

CFPS22500(2V2500Ah)

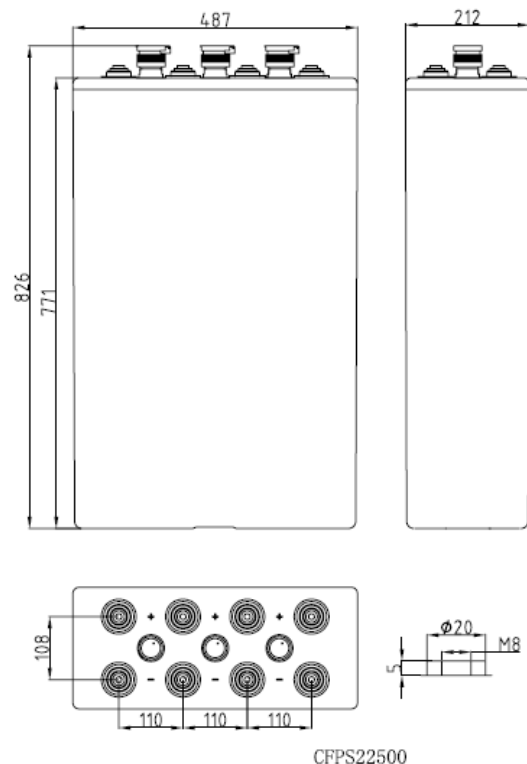
Specifications

Nominal Voltage		2 V
Capacity (20°C)	10HR(1.80V)	2500 Ah
	3HR(1.75V)	1912Ah
	1HR(1.60V)	1400Ah
Battery Weigh	Dry	130kg (286.7lbs)±5%
	Wet	183kg (403.5lbs)±5%
Acid Weight (d=1.24kg/l)		Approx.53kg (116.9lbs)
Terminal type /material		T10 / Copper
Internal resistance (Fully charged, 25°C)		Approx. 0.25 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		625A(0.25C ₁₀)
Max. discharge current		12500A(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)

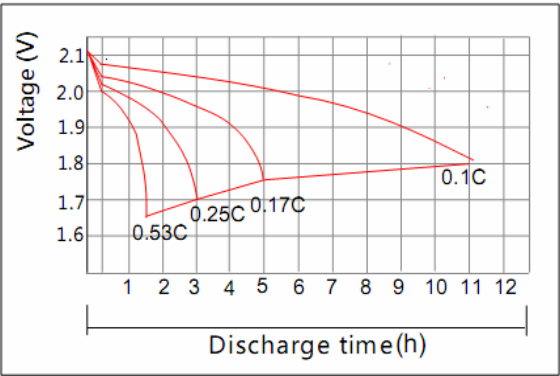
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	1950	1350	825	645	515	453	385	295	253	136	119	----	----
1.75V	1900	1310	815	640	515	450	383	293	253	136	118	----	----
1.80V	1830	1280	795	620	498	438	370	283	250	135	118	60.5	----
1.85V	1730	1200	745	580	468	413	348	265	238	129	112	60.5	25.0

Constant Power Discharge Characteristics (Watt, 25°C)

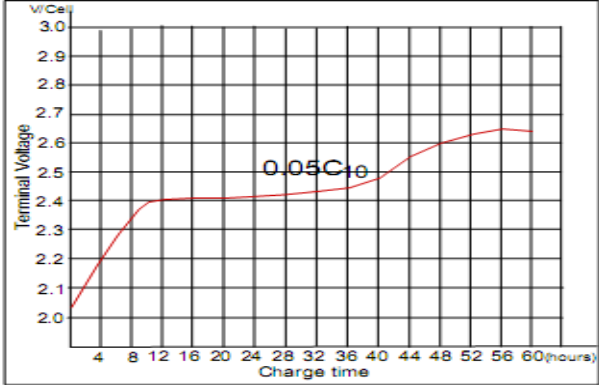
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	3640	2550	1590	1260	1010	895	760	585	505	273	239	----	----
1.75V	3550	2500	1560	1250	1010	890	755	580	500	273	238	----	----
1.80V	3430	2430	1530	1210	975	860	730	565	498	270	236	122	----
1.85V	3190	2250	1430	1130	910	800	680	525	463	250	225	122	51.0

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

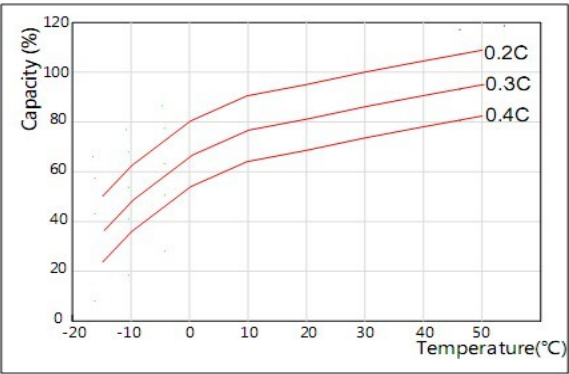
Discharge Characteristics(25°C)



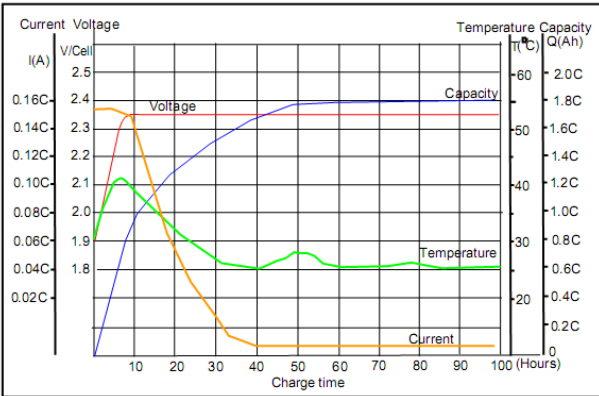
Initial Charging (CC) Characteristics(25°C)



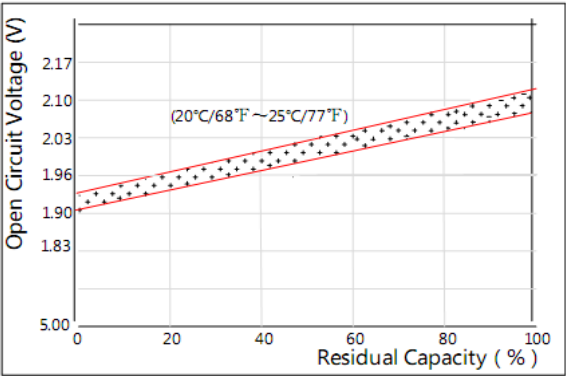
Effect of Temperature on Capacity



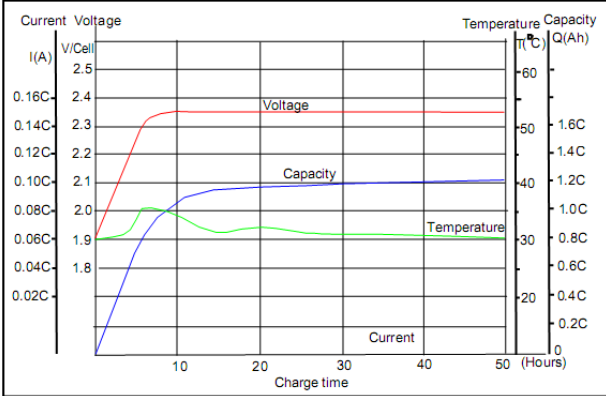
Initial Charging (CV) Characteristics



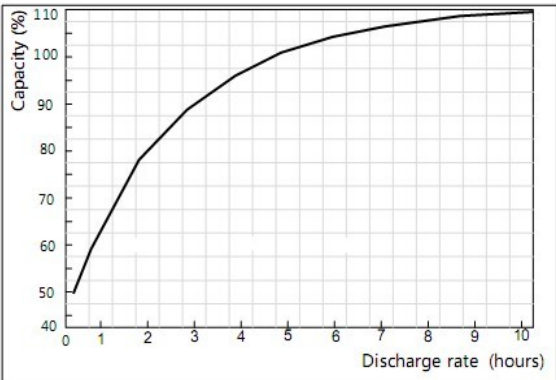
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Supplementary charge (CV) Characteristics



Effect of Discharge rate on Capacity



Cycle Life on D.O.D(25°C)

