

CFPS2600(2V600Ah)

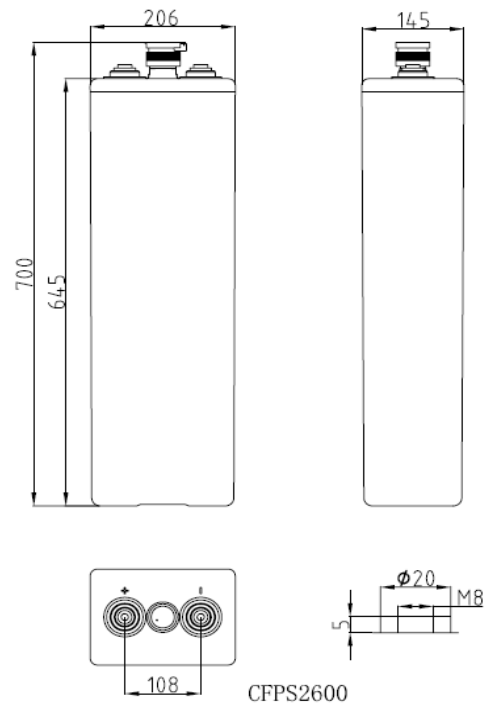
Specifications

Nominal Voltage		2 V
Capacity (20°C)	10HR(1.80V)	600Ah
	3HR(1.75V)	460 Ah
	1HR(1.60V)	336Ah
Battery Weigh	Dry	31kg (68.2lbs) ± 5%
	Wet	43kg (94.6lbs) ± 5%
Acid Weight (d=1.24kg/l)		Approx.12kg (26.4lbs)
Terminal type /material		T10 / Copper
Internal resistance (Fully charged, 25°C)		Approx. 0.65 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		150A(0.25C ₁₀)
Max. discharge current		3000A(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)

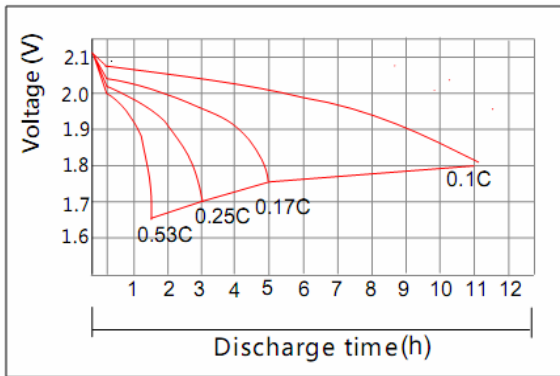
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	468	324	198	154	124	109	92.4	70.8	60.6	32.8	28.6	----	----
1.75V	456	316	195	153	123	108	91.8	70.2	60.6	32.8	28.4	----	----
1.80V	440	306	190	148	119	105	88.8	67.8	60.0	32.4	28.2	14.5	----
1.85V	416	288	179	139	112	99	83.4	63.6	57.0	31.0	26.8	14.5	6.00

Constant Power Discharge Characteristics (Watt, 25°C)

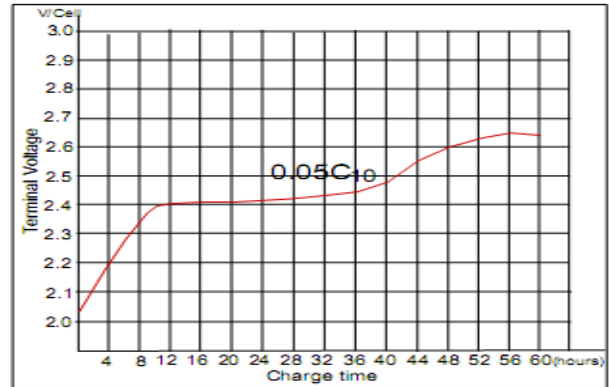
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	120h
1.70V	874	612	382	304	244	214	182	140	121	65.4	57.4	----	----
1.75V	852	600	376	300	242	214	181	139	120	65.4	57.0	----	----
1.80V	824	582	366	292	234	206	175	135	119	64.8	56.8	29.4	----
1.85V	766	540	342	270	218	192	163	125	111	60.0	54.0	29.4	12.2

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

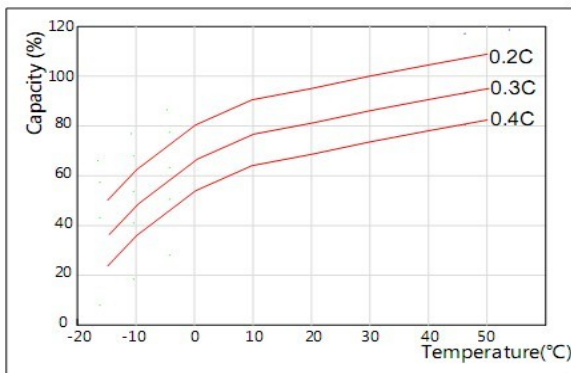
Discharge Characteristics(25°C)



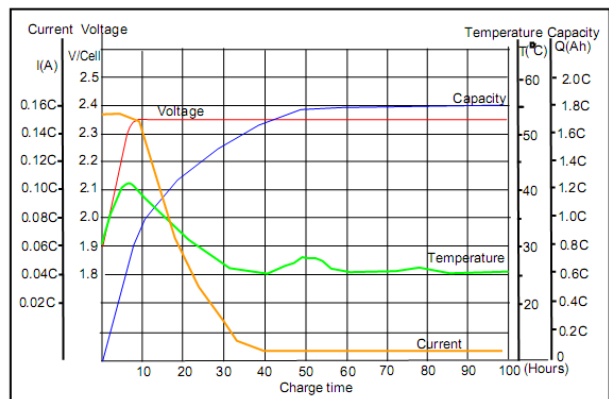
Initial Charging (CC) Characteristics(25°C)



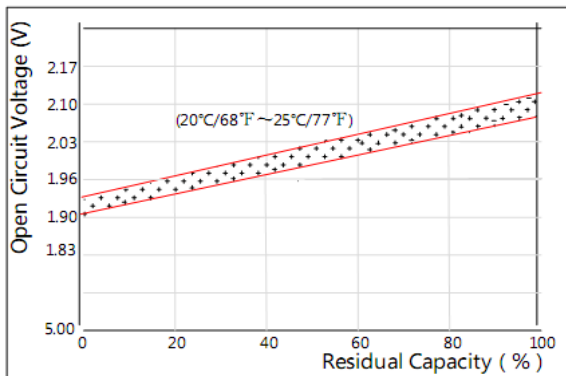
Effect of Temperature on Capacity



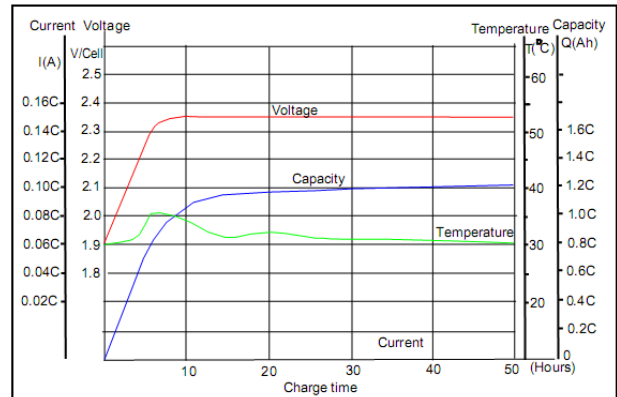
Initial Charging (CV) Characteristics



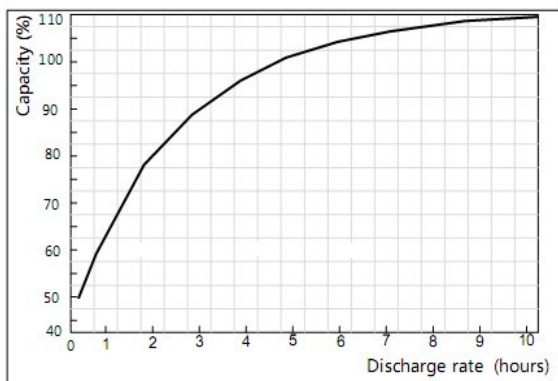
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



Supplementary charge (CV) Characteristics



Effect of Discharge rate on Capacity



Cycle Life on D.O.D(25°C)

