

# CFPS22000(2V2000Ah)

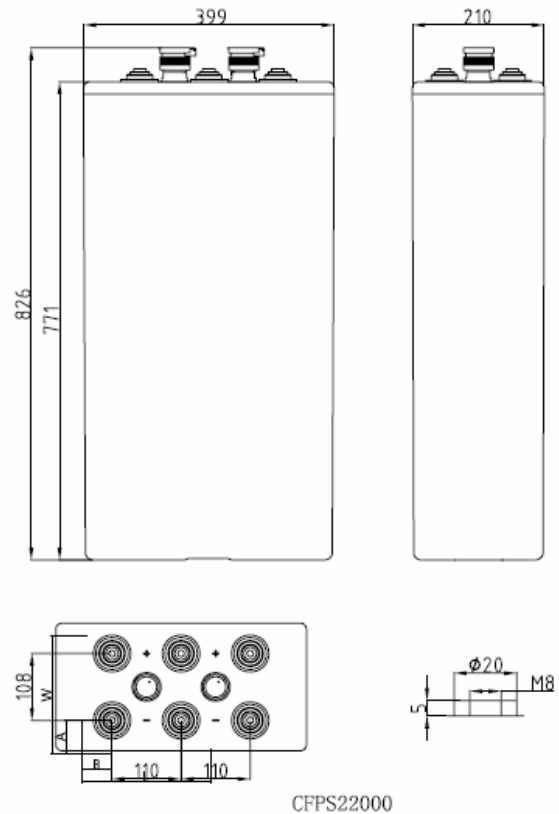
## Specifications

Nominal Voltage		2 V
Capacity (20°C)	10HR(1.80V)	2000 Ah
	3HR(1.75V)	1530Ah
	1HR(1.60V)	1120Ah
Battery Weigh	Dry	108kg (238.1lbs)±5%
	Wet	150kg (330.8lbs)±5%
Acid Weight (d=1.24kg/l)		Approx.10kg (22.0lbs)
Terminal type /material		T10 / Copper
Internal resistance (Fully charged, 25°C)		Approx. 0.3 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 <sub>10</sub> for 72h.
	Constant voltage	Charge the battery at 0.1 C <sub>10</sub> 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 <sub>10</sub> amp.
Supplementary charge		Charge the battery at 0.05 C <sub>10</sub> 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		500A(0.25C <sub>10</sub> )
Max. discharge current		10000A(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



## Constant Current Discharge Characteristics (A, 25°C)

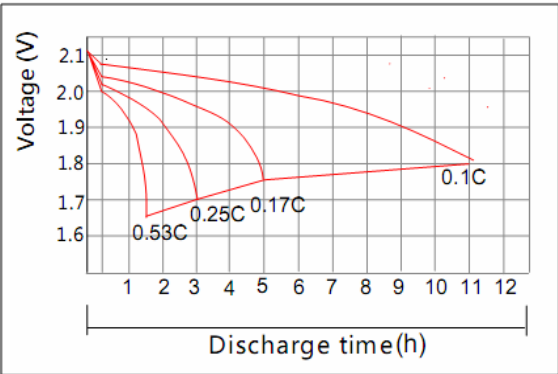
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	1560	1080	660	514	412	362	308	236	202	109	95.2	----	----
1.75V	1520	1048	650	510	410	360	306	234	202	109	94.4	----	----
1.80V	1464	1024	634	494	398	350	296	226	200	108	94.4	48.2	----
1.85V	1384	960	596	464	374	330	278	212	190	103	89.6	48.2	20.0

## Constant Power Discharge Characteristics (Watt, 25°C)

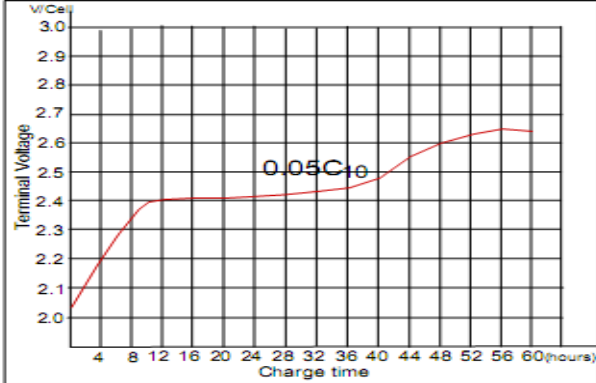
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	2912	2040	1272	1008	808	714	608	466	404	218	191	----	----
1.75V	2840	2000	1248	1000	808	710	602	464	400	218	190	----	----
1.80V	2744	1944	1224	968	780	688	584	450	398	216	189	97.6	----
1.85V	2552	1800	1144	904	726	640	544	418	370	200	180	97.6	40.8

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

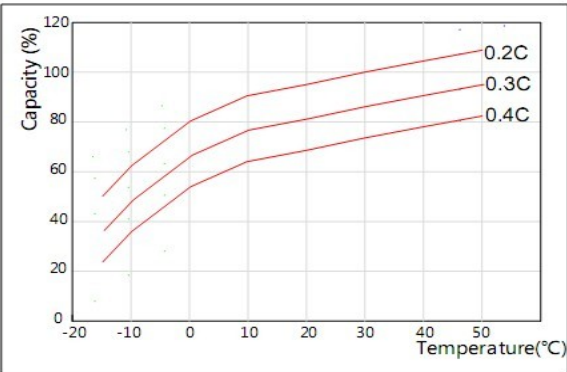
**Discharge Characteristics(25°C)**



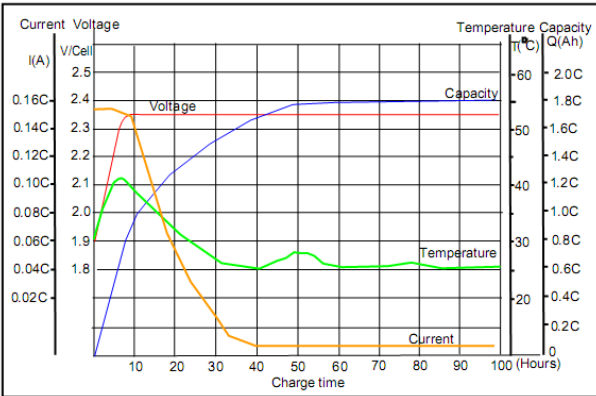
**Initial Charging (CC) Characteristics(25°C)**



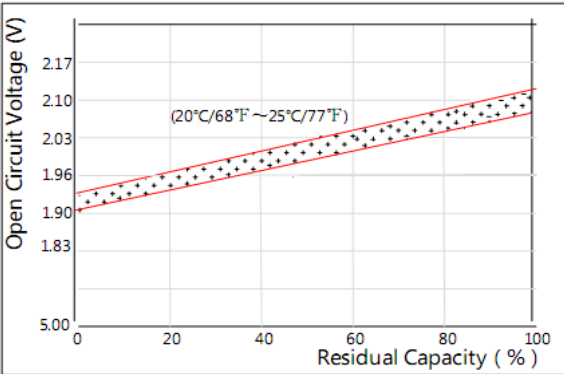
**Effect of Temperature on Capacity**



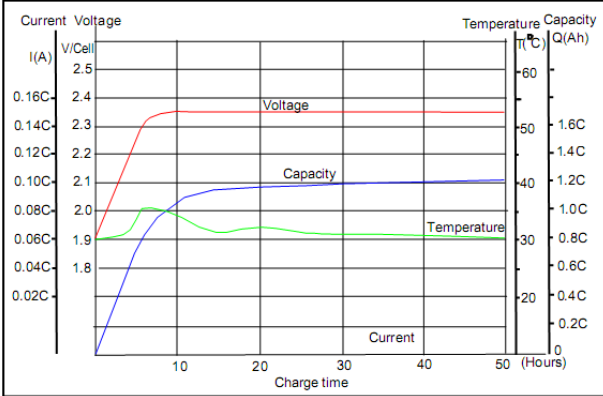
**Initial Charging (CV) Characteristics**



**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)**

