

## Features:

- ◆ Maintenance-free operation
- ◆ Stable quality and high reliability
- ◆ Compact design
- ◆ 5 years design time (at 25°C)



## Applications

- ◆ UPS
- ◆ Emergency lighting
- ◆ Fire alarm and security systems
- ◆ Telecommunication system
- ◆ Backup power for testing and measuring instruments
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system

## Specifications

Nominal Voltage	12V(6cells)	Operating Temp Range	Discharge: -15—50°C(5—122°F) Charge : 0—40°C(32—104°F)
Nominal Capacity	7.0AH (20hr,1.75V/cell,25°C/77°F)	Nominal Operating Temp. Range	Storage : -15—40°C(5—104°F)
	6.30AH (5hr,1.75V/cell,25°C/77°F) 4.20AH(1hr,1.60V/cell,25°C/77°F)		25±3°C(77±5°F)
Dimension	Length 151±1mm	Cycle Use	14.4~14.8V(25°C/77°F)Temp.Coefficient-30mV/°C Initial Charging Current Less than 2.10A
	Width 65±1mm	Standby Use	13.5V~13.8V(25°C/77°F)Temp.Coefficient-20mV/°C No limit on Initial Charging Current
	Container Height 95±2mm		40°C(104°F) 103%
	Total Height(with Terminal) 102±2mm	Capacity affected by Temperature	25°C(77°F) 100%
Weight 2000G ± 3%		0°C(32°F) 86%	Self Discharge CASIL CA series batteries may be stored for up to 6months at 25°C(77°F)and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Terminal F1			
Container Material	ABS UL94 V0		
Max.Discharge Current	105A(5S)		
Internal Resistance	Approx 25mΩ		

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

F.V/Time	5min	10min	15min	30min	45min	1h	3h	4h	5h	6h	8h	10h	20h
1.60V	22.4	17.5	11.9	6.6	5.6	4.20	1.8	1.46	1.24	1.09	0.95	0.656	0.364
1.67V	22.0	17.2	11.7	6.4	5.49	4.12	1.8	1.44	1.23	1.08	0.94	0.649	0.361
1.70V	21.5	16.8	11.4	6.3	5.38	4.03	1.8	1.43	1.21	1.07	0.93	0.643	0.357
1.75V	21.1	16.5	11.2	6.2	5.27	3.95	1.75	1.40	1.19	1.05	0.91	0.630	0.350
1.80V	20.7	16.1	11.0	6.1	5.17	3.87	1.72	1.37	1.17	1.03	0.89	0.617	0.343

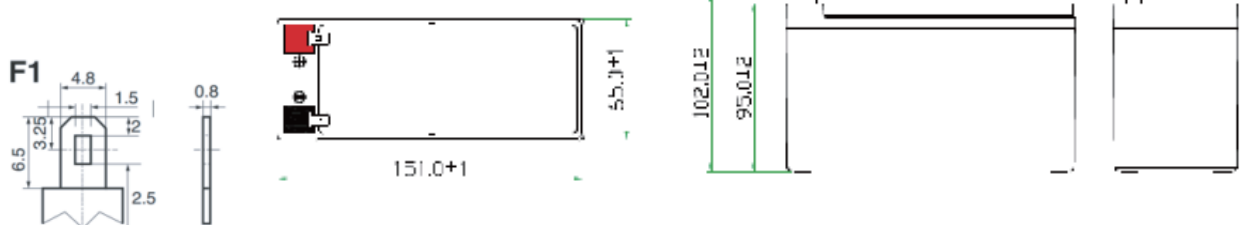
### Constant Power Discharge (Watts per cell at 25°C / 77 °F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	4h	5h	6h	8h	10h	20h
1.60V	40.3	31.5	21.4	11.8	10.6	8.0	3.64	2.91	2.48	2.19	1.89	1.31	0.728
1.67V	39.5	30.9	21.0	11.6	10.4	7.8	3.61	2.88	2.45	2.16	1.87	1.30	0.721
1.70V	38.7	30.3	20.6	11.4	10.2	7.7	3.57	2.86	2.43	2.14	1.86	1.29	0.714
1.75V	37.9	29.6	20.2	11.1	10.0	7.5	3.50	2.80	2.38	2.10	1.82	1.26	0.700
1.80V	37.2	29.1	19.8	10.9	9.8	7.4	3.43	2.74	2.33	2.06	1.78	1.23	0.686

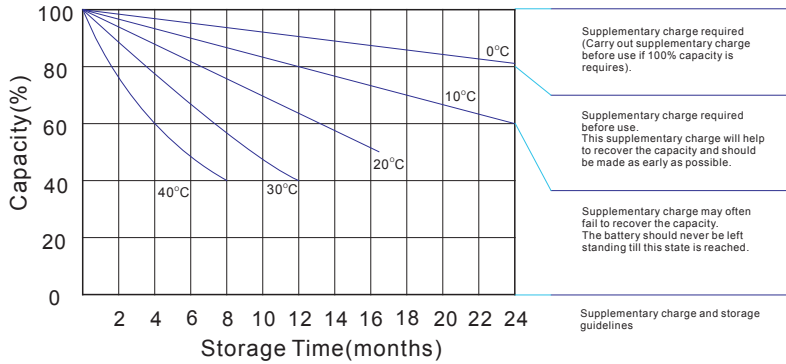
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

## Dimensions [Inches]

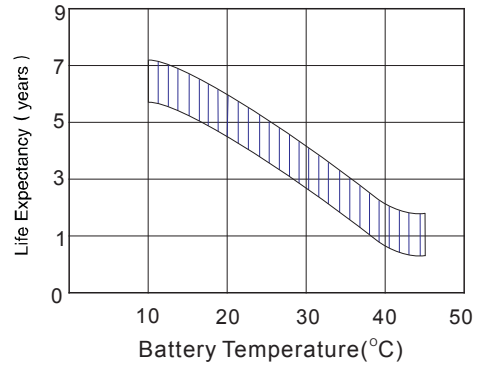
### Terminal



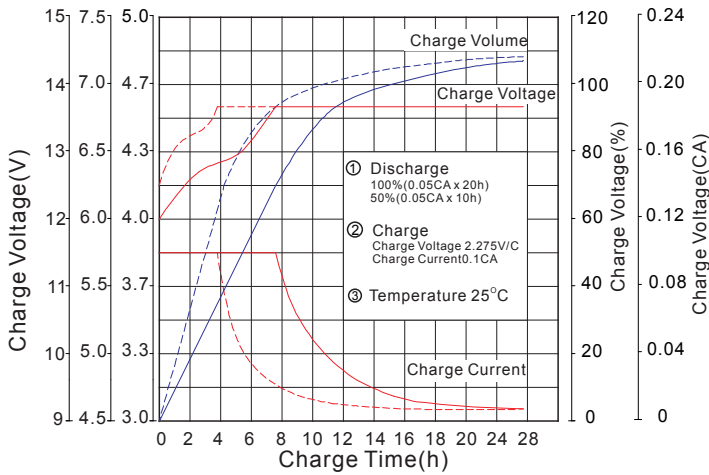
### Storage characteristics



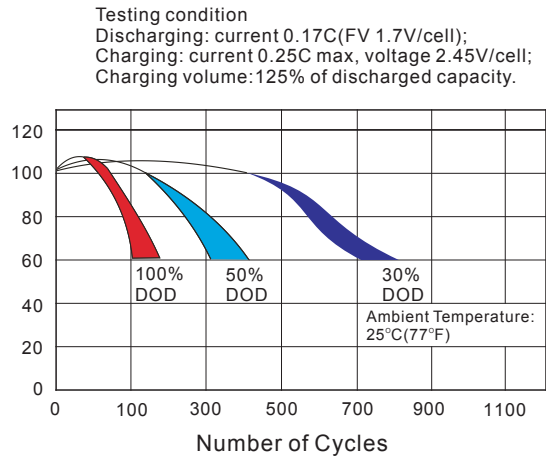
### Effect of temperature on long term float life



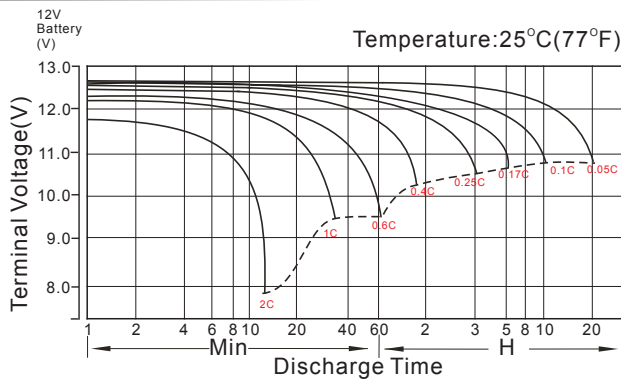
### Charge characteristic Curve for standby use



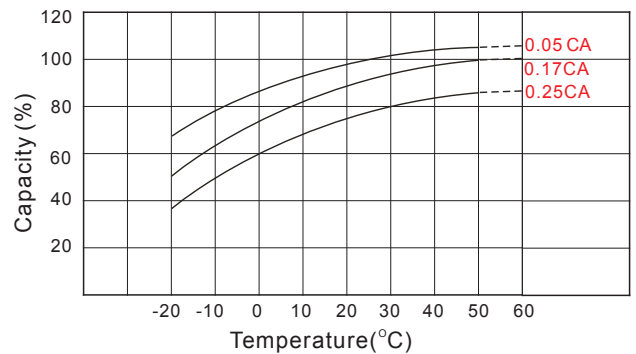
### Cycle Life in Relation to Depth of Discharge



### Discharge characteristic Curve



### Temperature Effects in Relation to Battery Capacity



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