FirstPower Technology Co., Ltd.

Specifications

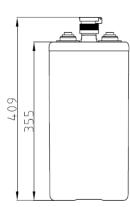
specifications										
Nomii	nal V	/oltage	2 V							
Consolit	10	HR(1.80V)	100 Ah							
Capacity (20℃)	31	HR(1.75V)	76.5Ah							
(200)	11	HR(1.60V)	56.0Ah							
Battery		Dry	8.5kg (18.7lbs)±5%							
Weigh		Wet	13.5kg (29.7lbs)±5%							
Acid Weig	ht (c	l=1.24kg/l)	Approx.5kg (11.0lbs)							
Terminal	type	/material	T10 / Copper							
		istance ed, 25°C)	Approx. 2.5 mΩ							
Self-dischar		1 month	Remaining Capacity: 86%(20°C)							
	al op pera	erating ture	20°C±5°C(68°F±9°F)							
Operating	g	Discharge	-15°C~50°C(5°F~122°F)							
temperatu		Charge	$10^{\circ}C \sim 45^{\circ}C(50^{\circ}F \sim 113^{\circ}F)$							
range		Storage	10°C~30°C(50°F~86°F)							
		Constant current	Charge the battery at 0.05 C_{10} for 72h.							
Initial charging		Constant voltage	Charge the battery at $0.1 C_{10}$ to 2.35v/cell; then Charge the battery with 2.35v/cell until the whole charge time up to 100h.							
Mark of Fully charged		Constant current	The battery voltage and density of electrolyte remain stable over 2h at the end of charging, and strong bubbles generated within the electrolyte							
		Constant voltage	The charging current and density of electrolyte kept constant for more than 3h at the end of the charge; and the charging current is about 0.002~0.005 C10 amp.							
Supplementary charge			Charge the battery at 0.05 C_{10} to fully charged.							
Equalizing charging			Charge the battery with 2.40v/cell for 48h.							
Dottom	Float charging		Charge the battery with 2.23V (25°C); Equalizing charging the battery when the abnormal occurs							
Battery operation		Charge&	Equalizing charging the battery							
		discharge Backup	after discharged and per 3months Supplementary charge the battery per 3 or 6 months.							
Maximum	char	ging current	25.0A(0.25C ₁₀)							
		ge current	500A(5 sec.)							
		ycle life	1600@80% DOD (30°C)							
			20 years(20°C)							
Designed floating life 20 years(20°C)										

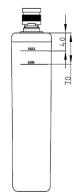
CFPS2100(2V100Ah)

CHARACTERISTICS:

- Tubular Positive Plate;
- ◆ Flooded Battery;
- ◆ Porous Rubber and Porous PVC Separator
- Transparent Container.

Dimensions









Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	78.0	54.0	33.0	25.7	20.6	18.1	15.4	11.8	10.1	5.45	4.76		
1.75V	76.0	52.5	32.5	25.5	20.5	18.0	15.3	11.7	10.1	5.45	4.73		
1.80V	73.0	51.0	31.7	24.7	19.9	17.5	14.8	11.3	10.0	5.40	4.70	2.41	
1.85V	69.0	48.0	29.8	23.2	18.7	16.5	13.9	10.6	9.50	5.15	4.47	2.41	1.00

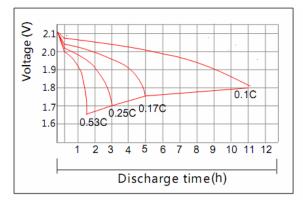
Constant Power Discharge Characteristics (Watt, 25°C)

			0			. ,	,						
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	146	102	63.5	50.5	40.5	35.7	30.4	23.3	20.2	10.9	9.55		
1.75V	142	100	62.5	50.0	40.2	35.5	30.1	23.2	20.0	10.9	9.50		
1.80V	137	97.0	61.0	48.5	39.0	34.4	29.2	22.5	19.9	10.8	9.45	4.89	
1.85V	128	90.0	57.0	45.1	36.3	32.0	27.2	20.9	18.5	10.0	9.00	4.89	2.04

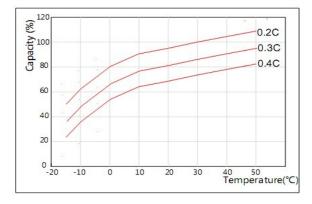
Note: The above characteristics data can be obtained within three charge/discharge cycles.

CFPS2100(2V100Ah)

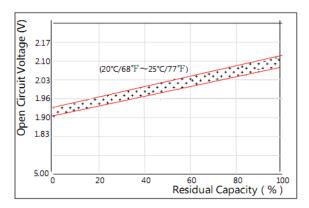
Discharge Characteristics(25°C)



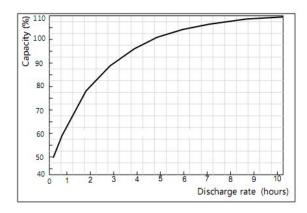
Effect of Temperature on Capacity



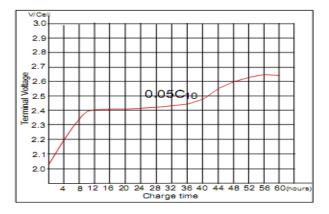
The Relationship for Open Circuit Voltage and Residual Capacity $(25^{\circ}C)$



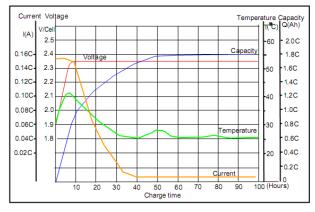
Effect of Discharge rate on Capacity



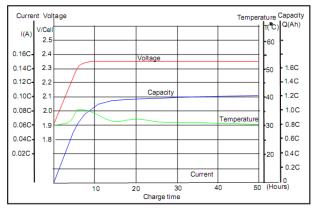
Initial Charging (CC)Characteristics(25°C)



Initial Charging (CV)Characteristics



Supplementary charge (CV) Characteristics



Cycle Life on D.O.D(25℃)

