

CFPS21200(2V1200Ah)

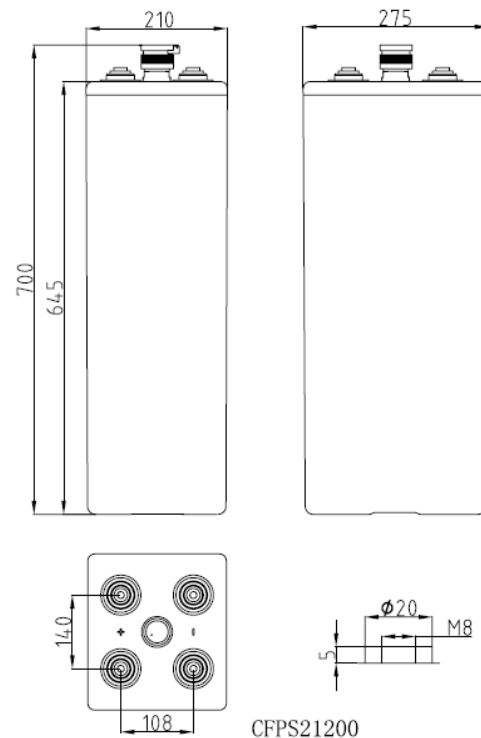
Specifications

Nominal Voltage		2 V
Capacity (20°C)	10HR(1.80V)	1200Ah
	3HR(1.75V)	920 Ah
	1HR(1.60V)	672Ah
Battery Weigh	Dry	62kg (136.7lbs)±5%
	Wet	86kg (189.6lbs)±5%
Acid Weight (d=1.24kg/l)		Approx.24kg (52.8lbs)
Terminal type /material		T10 / Copper
Internal resistance (Fully charged, 25°C)		Approx. 0.35 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		300A(0.25C ₁₀)
Max. discharge current		6000A(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)

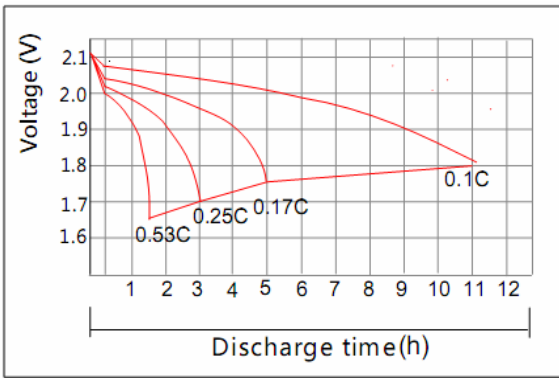
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	936	648	396	308	247	217	185	142	121	65.6	57.2	----	----
1.75V	912	632	390	306	246	216	184	140	121	65.6	56.8	----	----
1.80V	880	612	380	296	239	210	178	136	120	64.8	56.4	28.9	----
1.85V	832	576	358	278	224	198	167	127	114	62.0	53.6	28.9	12.0

Constant Power Discharge Characteristics (Watt, 25°C)

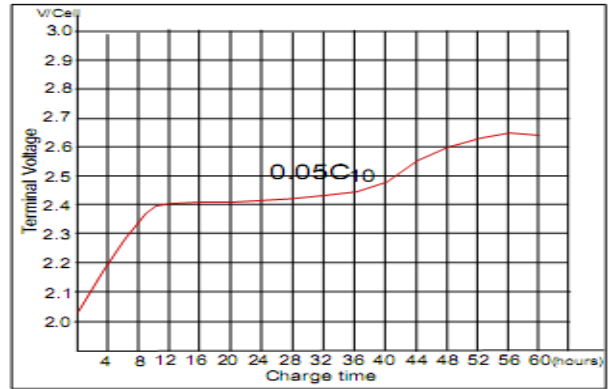
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	1748	1224	764	608	488	428	365	280	242	131	115	----	----
1.75V	1704	1200	752	600	484	428	361	278	240	131	114	----	----
1.80V	1648	1164	732	584	468	412	350	270	239	130	114	58.8	----
1.85V	1532	1080	684	540	436	384	326	251	222	120	108	58.8	24.5

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

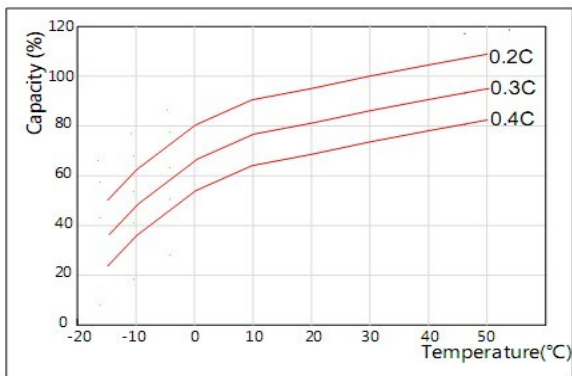
Discharge Characteristics(25°C)



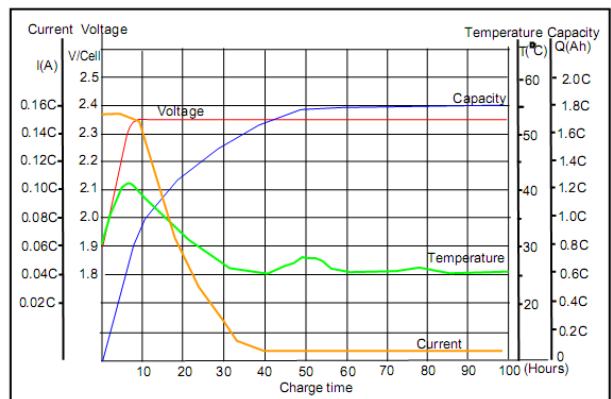
Initial Charging (CC) Characteristics(25°C)



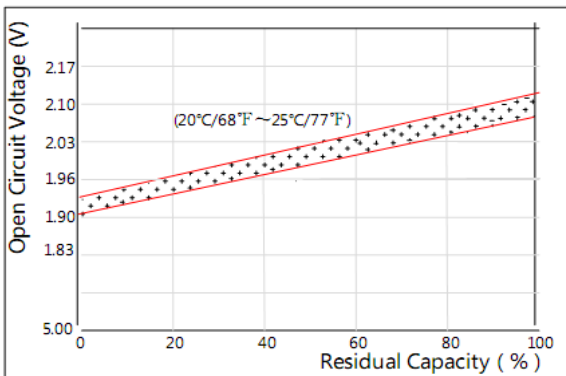
Effect of Temperature on Capacity



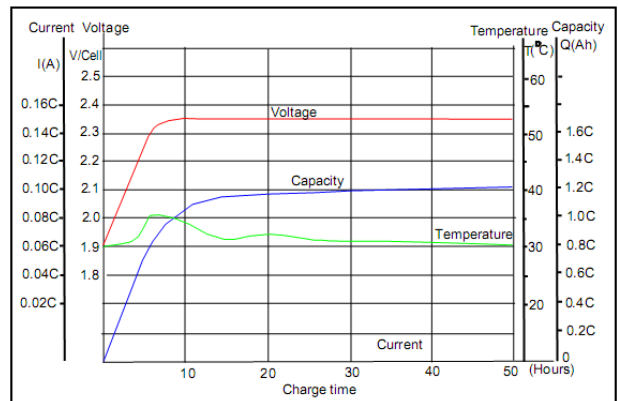
Initial Charging (CV) Characteristics



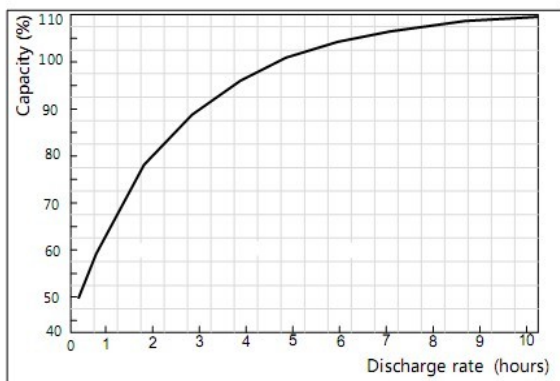
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Supplementary charge (CV) Characteristics



Effect of Discharge rate on Capacity



Cycle Life on D.O.D(25°C)

