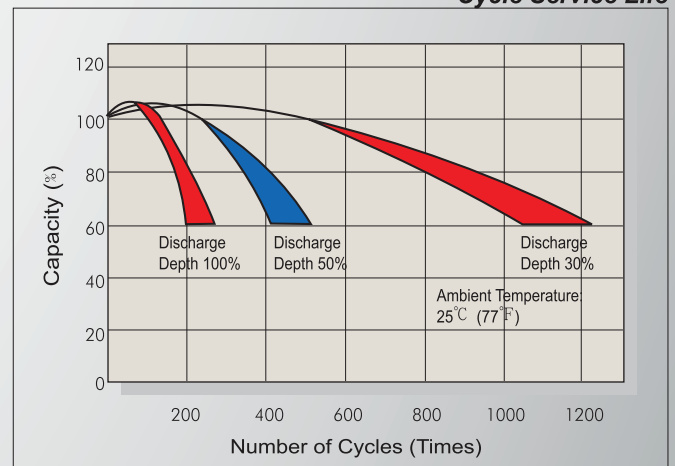
#### Capacity Retention Characteristic



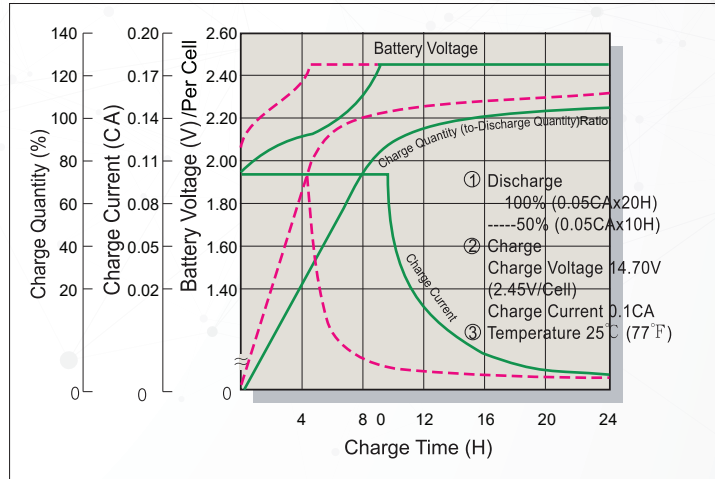
#### Battery Voltage and Charge Time for Standby Use



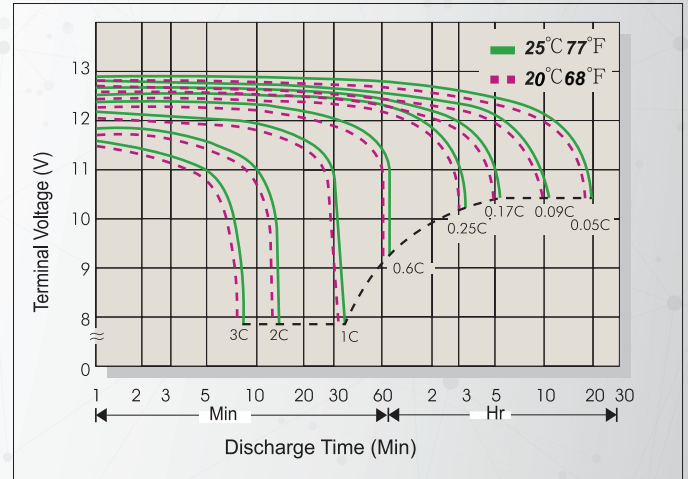
#### Cycle Service Life



### Battery Voltage and Charge Time for Cycle Use



### Terminal Voltage (V) and Discharge Time



### Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.3C
Standby	25°C(77°F)	2.275	2.25~2.30	

### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.65	1.60
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

### Effect of temperature on capacity (10HR)

Temperature	Dependency of Capacity ( 10HR)
40 °C	102%
25 °C	100%
0 °C	85%
-15 °C	65%

### Self-discharge Characteristics

Storage time	Preservation rate
3 Months	91%
6 Months	82%
12 Months	64%