

# CFPS2800(2V800Ah)

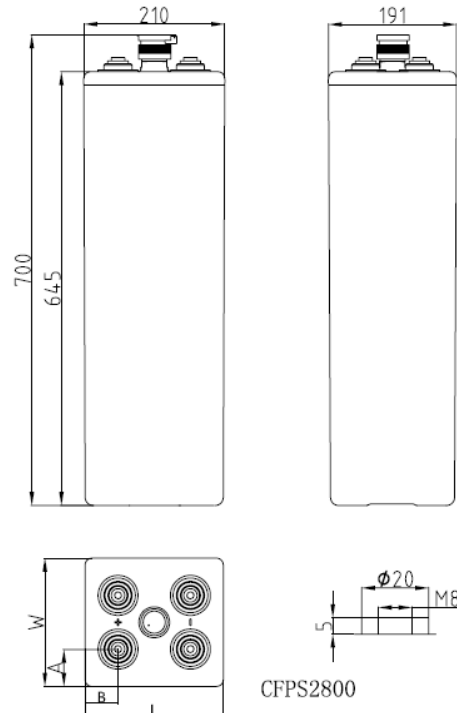
## Specifications

Nominal Voltage		2 V
Capacity (20°C)	10HR(1.80V)	800 Ah
	3HR(1.75V)	612Ah
	1HR(1.60V)	448Ah
Battery Weigh	Dry	44kg (97.0lbs) ± 5%
	Wet	60kg (132.3lbs) ± 5%
Acid Weight (d=1.24kg/l)		Approx.16kg (35.3lbs)
Terminal type /material		T10 / Copper
Internal resistance (Fully charged, 25°C)		Approx. 0.50 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		200A(0.25C <sub>10</sub> )
Max. discharge current		4000A(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)

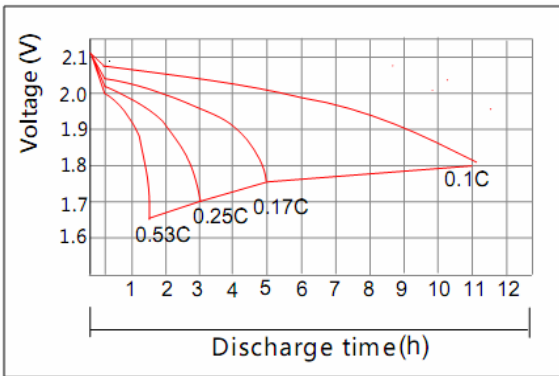
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	624	432	264	206	165	145	123	94.4	80.8	43.5	38.1	----	----
1.75V	608	419	260	204	164	144	122	93.6	80.8	43.5	37.8	----	----
1.80V	586	410	254	198	159	140	118	90.4	80.0	43.2	37.8	19.3	----
1.85V	554	384	238	186	150	132	111	84.8	76.2	41.3	35.8	19.3	8.00

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

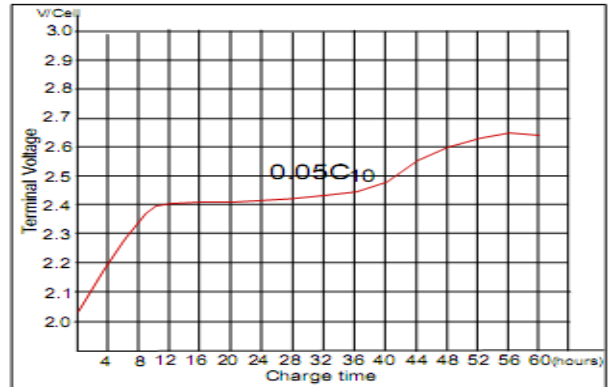
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	1165	816	509	403	323	286	243	186	162	87.2	76.5	----	----
1.75V	1136	800	499	400	323	284	241	186	160	87.2	76.2	----	----
1.80V	1098	778	490	387	312	275	234	180	159	86.4	75.5	39.0	----
1.85V	1021	720	458	362	290	256	218	167	148	80.0	72.0	39.0	16.3

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

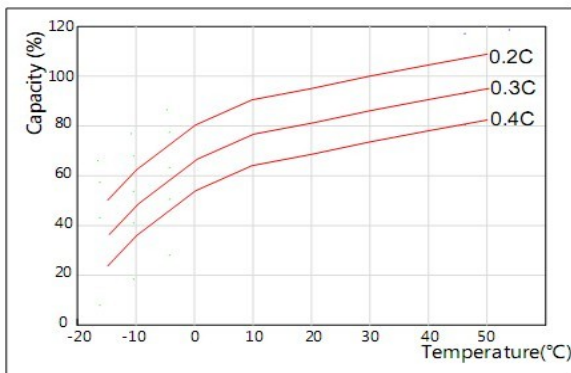
Discharge Characteristics(25°C)



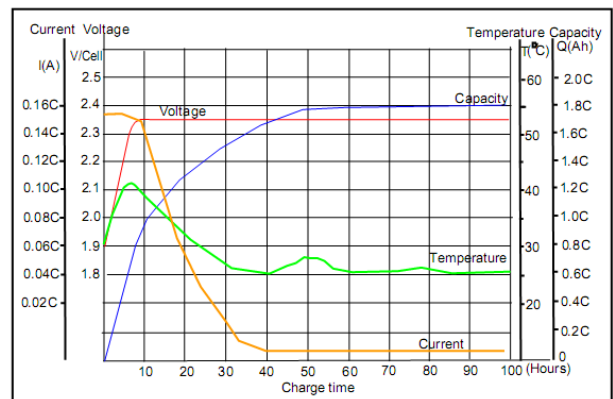
Initial Charging (CC) Characteristics(25°C)



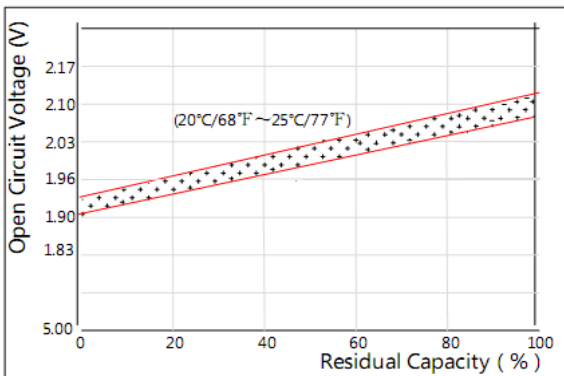
Effect of Temperature on Capacity



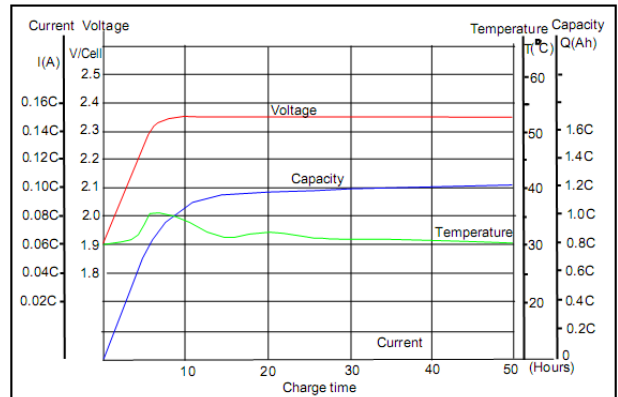
Initial Charging (CV) Characteristics



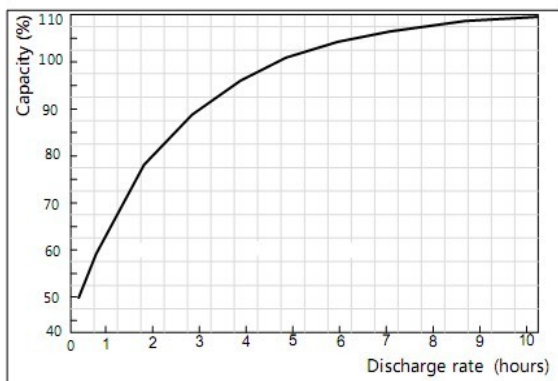
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Supplementary charge (CV) Characteristics



Effect of Discharge rate on Capacity



Cycle Life on D.O.D(25°C)

