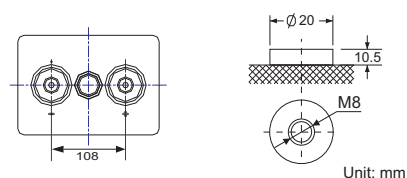
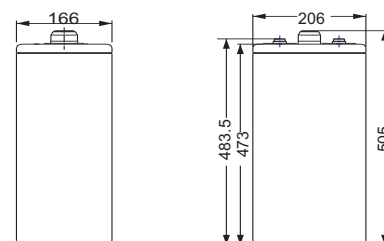


Specifications

Rated Voltage	2V		
Nominal Capacity(C ₁₀ , 1.80V/cell)	500Ah		
Dimension	Length	166 ± 2mm	
	Width	206 ± 2mm	
	Container Height	473 ± 2mm	
	Total Height	505 ± 2mm	
Approx Weight	38.5kg		
Terminal	M8		
Container Material	ABS		
Rated Capacity(25°C)	500Ah	C10(50A, 1.80V/cell)	
	425Ah	C5(85A, 1.80V/cell)	
	375Ah	C3(125A, 1.80V/cell)	
	250Ah	C1(250A, 1.80V/cell)	
Max. Discharge Current	2500A (5s)		
Internal Resistance(25°C)	Approx 0.50mΩ		
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)	125A		
Charge voltage(25°C)	Float	Charge voltage	Temp. Coefficient
		Equalization	-3mv/cell/°C
		Cycle	-4mv/cell/°C
			-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

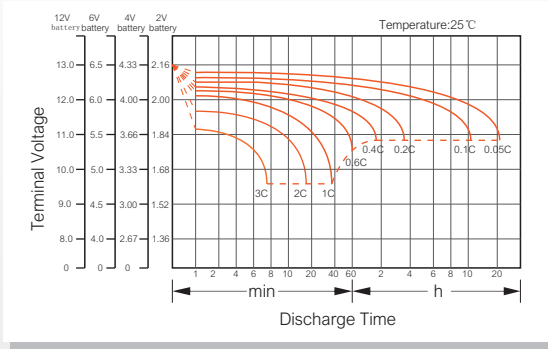
Constant Current Discharge (A)25°C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	520	408	297	186	134	106	90.3	79.4	64.1	52.5
1.65V	490	389	280	181	131	104	89.3	78.5	63.6	52.2
1.70V	463	371	275	176	129	103	88.1	77.2	62.9	52.0
1.75V	433	351	257	171	126	101	86.6	75.7	61.6	51.2
1.80V	403	329	250	166	125	99	85.0	73.8	60.1	50.0
1.85V	371	299	230	156	119	97	81.9	71.3	58.4	49.0

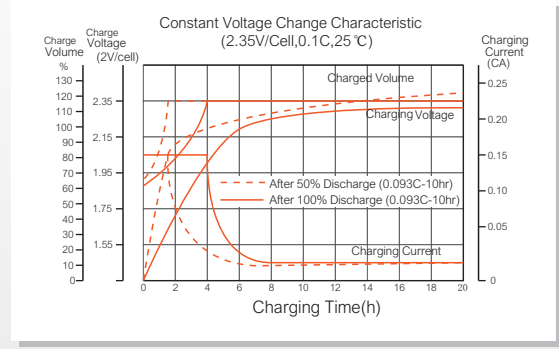
Constant Power Discharge (W/cell)25°C

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	896	718	542	347	252	201.7	171.5	151.2	122.5	100.5
1.65V	856	681	510	339	249	197.8	170.0	149.7	121.8	100.2
1.70V	809	653	502	332	245	197.3	168.3	147.8	120.8	100.0
1.75V	765	626	480	324	241	194.3	166.1	145.5	118.8	99.0
1.80V	723	601	460	317	238	190.3	162.9	142.1	116.1	96.3
1.85V	671	554	438	299	230	187.4	159.4	138.8	113.9	95.8

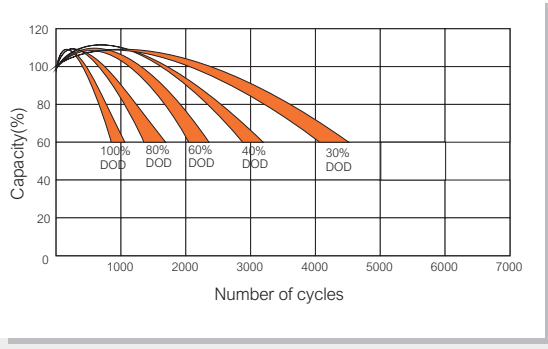
Dicharge Characteristics Curve



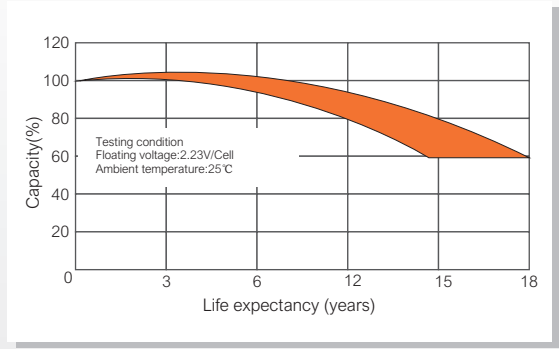
Charging Characteristics Curve



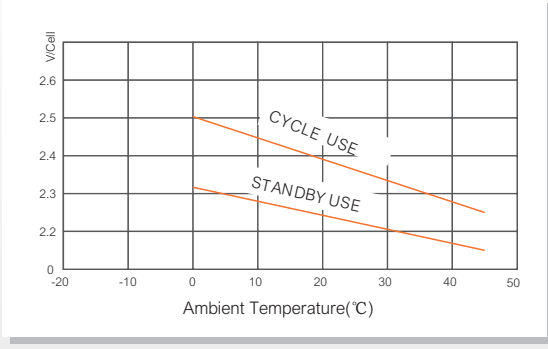
Cycle life of Different DOD



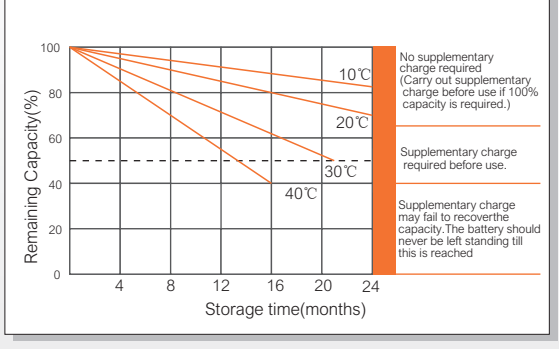
Float charging service life Curve



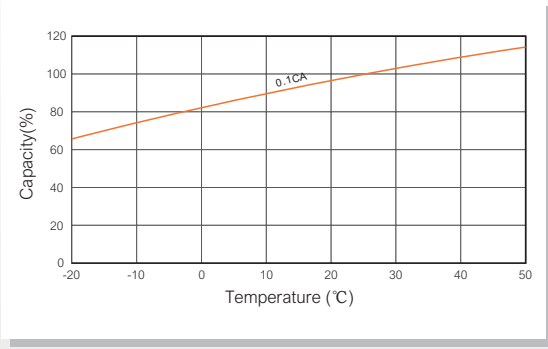
Charging voltage and temperature relationship



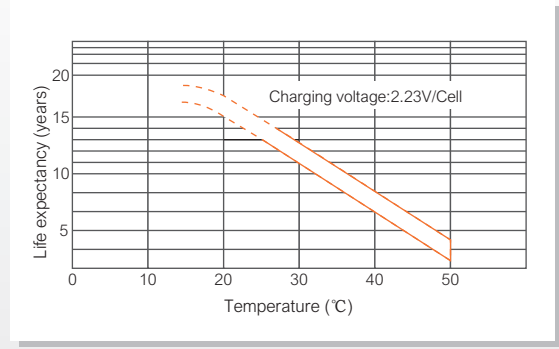
Self-discharge Characteristics



Temperature Effects in Relation to Battery Capacity



Temperature Effects on Long Term Float Life



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