

## Specifications

Nominal Voltage		2 V
Capacity (25°C)	120HR(1.80V)	513Ah
	10HR(1.80V)	420 Ah
	1HR(1.60V)	235Ah
Dimension	Length	145 ± 2mm (5.71inch)
	Width	206 ± 2mm (8.11inch)
	Height	471 ± 3mm (18.5inch)
	Total Height	506 ± 3mm (19.9inch)
Approx. Weight		30.8kg (67.8lbs) ± 4%
Terminal type		T10
Internal resistance (Fully charged, 25°C)		Approx.0.70 m Ω
Capacity affected by temperature (10HR)	40°C	103%
	25°C	100%
	0°C	88%
	-15°C	70%
Self-discharge (25°C)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		25°C ± 3°C(77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C(5°F ~ 122°F)
	Charge	-10°C ~ 50°C(14°F ~ 122°F)
	Storage	-20°C ~ 50°C(-4°F ~ 122°F)
Float charging voltage(25°C)		2.25 to 2.27V Temperature compensation: -3mV/°C
Cyclic charging voltage(25°C)		2.35 to 2.40V Temperature compensation: -4mV/°C
Maximum charging current		84A
Terminal material		Copper
Maximum discharge current		2100A(5 sec.)
Designed floating life(20°C)		20 years

- ◆ Gelled electrolyte technology;
- ◆ Tubular Positive Plate;
- ◆ ABS container.
- ◆ DIN 40742 Standard.

## Constant Current Discharge Characteristics (A, 25°C)

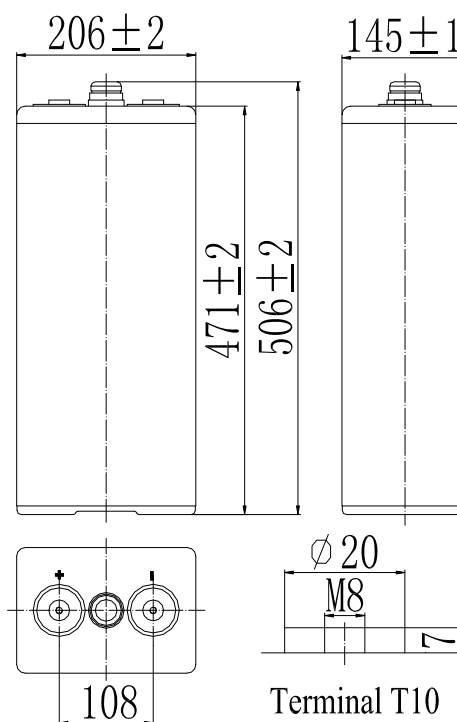
F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	100h	120h
1.65V	350	234	144	111	89.5	76.4	65.5	51.7	42.8	22.6	19.5	---	---	---	---
1.70V	339	230	143	110	88.6	75.6	65.1	51.2	42.4	22.6	19.4	10.3	---	---	---
1.75V	331	225	141	109	88.2	75.2	64.7	50.8	42.4	22.4	19.3	10.2	6.97	---	---
1.80V	319	218	137	106	85.7	73.1	62.6	49.1	42.0	22.3	19.2	10.2	6.93	---	---
1.85V	303	207	130	100	81.5	69.3	59.6	46.6	39.9	21.2	18.3	10.0	6.80	5.08	4.28

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

F.V/TIME	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h	24h	48h	72h	100h	120h
1.65V	654	448	278	217	175	150	129	102	84.8	45.4	39.2	---	---	---	---
1.70V	634	437	276	215	174	149	129	101	84.8	44.9	38.9	20.8	---	---	---
1.75V	619	428	271	214	173	148	127	101	84.0	44.9	38.8	20.7	14.2	---	---
1.80V	596	415	265	207	168	144	123	97.4	83.6	44.5	38.7	20.5	14.2	---	---
1.85V	566	394	252	197	159	137	117	92.4	79.4	42.3	36.8	20.1	13.9	10.2	8.74

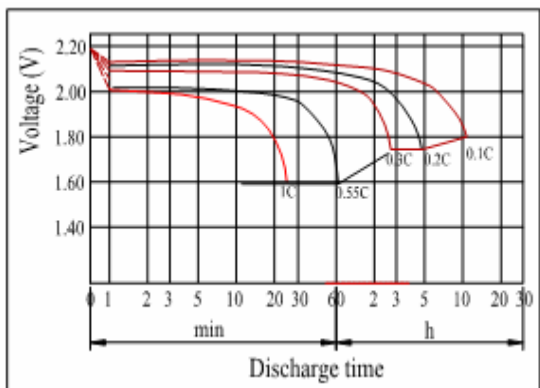
Note: The above characteristics data can be obtained within three charge/discharge cycles.

## Dimensions

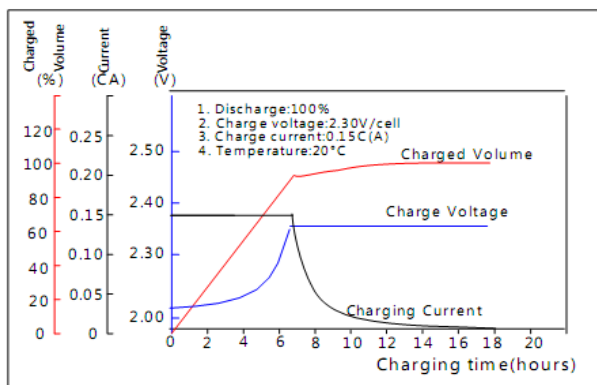


# CFPV2420(2V420Ah)

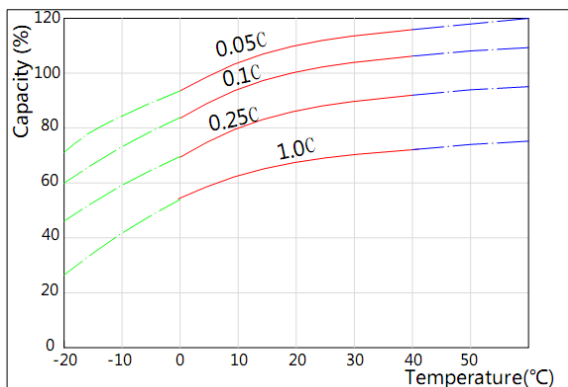
## Discharge Characteristics(25°C)



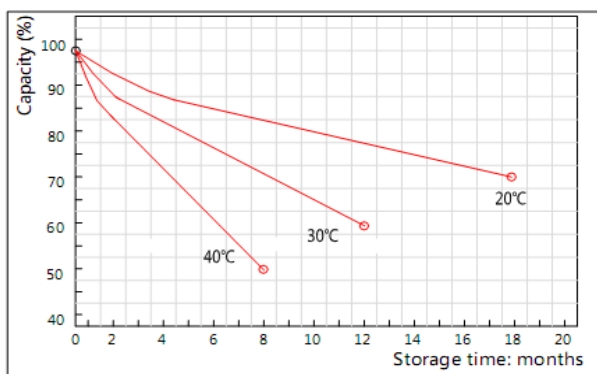
## Charging Characteristics(25°C)



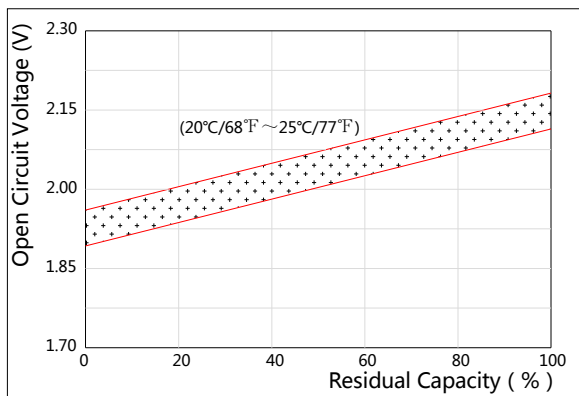
## Effect of Temperature on Capacity



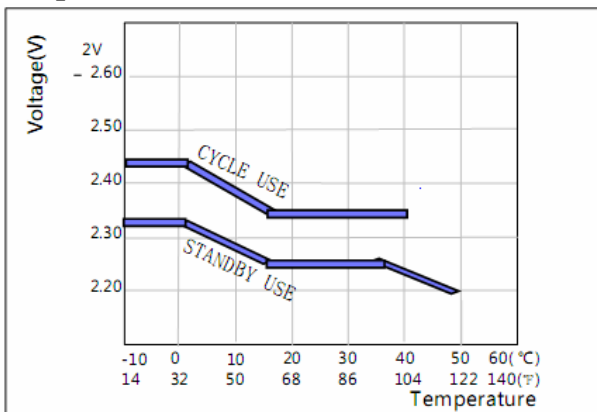
## Self-discharge Characteristics



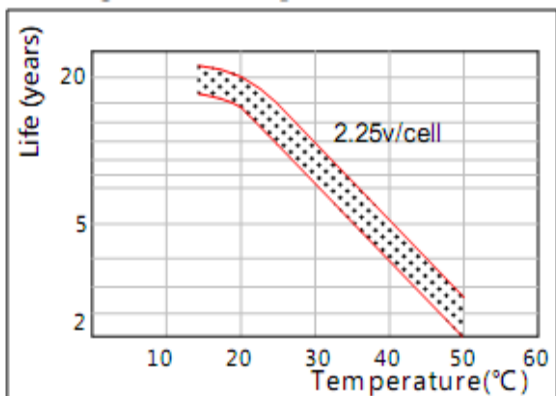
## The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



## The Relationship for Charging Voltage and Temperature



## Floating Life on Temperature



## Cycle Life on D.O.D(25°C)

