

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) 12 AH (20hr,1.75V/cell,25°C/77°F)	Operating Temp Range	Discharge: -15—50°C(5—122°F) Charge : 0—40°C(32—104°F) Storage : -15—40°C(5—104°F)
Nominal Capacity	10.2AH(5hr,1.75V/cell,25°C/77°F) 7.20AH(1hr,1.60V/cell,25°C/77°F)	Nominal Operating Temp. Range	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 3.00A
	Width 99±1mm	Standby Use	13.5V~13.8V(25°C/77°F)Temp.Coefficient-20mV/°C No limit on Initial Charging Current
	Height 96±2mm		40°C(104°F) 103%
	Total Height 101±2mm	Capacity affected by Temperature	25°C(77°F) 100%
Weight	3300 G ±3%	Self Discharge	0°C(32°F) 86%
Terminal	F2		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.
Container Material	ABS UL94 V0		
Max.Discharge Current	150A(5S)		
Internal Resistance	Approx 19mΩ		

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	38.4	30.0	20.4	11.3	9.6	7.20	3.1	2.50	2.12	1.87	1.62	1.124	0.624
1.67V	37.6	29.4	20.0	11.1	9.41	7.06	3.1	2.47	2.10	1.85	1.61	1.113	0.618
1.70V	36.9	28.8	19.6	10.8	9.22	6.91	3.1	2.45	2.08	1.84	1.59	1.102	0.612
1.75V	36.1	28.2	19.2	10.6	9.04	6.78	3.00	2.40	2.04	1.80	1.56	1.080	0.600
1.80V	35.4	27.7	18.8	10.4	8.85	6.64	2.94	2.35	2.00	1.76	1.53	1.058	0.588

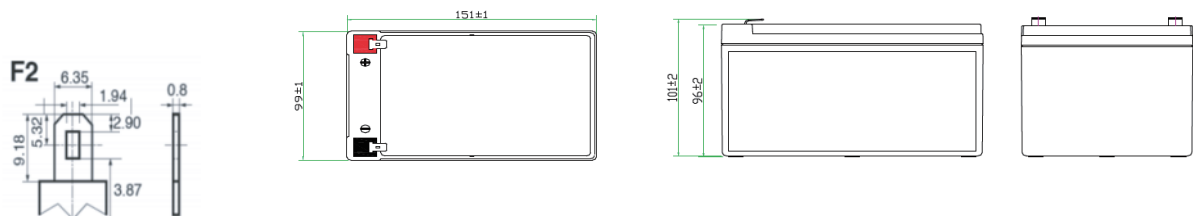
Constant Power Discharge (Watts per cell at 25°C / 77 °F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	4h	5h	6h	8h	10h	20h
1.60V	69.1	54.0	36.7	20.3	18.2	13.7	6.24	4.99	4.25	3.75	3.25	2.25	1.249
1.67V	67.7	52.9	36.0	19.9	17.9	13.4	6.18	4.94	4.20	3.71	3.21	2.23	1.236
1.70V	66.4	51.9	35.3	19.5	17.5	13.1	6.12	4.90	4.16	3.67	3.18	2.20	1.224
1.75V	65.1	50.8	34.6	19.1	17.2	12.9	6.00	4.80	4.08	3.60	3.12	2.16	1.200
1.80V	63.8	49.8	33.9	18.7	16.8	12.6	5.88	4.70	4.00	3.53	3.06	2.12	1.176

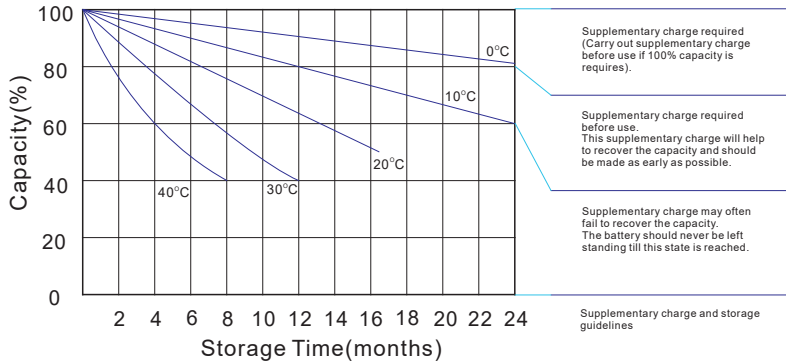
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.

Dimensions
Unit:mm [Inches]

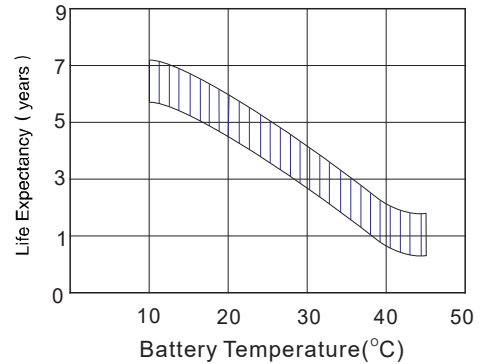
Terminal



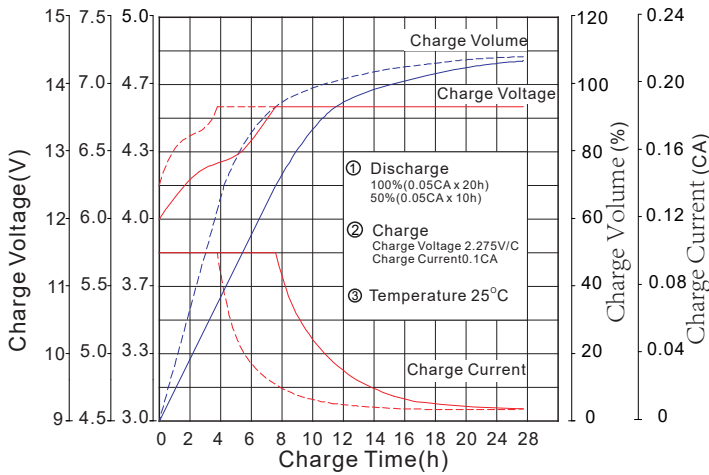
Storage characteristics



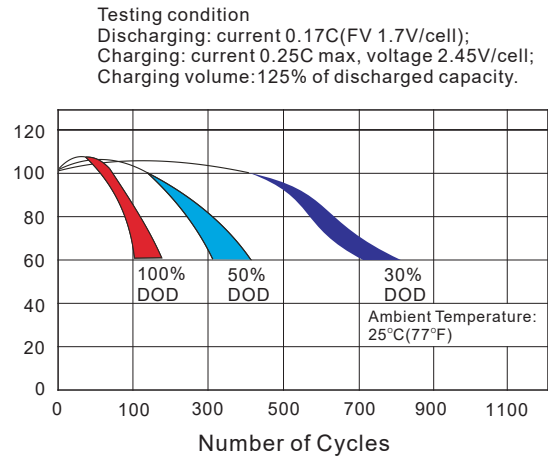
Effect of temperature on long term float life



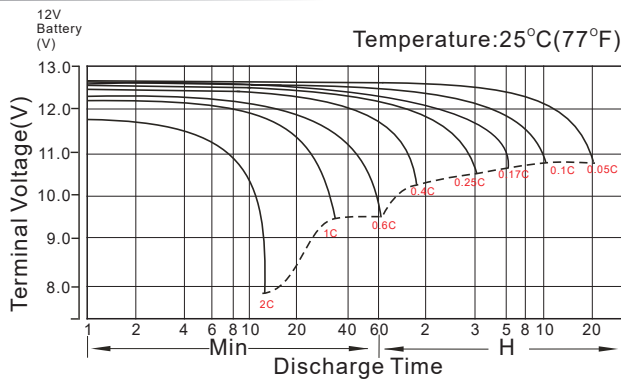
Charge characteristic Curve for standby use



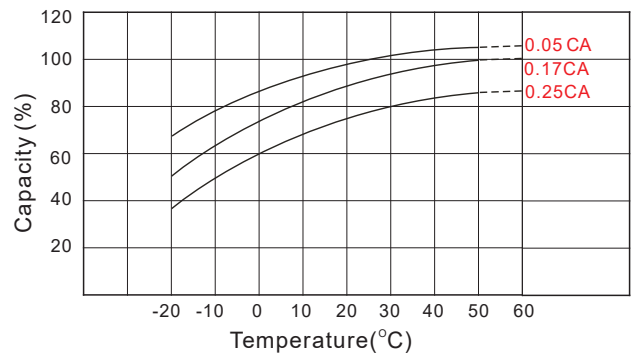
Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity



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