

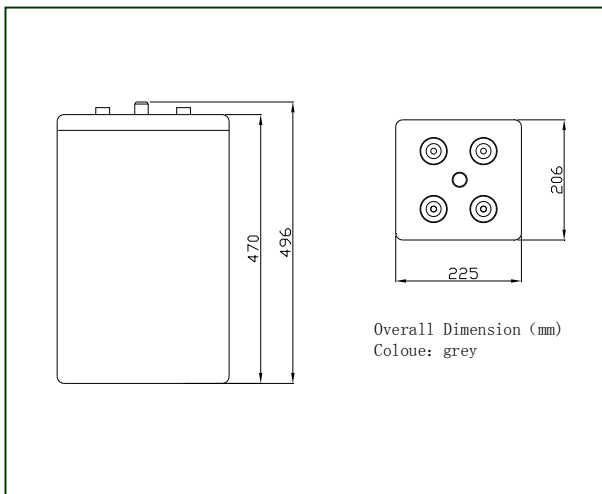
JPVD(OPzV)-700

The battery is manufactured with PVC-SiO₂ separator and colloidal or foamed silica. The tubular positive plate and pasted negative plate is applied. The batteries use silica gel to immobilize the electrolyte inside the battery. The proven silica gel technology improves battery cycle life and performance at various ambient temperatures.

General Features

- (1) The battery has a long service life, under float charging, ambient temperature 25°C, it can operate 12-15 years .
- (2) Excellent Recovery from deep discharge and good deep discharge cycle capability.
- (3) the battery has a low self-discharge, keep over 60% of the rated capacity after 2 years stored under 25°C.
- (4) High Reliability and Quality

Outer Dimensions



Performance Characteristics

Nominal Voltage	2V
Number of cell	1
Design Life	20 years
Nominal Capacity 77°F(25°C)	
240 hour rate(3.88A, 1.85V)	932Ah
48 hour rate(18.2A, 1.85V)	875Ah
10 hour rate(70A, 1.80V)	700Ah
3 hour rate (175A, 1.80V)	525Ah
1 hour rate(389, 1.70V)	389Ah
Self-Discharge	
1.5% of capacity declined per month at 20°C(average)	
Operation Temperature Range	
Discharge	-20~65°C
Charge	-10~65°C
Storage	-20~65°C
Max. Discharge Current 77°F(25°C)	3200A(5s)
Short Circuit Current	4500A

Dimensions and Weight

Length (mm / inch)	225 / 8.86
Width (mm / inch)	206 / 8.11
Height (mm / inch)	470 / 18.50
Total Height (mm / inch)	496 / 19.53
Approx. Weight(Kg / lbs)	59.0 / 129.8

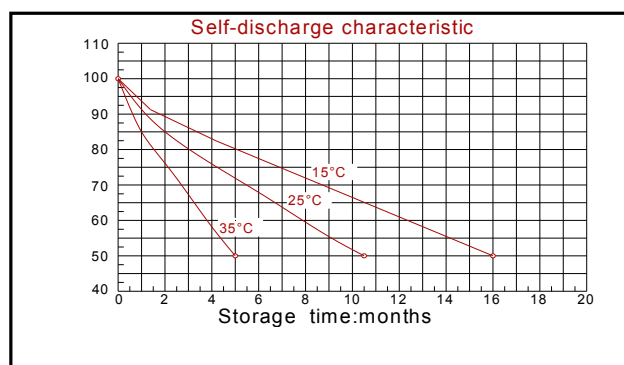
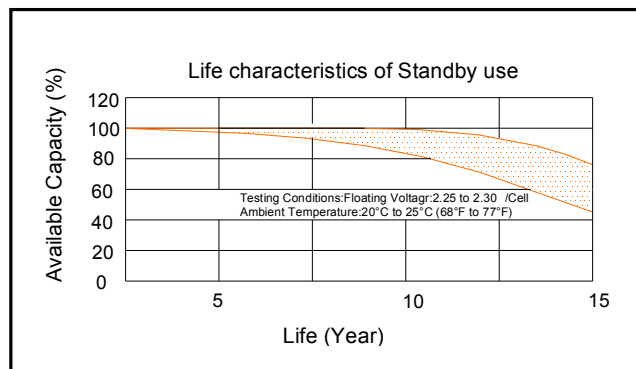
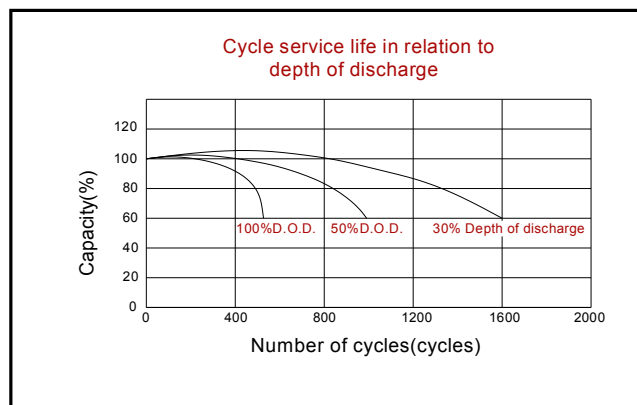
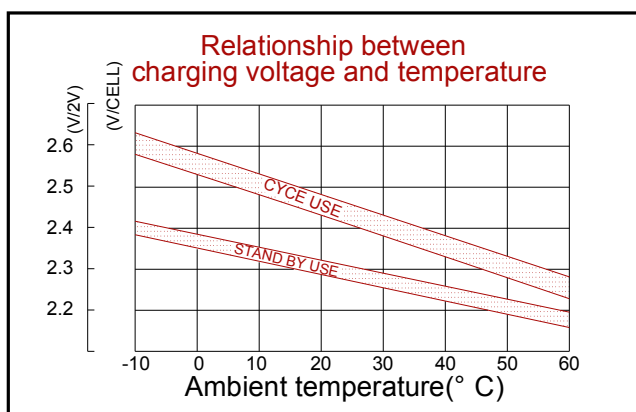
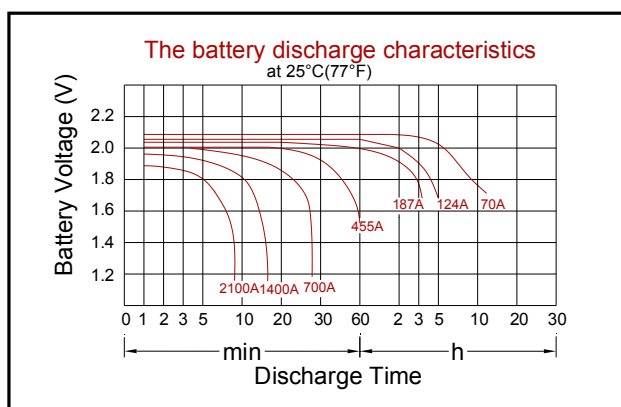
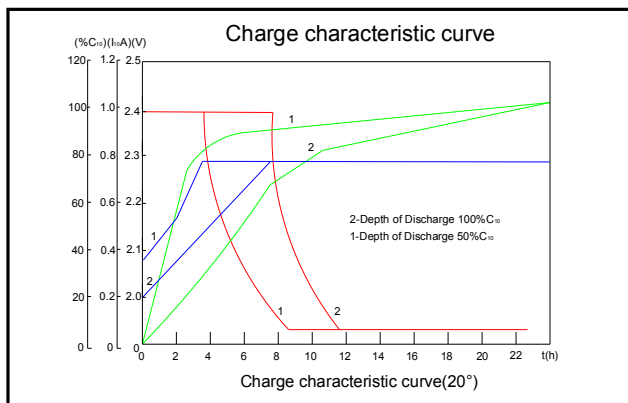
Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Tubular	Lead	ABS	ABS	Rubber	Copper	PVC-SiO ₂	Gel

Charging Methods

Application	Charging method	Charging Voltage at 20°C	Temperature compensation coefficient of charging voltage	Max. charging current	Charging time 20°C(h)		Temp (°C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	2.23~2.27V	-3 mV/°C	105A	36	30	0~45 (32~113°F)
For cycle service		2.38~2.42V	-4 mV/°C	105A	24	20	

*Temperature compensation of charging voltage is not needed when using the batteries within 5°C to 35°C range.



Discharge Constant Current (Amperes at 77°F25°C)

EndPoint Volts/Cell	15'	30'	1h	3h	5 h	10h	24h	48h	120h
1.65V	882	658	413	188	132	-----	-----	-----	-----
1.70V	798	599	389	182	125	-----	-----	-----	-----
1.75V	753	567	364	180	122	71.4	-----	-----	-----
1.80V	707	536	357	175	117	70.0	-----	-----	-----
1.85V	662	487	342	171	114	66.2	32.6	18.2	7.7

Discharge Constant Power (Watts at 77°F25°C)

EndPoint Volts/Cell	15'	30'	1h	3h	5 h	10h	24h	48h	120h
1.65V	1720	1283	822	374	263	-----	-----	-----	-----
1.70V	1556	1167	773	363	249	-----	-----	-----	-----
1.75V	1467	1106	724	358	243	142	-----	-----	-----
1.80V	1379	1044	710	348	233	139	-----	-----	-----
1.85V	1290	949	681	341	228	132	64.8	36.2	15.3

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