



CASIL CA12650 [12V65AH]

Features:

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



ISO 14001:2004
ISO 9001:2008



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)	
Nominal Capacity	65AH (10hr, 1.80V/cell, 25°C/77°F)		Charge: 0—40°C(32—104°F)	
Dimension	56AH (5hr, 1.75V/cell, 25°C/77°F)	Nominal Operating Temp. Range	Storage: -15—40°C(5—104°F)	
	39AH (1hr, 1.60V/cell, 25°C/77°F)		25±3°C(77±5°F)	
	Length	350±2mm	Cycle Use	14.4~14.8V(25°C/77°F)Temp.Coefficient-30mV/°C
	Width	167±2mm	Standby Use	Initial Charging Current Less than 20A
Container Height	175±2mm	13.5V~13.8V(25°C/77°F)Temp.Coefficient-20mV/°C		
Approx Weight	Approx 22.5Kg	Capacity affected by Temperature	No limit on Initial Charging Current	
Terminal	T3 or T5 or F5		40°C(104°F) 103%	
Container Material	ABS		25°C(77°F) 100%	
Max. Discharge Current	700A(5S)	Self Discharge	0°C(32°F) 86%	
Internal Resistance	Approx 6.8mΩ		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.	

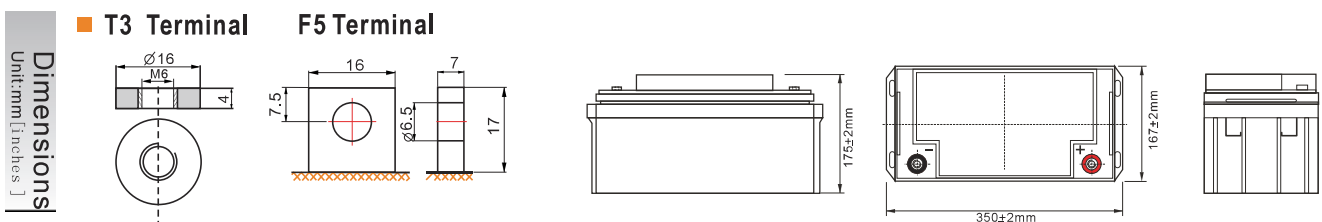
Constant Current Discharge(Amperes at 25°C/77 °F)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	116	95	59	45.5	37.1	21.6	16.3	11.2	6.6	3.38
1.70V/cell	137	111	64	48.8	39.3	22.9	17.0	11.6	6.7	3.48
1.60V/cell	153	123	70	52.7	42.3	24.2	17.8	12.0	6.8	3.58

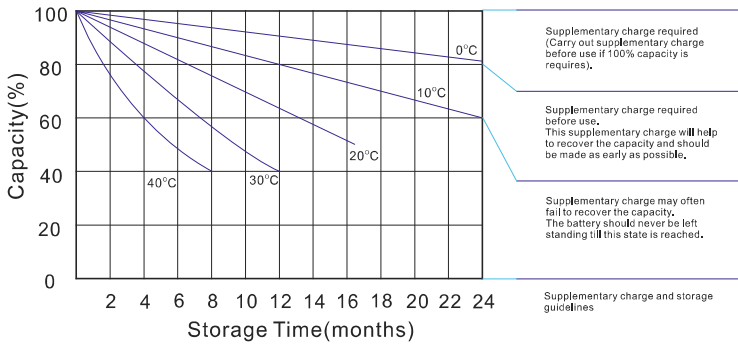
Constant Power Discharge(Watts per cell at 25°C/77 °F)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	213	180	111	86.5	72.2	41.7	31.5	22.1	13.0	6.69
1.70V/cell	241	199	120	93.0	74.8	43.8	32.8	22.7	13.2	6.86
1.60V/cell	262	215	130	98.2	79.7	45.6	34.1	23.3	13.3	7.03

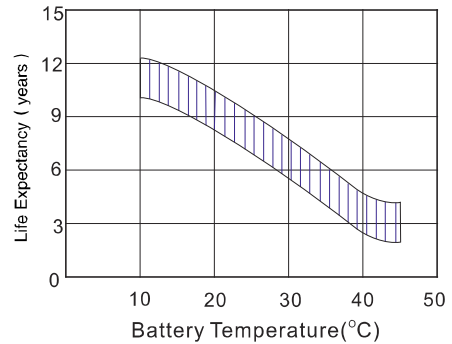
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.



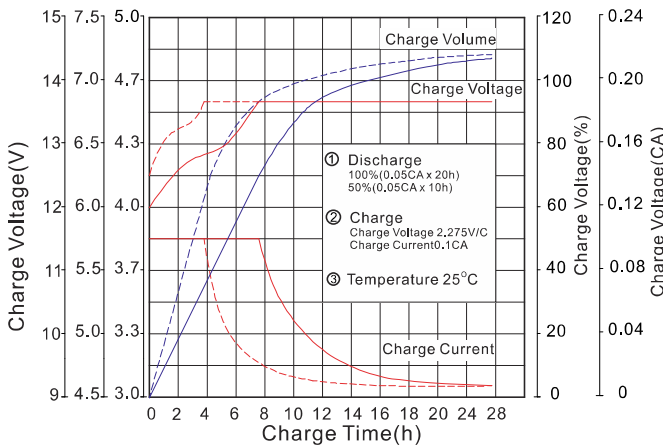
Storage characteristics



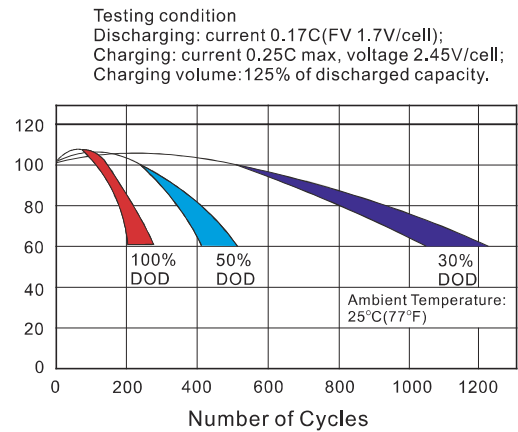
Effect of temperature on long term float life



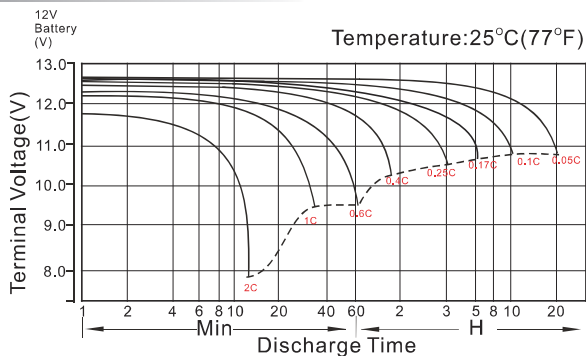
Charge characteristic Curve for standby use



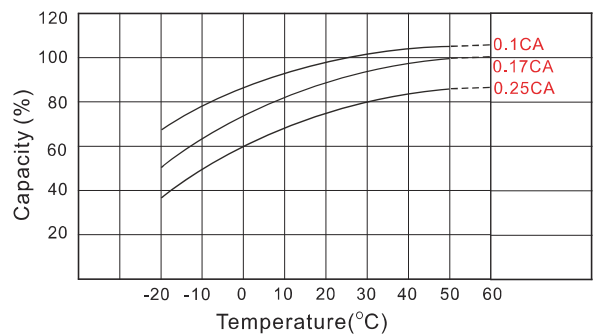
Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity



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