



CA121200 [12V120AH]

Features:

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



Certificate No. 0194-2001-AGC
RGG-UKAS
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) Charge: 0—40°C(32—104°F) Storage: -15—40°C(5—104°F)		
Nominal Capacity	120AH (10hr,1.80V/cell,25°C/77°F)	Nominal Operating Temp. Range	25±3°C(77±5°F)		
	102AH (5hr,1.75V/cell,25°C/77°F)	Cycle Use	14.4~14.8V(25°C/77°F)Temp.Coefficient-30mV/°C Initial Charging Current Less than 36A		
	72AH (1hr,1.60V/cell,25°C/77°F)	Standby Use	13.5V~13.8V(25°C/77°F)Temp.Coefficient-20mV/°C No limit on Initial Charging Current		
Dimension	Length	405±2mm	Capacity affected by Temperature	40°C(104°F)	103%
	Width	172±2mm		25°C(77°F)	100%
	Container Height	208±2mm	0°C(32°F)	86%	
	Total Height(with Terminal)	237±3mm	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.	
Approx Weight	Approx 37.5Kg				
Terminal	T5 or F7				
Container Material	ABS				
Max. Discharge Current	1200A(5S)				
Internal Resistance	Approx 4.5mΩ				

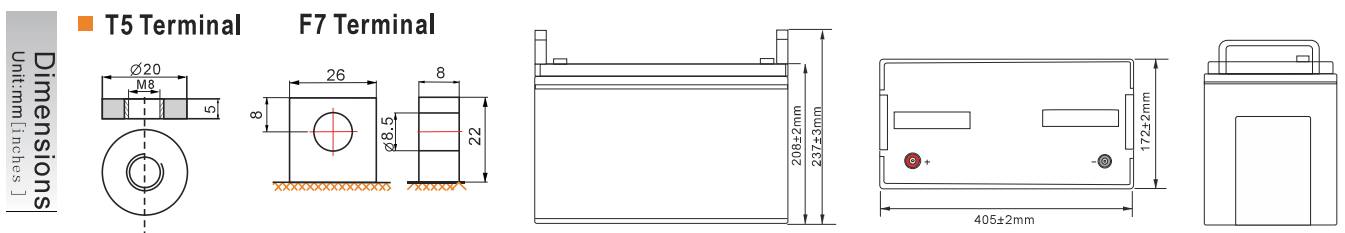
Constant Current Discharge(Amperes at 25°C/77 °F)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	215	175	109	84	68.4	40.0	30.0	20.6	12.1	6.24
1.70V/cell	252	205	118	90	72.6	42.2	31.4	21.4	12.4	6.42
1.60V/cell	282	227	130	97	78.0	44.6	32.9	22.2	12.6	6.60

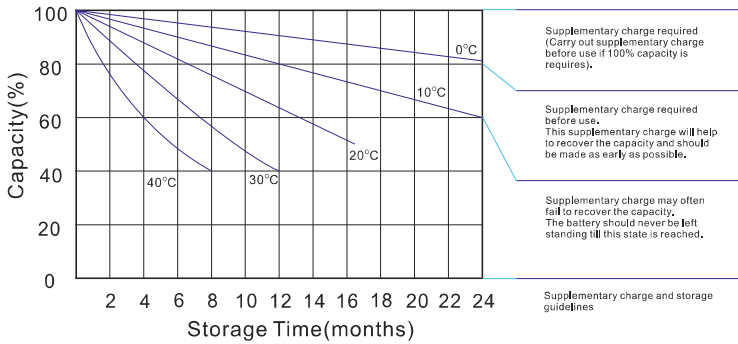
Constant Power Discharge(Watts per cell at 25°C/77 °F)

F.V/Time	10min	15min	30min	45min	1h	2h	3h	5h	10h	20h
1.80V/cell	394	332	205	160	133.2	76.9	58.2	40.8	24.0	12.35
1.70V/cell	444	367	221	172	138.1	80.9	60.0	41.9	24.4	12.67
1.60V/cell	484	397	240	181	147.1	84.2	62.9	43.0	24.6	12.98

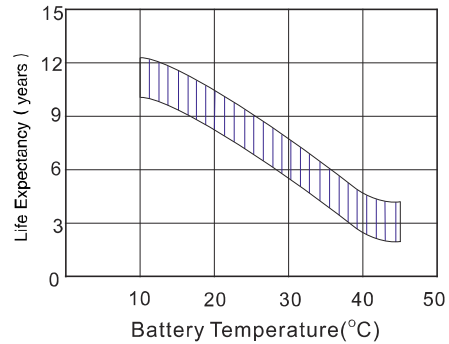
Note: The above characteristics data are average values obtained within three charge/discharge cycles, not the minimum values.



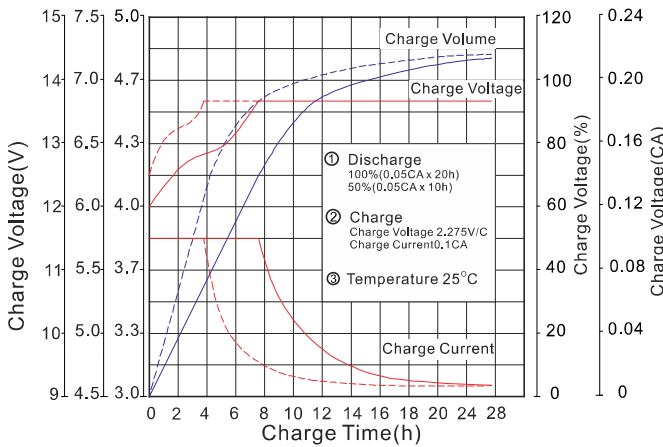
Storage characteristics



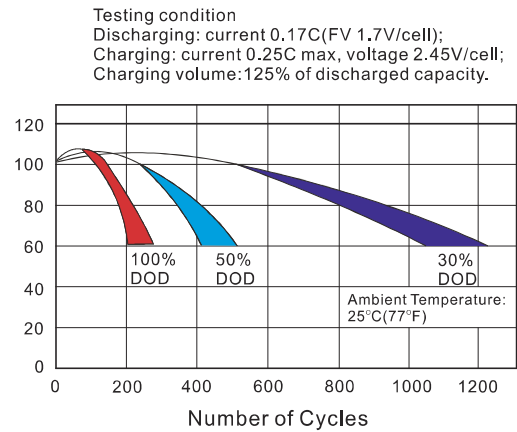
Effect of temperature on long term float life



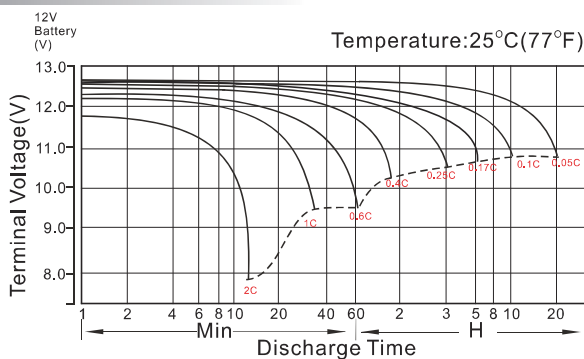
Charge characteristic Curve for standby use



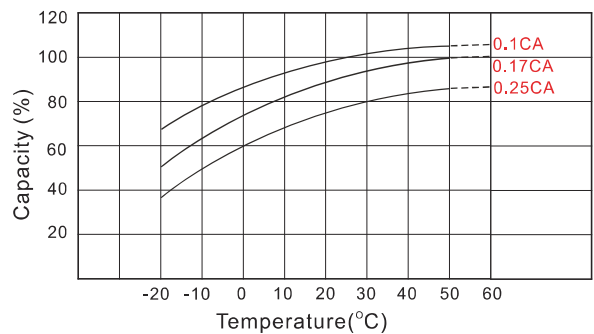
Cycle Life in Relation to Depth of Discharge



Discharge characteristic Curve



Temperature Effects in Relation to Battery Capacity



This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice.