

Features:

- ◆ Maintenance-free operation
- ◆ Stable quality and high reliability
- ◆ Compact design
- ◆ 10 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 equipmer
- ◆ 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	38AH (20hr,1.75V/cell,25°C/77°F) 34.2AH(10hr,1.75V/cell,25°C/77°F) 32.3AH(5Hr,1.75V/cell,25°C/77°F)	Nominal Operating Temp. Range	Storage : -15—40°C(5—104°F)
Dimension	Length	Cycle Use	25±3°C(77±5°F)
	Width	Standby Use	14.4~14.8V(25°C/77°F)Temp.Coefficient-30mV/°C Initial Charging Current Less than 11A
	Container Height	Capacity affected by Temperature	40°C(104°F) 103%
	Total Height(with Terminal)		25°C(77°F) 100%
Approx Weight	Approx 13.0 Kg	Self Discharge	0°C(32°F) 86%
Terminal	T3	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	500A(5S)		
Internal Resistance	Approx 8.0 m Ω		

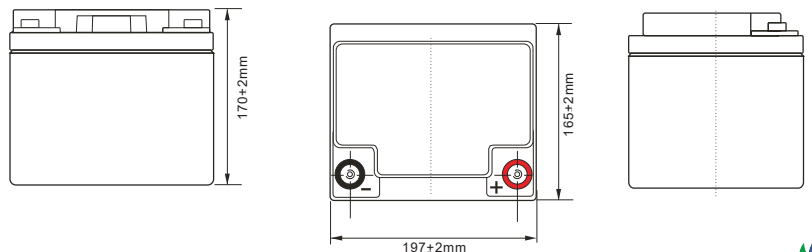
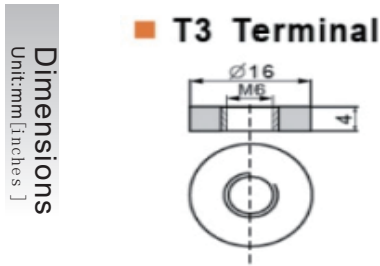
Constant Current Discharge (Amperes at 25°C / 77 °F)

F.V/Time	5min	10min	15min	30min	45min	1h	3h	4h	5h	6h	8h	10h	20h
1.60V	121.6	95.0	64.6	35.72	30.40	22.80	10.23	7.95	6.957	6.138	5.320	3.683	2.046
1.67V	118.6	92.6	63.0	34.83	29.64	22.23	9.98	7.87	6.787	5.989	5.190	3.593	1.996
1.70V	115.6	90.3	61.4	33.96	28.90	21.67	9.74	7.79	6.622	5.843	5.064	3.506	1.948
1.75V	112.7	88.1	59.9	33.11	28.18	21.13	9.50	7.60	6.460	5.700	4.940	3.420	1.900
1.80V	109.9	85.9	58.4	32.28	27.47	20.60	9.26	7.41	6.299	5.558	4.817	3.335	1.853

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	231.0	185.3	126.0	71.4	60.8	46.1	20.77	16.13	14.261	12.583	10.906	7.550	4.194
1.67V	225.3	180.6	122.8	69.7	59.3	44.9	20.26	15.97	13.913	12.277	10.640	7.366	4.092
1.70V	219.6	176.1	119.8	67.9	57.8	43.8	19.77	15.81	13.574	11.977	10.380	7.186	3.992
1.75V	214.1	171.7	116.8	66.2	56.4	42.7	19.29	15.43	13.243	11.685	10.127	7.011	3.895
1.80V	208.8	167.4	113.8	64.6	54.9	41.6	18.80	15.04	12.912	11.393	9.874	6.836	3.798

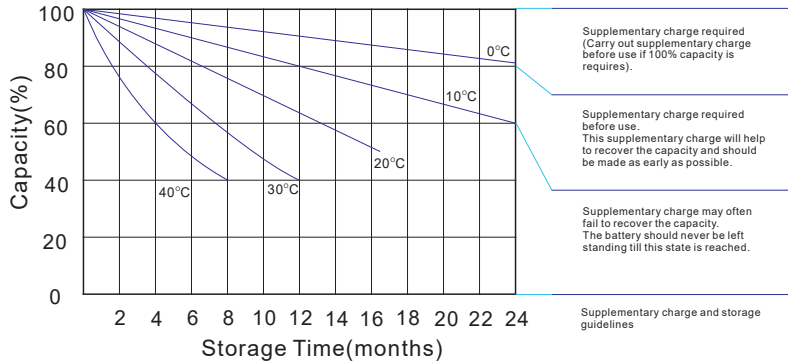
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.



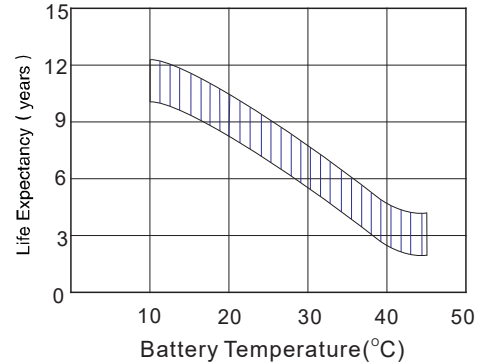
Dimensions
Unit:mm [Inches]



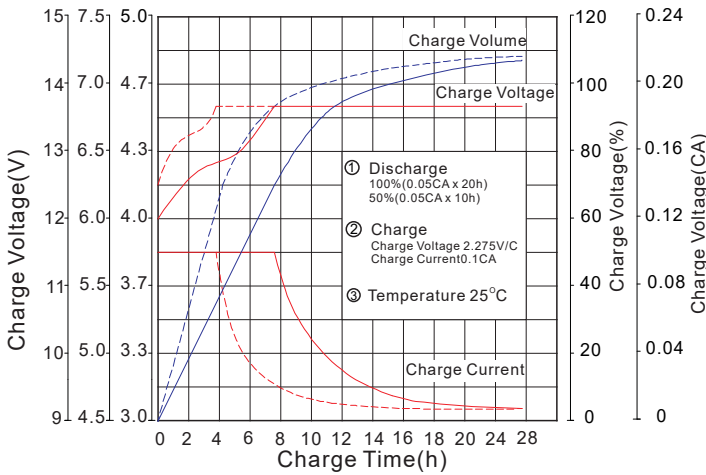
Storage characteristics



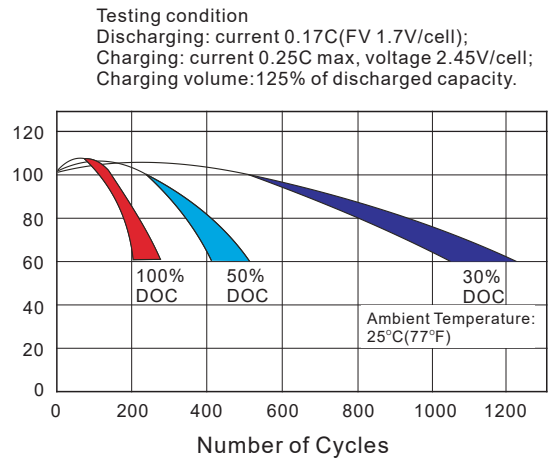
Effect of temperature on long term float life



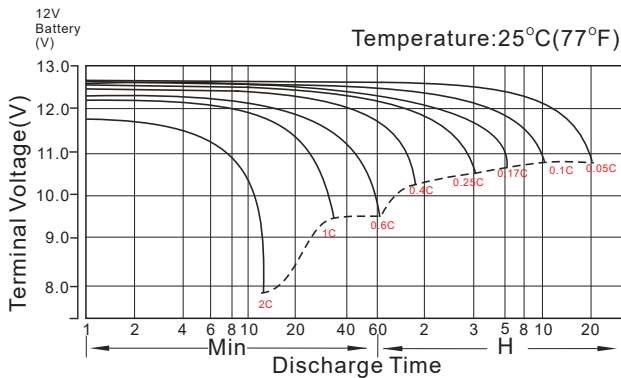
Charge characteristic Curve for standby use



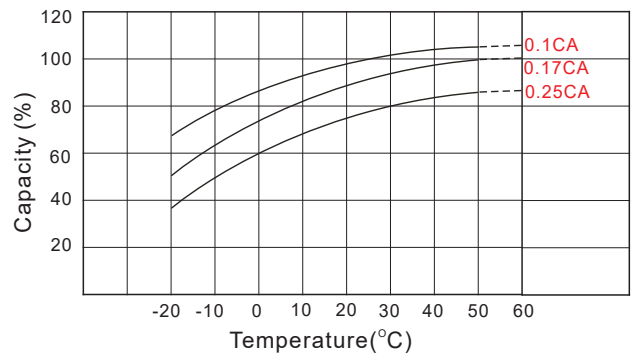
Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity



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