

CFPS21000(2V1000Ah)

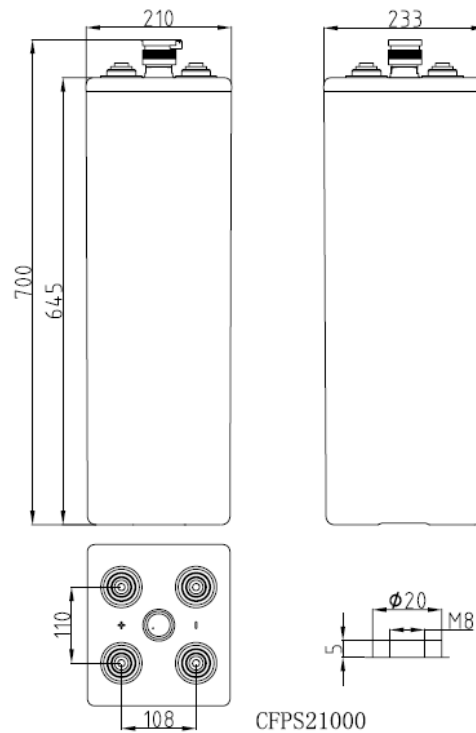
Specifications

Nominal Voltage		2 V
Capacity (20°C)	10HR(1.80V)	1000 Ah
	3HR(1.75V)	765Ah
	1HR(1.60V)	560Ah
Battery Weigh	Dry	52kg (114.7lbs) ± 5%
	Wet	72kg (158.8lbs) ± 5%
Acid Weight (d=1.24kg/l)		Approx.10kg (22.0lbs)
Terminal type /material		T10 / Copper
Internal resistance (Fully charged, 25°C)		Approx. 0.45 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		250A(0.25C ₁₀)
Max. discharge current		5000A(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



CFPS21000

Constant Current Discharge Characteristics (A, 25°C)

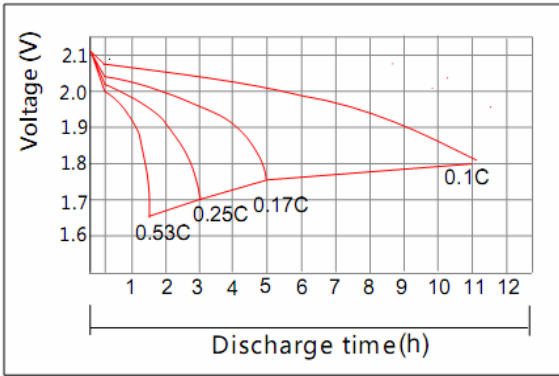
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	780	540	330	257	206	181	154	118	101	54.4	47.6	----	----
1.75V	760	524	325	255	205	180	153	117	101	54.4	47.2	----	----
1.80V	732	512	317	247	199	175	148	113	100	54.0	47.2	24.1	----
1.85V	692	480	298	232	187	165	139	106	95.2	51.6	44.8	24.1	10.0

Constant Power Discharge Characteristics (Watt, 25°C)

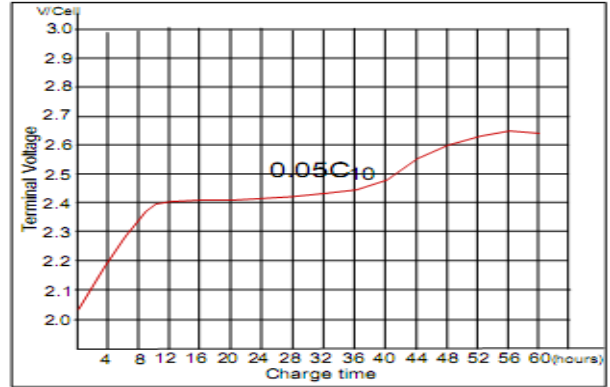
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	1456	1020	636	504	404	357	304	233	202	109	95.6	----	----
1.75V	1420	1000	624	500	404	355	301	232	200	109	95.2	----	----
1.80V	1372	972	612	484	390	344	292	225	199	108	94.4	48.8	----
1.85V	1276	900	572	452	363	320	272	209	185	100	90.0	48.8	20.4

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

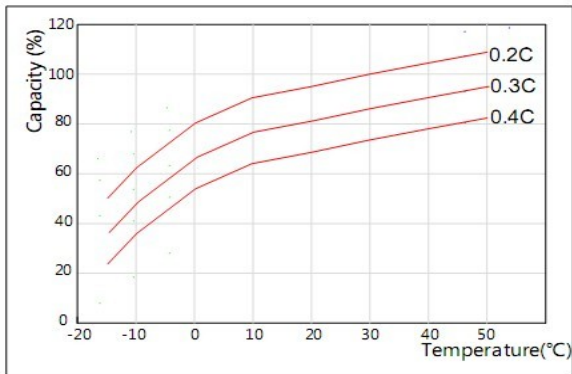
Discharge Characteristics(25°C)



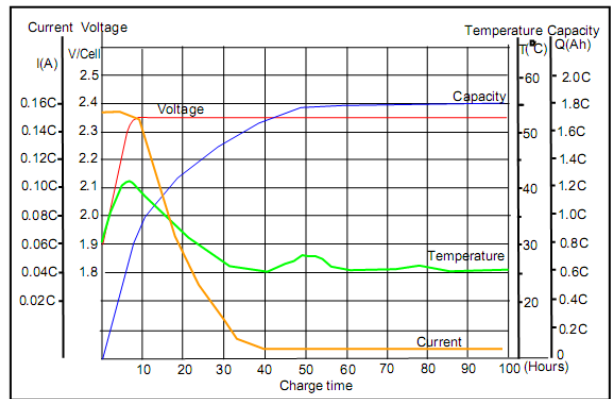
Initial Charging (CC) Characteristics(25°C)



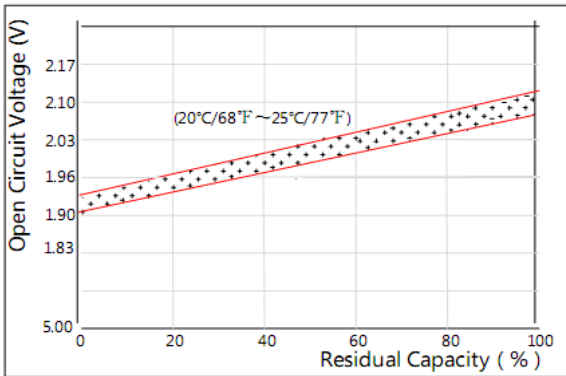
Effect of Temperature on Capacity



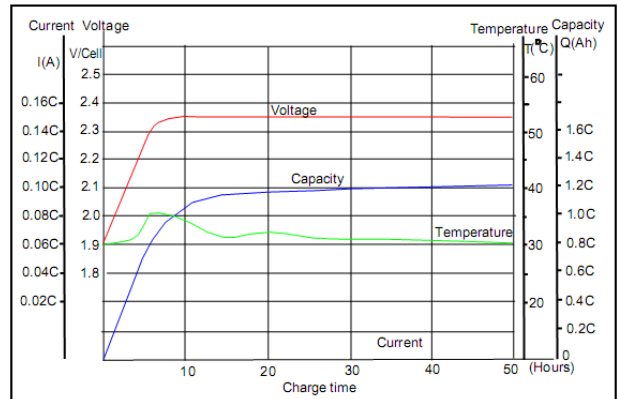
Initial Charging (CV) Characteristics



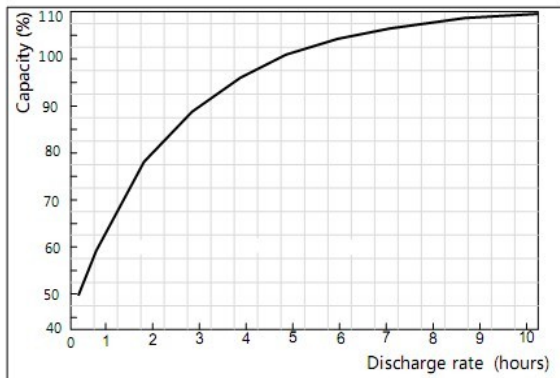
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Supplementary charge (CV) Characteristics



Effect of Discharge rate on Capacity



Cycle Life on D.O.D(25°C)

