



CA650 16V5.0AH

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	6V(3cells)	Operating Temp Range	Discharge: -15—50℃(5—122 ℉) Charge : 0—40℃(32—104℉) Storage : -15—40℃(5—104 ℉)
Nominal Capacity	5.0AH (20hr,1.75V/cell,25°C/77°F) 4.2AH (5hr,1.75V/cell,25°C/77°F) 3.14AH(1hr,1.60V/cell,25°C/77°F)	Nominal Operating Temp. Range	25±3°C(77±5°F)
Dimension	Length 70±1mm Width 47± 1 mm Container Height 100±2mm Total Height(with Terminal) 106±2mm	Cycle Use	7.2~ 7.4V(25°C/77°F)Temp.Coefficient-15mV/°C Initial Charging Current Less than 1.50A
Weight	840 G ± 3%	Standby Use	6.75 V~6.90 V(25°C/77°F)Temp.Coefficient-10mV/°C No limit on Initial Charging Current
Terminal	F1	Capacity affected by Temperature	40°C(104°F) 103% 25°C(77°F) 100% 0°C(32°F) 86%
Container Material	ABS UL 94 V0	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.
Max. Discharge Current	50A(5S)		
Internal Resistance	Approx 20mΩ		

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

F.V/Time	5min	10min	15min	30min	45min	60min	3h	5h	10h	20h
1.60V/cell	16.0	12.5	8.81	4.71	4.00	3.14	1.30	0.886	0.469	0.260
1.70V/cell	15.4	12.0	8.27	4.53	3.84	3.08	1.28	0.864	0.459	0.255
1.75V/cell	15.1	11.8	8.16	4.45	3.76	3.04	1.25	0.850	0.450	0.250
1.80V/cell	14.8	11.5	7.97	4.37	3.69	3.00	1.23	0.836	0.441	0.245

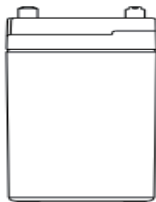
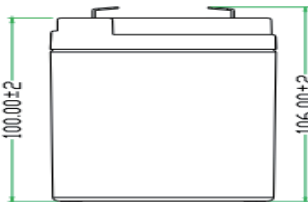
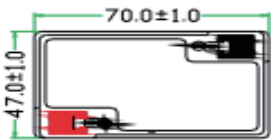
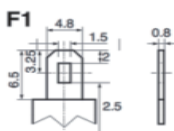
Constant Power Discharge(Watts per cell at 25°C/77 °F)

F.V/Time	5min	10min	15min	30min	45min	60min	3h	5h	10h	20h
1.60V/cell	28.7	22.5	17.2	8.43	7.57	6.23	2.60	1.77	0.936	0.520
1.70V/cell	27.6	21.6	16.8	8.14	7.29	6.19	2.55	1.74	0.921	0.510
1.75V/cell	27.0	21.1	16.5	7.93	7.14	6.13	2.50	1.70	0.900	0.500
1.80V/cell	26.6	20.8	16.3	7.79	7.00	6.06	2.45	1.66	0.879	0.490

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

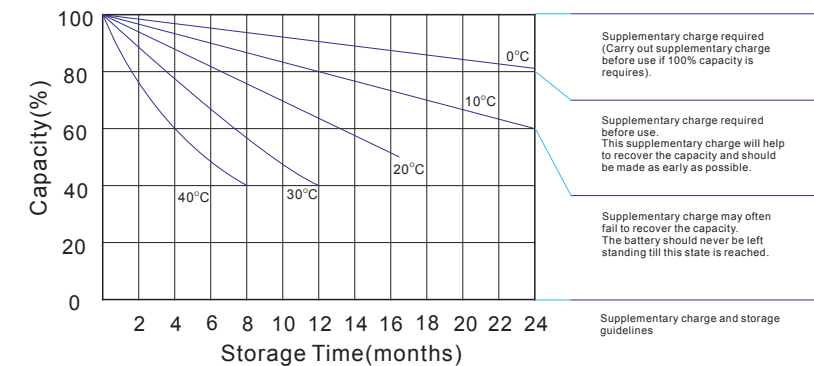
Dimensions
Unit:mm [inches]

Terminal

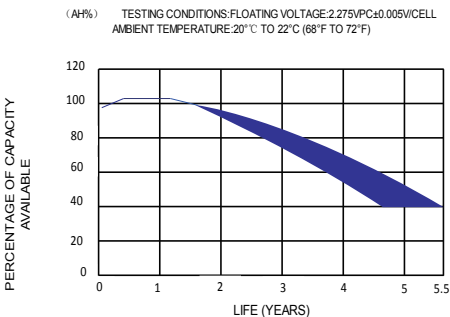


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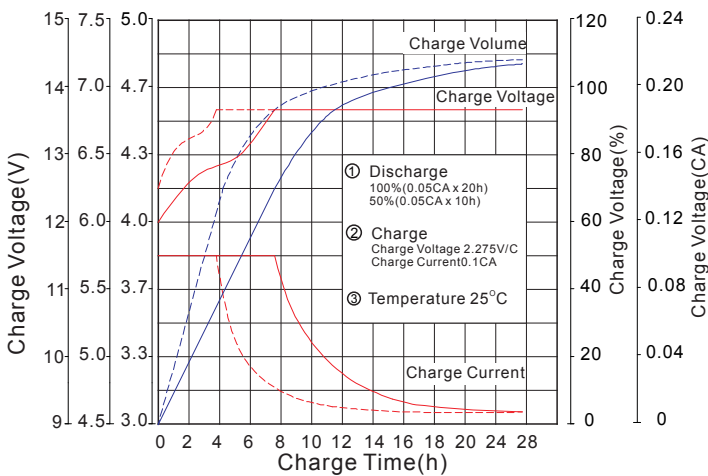
Storage characteristics



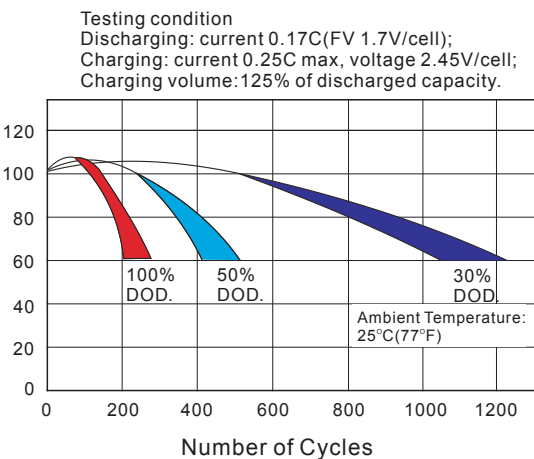
FLOAT SERVICE LIFE



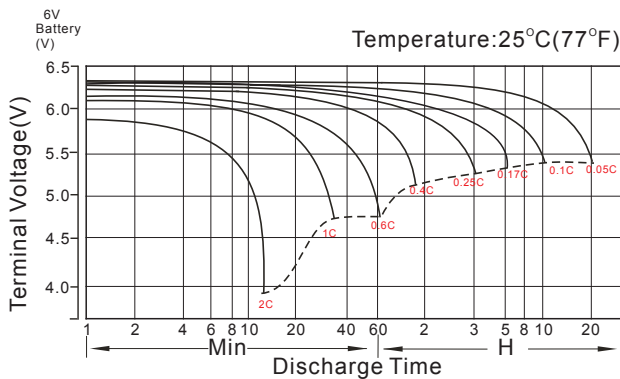
Charge characteristic Curve for standby use



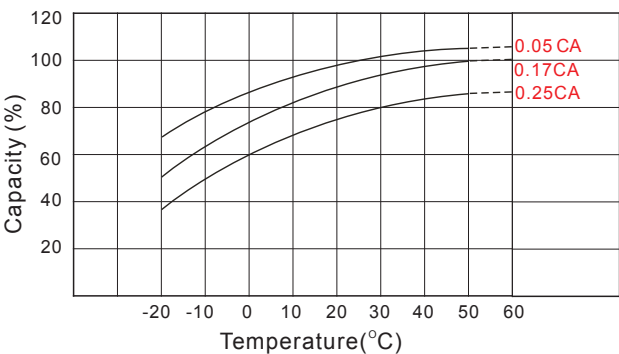
Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity



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