

CFPS23000(2V3000Ah)

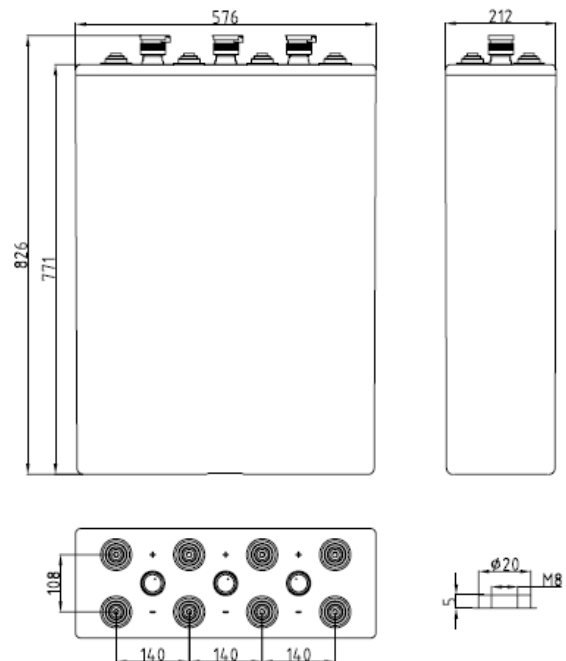
Specifications

Nominal Voltage		2 V
Capacity (20°C)	10HR(1.80V)	3000 Ah
	3HR(1.75V)	2295Ah
	1HR(1.60V)	1680Ah
Battery Weigh	Dry	157kg (346.2lbs) ± 5%
	Wet	220kg (485.1lbs) ± 5%
Acid Weight (d=1.24kg/l)		Approx.63kg (138.9lbs)
Terminal type /material		T10 / Copper
Internal resistance (Fully charged, 25°C)		Approx. 0.20 mΩ
Self-discharge	1 month	Remaining Capacity: 86%(20°C)
Nominal operating temperature		20°C±5°C (68°F±9°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	10°C ~ 45°C (50°F ~ 113°F)
	Storage	10°C ~ 30°C (50°F ~ 86°F)
Initial charging	Constant current	Charge the battery at 0.05 C ₁₀ for 72h.
	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 C ₁₀ 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.
Battery operation	Float charging	Charge the battery with 2.23V (25°C); Equalizing charging the battery when the abnormal occurs
	Charge& discharge	Equalizing charging the battery after discharged and per 3months
	Backup	Supplementary charge the battery per 3 or 6 months.
Maximum charging current		750A(0.25C ₁₀)
Max. discharge current		15000A(5 sec.)
Designed cycle life		1600@80% DOD (30°C)
Designed floating life		20 years(20°C)

CHARACTERISTICS:

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

Dimensions



CFPS23000

Constant Current Discharge Characteristics (A, 25°C)

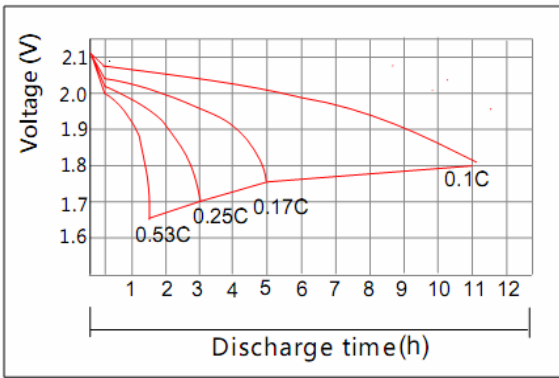
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	2340	1620	990	771	618	543	462	354	303	163	143	----	----
1.75V	2280	1572	975	765	615	540	459	351	303	163	142	----	----
1.80V	2196	1536	951	741	597	525	444	339	300	162	142	72.3	----
1.85V	2076	1440	894	696	561	495	417	318	286	155	134	72.3	30.0

Constant Power Discharge Characteristics (Watt, 25°C)

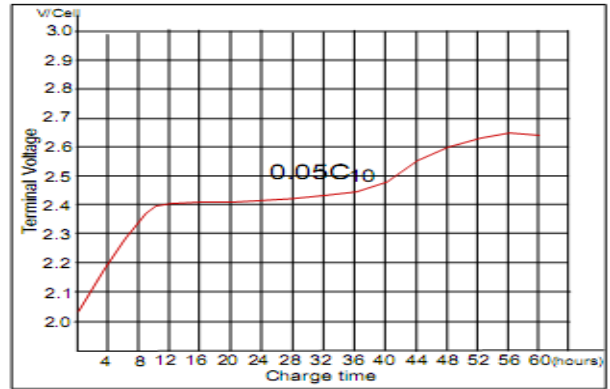
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	4368	3060	1908	1512	1212	1072	912	700	606	328	287	----	----
1.75V	4260	3000	1872	1500	1212	1066	904	696	600	328	286	----	----
1.80V	4116	2916	1836	1452	1170	1032	876	676	598	324	283	146	----
1.85V	3828	2700	1716	1356	1090	960	816	628	556	300	270	146	61.2

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

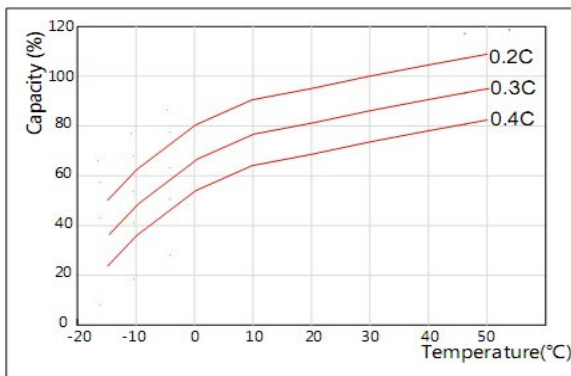
Discharge Characteristics(25°C)



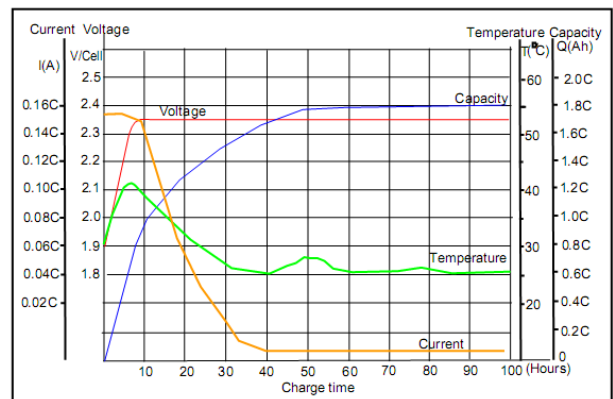
Initial Charging (CC) Characteristics(25°C)



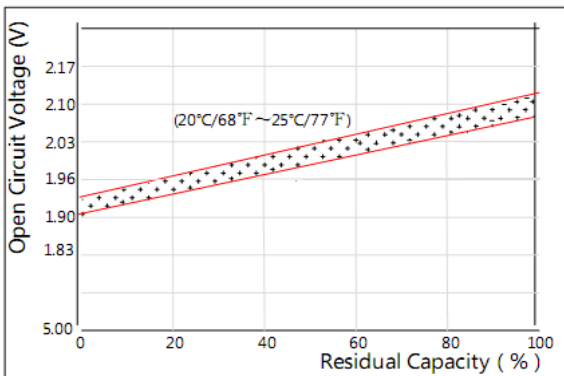
Effect of Temperature on Capacity



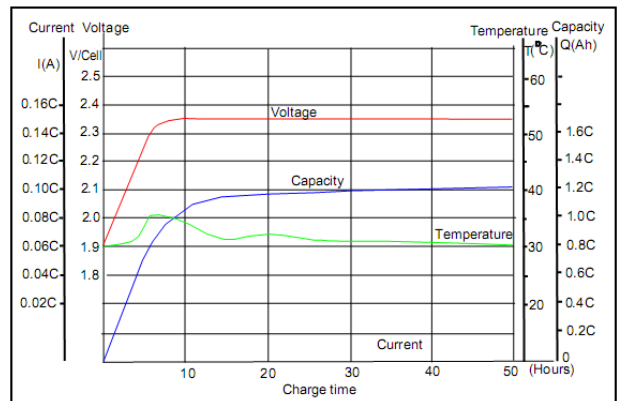
Initial Charging (CV) Characteristics



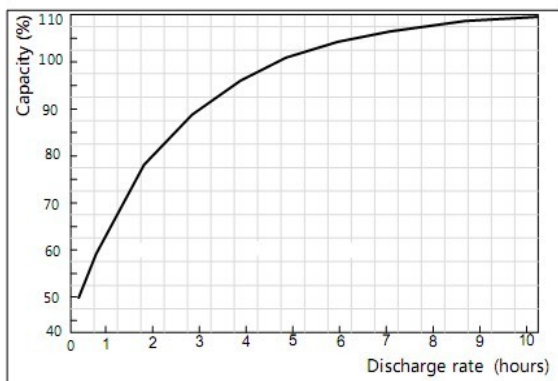
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Supplementary charge (CV) Characteristics



Effect of Discharge rate on Capacity



Cycle Life on D.O.D(25°C)

