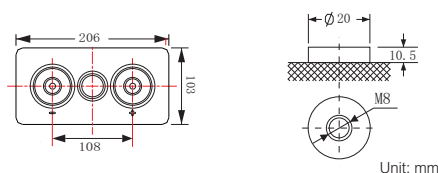
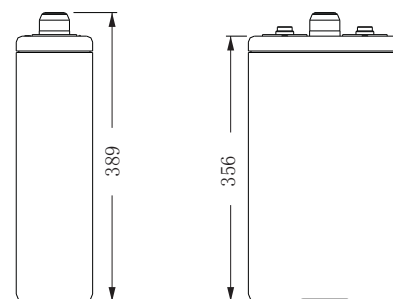


Specifications

Rated Voltage	2V		
Nominal Capacity(C ₁₀ , 1.80V/cell)	100Ah		
Dimension	Length	103 ± 2mm	
	Width	206 ± 2mm	
	Container Height	356 ± 2mm	
	Total Height	389 ± 2mm	
Approx Weight	11.3kg		
Terminal	M8		
Container Material	ABS		
Rated Capacity(25 °C)	100Ah	C10(10A, 1.80V/cell)	
	85Ah	C5(17A, 1.80V/cell)	
	75Ah	C3(25A, 1.80V/cell)	
	50Ah	C1(50A, 1.80V/cell)	
Max. Discharge Current	500A (5s)		
Internal Resistance(25 °C)	Approx 1.20mΩ		
Operating Temp. Range	Discharge	-15~50 °C	
	Charge	-15~50 °C	
	Storage	-20~40 °C	
Nominal Operating Temp. Range	25 ± 5 °C (77 ± °F)		
Max. Charging Current(25 °C)	25.0A		
Charge voltage(25 °C)	Float	2.23~2.25/cell	Temp. Coefficient -3mv/cell/°C
	Equalization	2.30~2.40/cell	-4mv/cell/°C
	Cycle	2.35~2.45/cell	-5mv/cell/°C
Effect of temp. to Capacity	40 °C (104 °F)	105%	
	25 °C (77 °F)	100%	
	0 °C (32 °F)	85%	
Self Discharge	≤ 3%/month@25 °C		



Layout



Unit: mm

General Features

- 20 years design life (25 °C)
- adopt tubular plate with GEL technology
- Gas phase SiO₂ colloidal battery technology
- PF/PVC-SiO₂ separator
- ABS material battery case
- Widely used in communication systems, military fields, power systems, broadcasting and television systems, etc

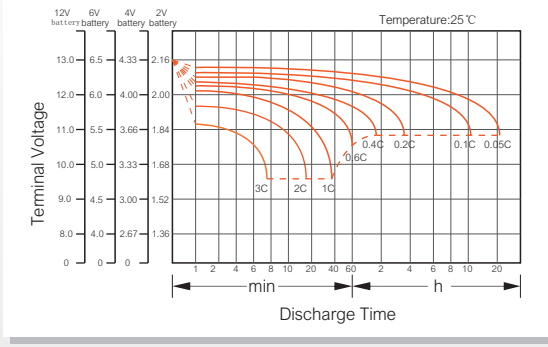
Constant Current Discharge (A)25 °C

F. V/ ime	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	105	82.5	60.0	37.5	27.0	21.5	18.25	16.05	12.95	10.60
1.65V/cell	99.0	78.5	56.5	36.5	26.5	21.0	18.05	15.85	12.85	10.55
1.70V/cell	93.5	75.0	55.5	35.5	26.0	20.8	17.80	15.60	12.70	10.50
1.75V/cell	87.5	71.0	52.0	34.5	25.5	20.5	17.50	15.30	12.45	10.35
1.80V/cell	81.5	66.5	50.0	33.5	25.0	20.0	17.10	14.90	12.15	10.05
1.85V/cell	75.0	60.5	46.5	31.5	24.0	19.5	16.55	14.40	11.80	9.90

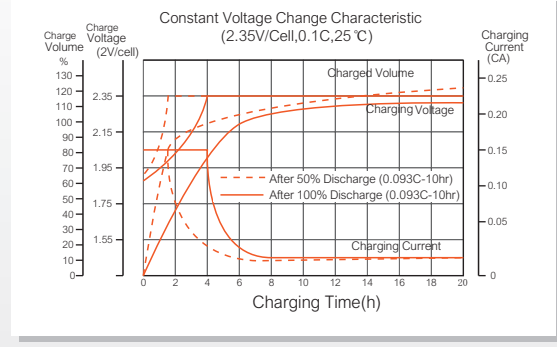
Constant Power Discharge (W/cell)25 °C

F. V/ ime	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V/cell	181.0	145.0	109.5	70.0	51.0	40.75	34.65	30.55	24.75	20.30
1.65V/cell	173.0	137.5	103.0	68.5	50.3	39.95	34.35	30.25	24.60	20.25
1.70V/cell	163.5	132.0	101.5	67.0	49.5	39.85	34.00	29.85	24.40	20.20
1.75V/cell	154.5	126.5	97.0	65.5	48.8	39.25	33.55	29.40	24.00	20.00
1.80V/cell	146.0	121.5	93.0	64.0	48.0	38.45	32.90	28.70	23.45	19.45
1.85V/cell	135.5	112.0	88.5	60.5	46.5	37.85	32.20	28.05	23.00	19.35

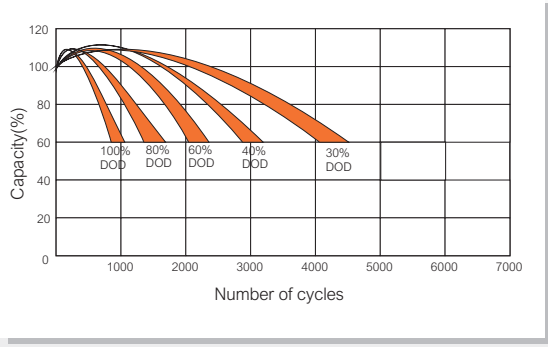
Dicharge Characteristics Curve



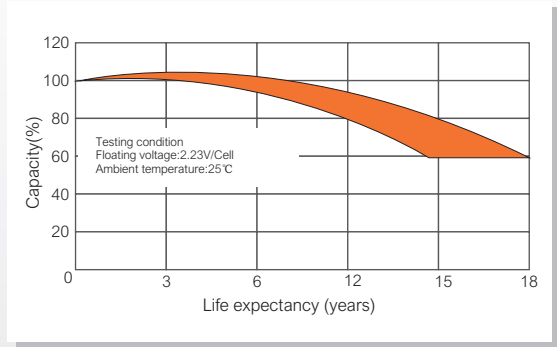
Charging Characteristics Curve



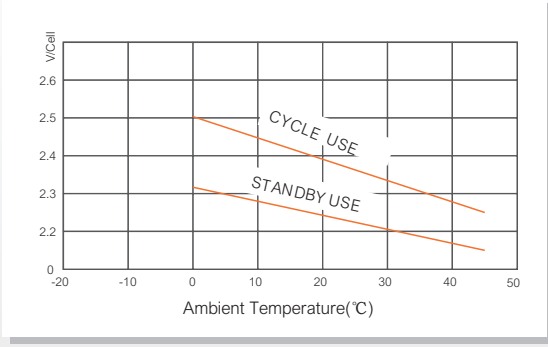
Cycle life of Different DOD



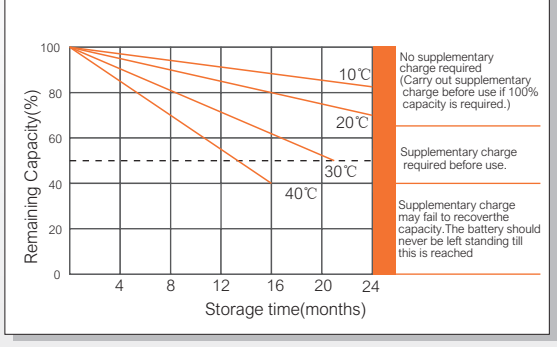
Float charging service life Curve



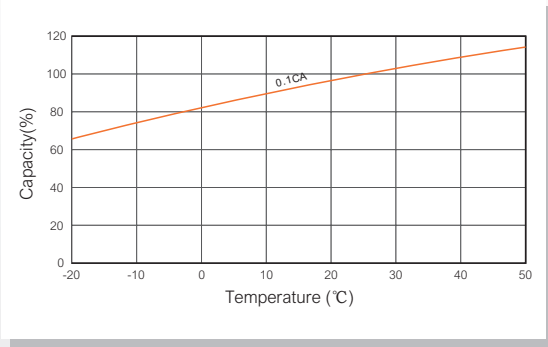
Charging voltage and temperature relationship



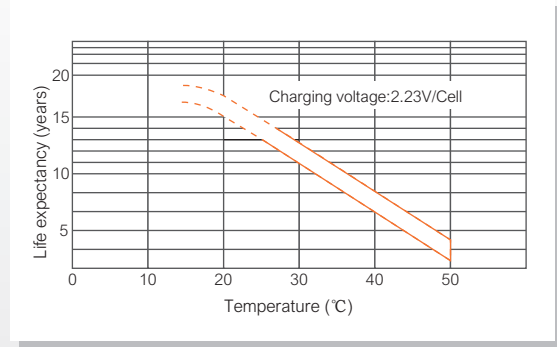
Self-discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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