

## OPzV2-350



### Applications

- › Solar / wind energy and other new energy storage
- › Power systems
- › Telecommunications system
- › UPS/EPS
- › Auto control system
- › Other general purpose

### General Features

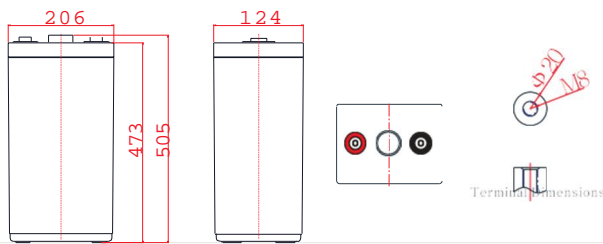
- › Tubular plate design to enhance battery performance
- › Tubular plate design makes long battery life
- › Relatively rich electrolyte, high temperature and low temperature performance is superior
- › Long cycle life, excellent deep cycle discharge ability
- › Excellent charge acceptance ability
- › Precision sealing technology

### Specification

Nominal Voltage	2V
Nominal Capacity	350Ah
Design life	20 years
Terminal	M8
Approx. Weight	Approx 28.5kg (62.9lbs)
Container Material	ABS
Rated Capacity	350Ah → 10Hour Rate (35.0A to 1.80V)
	265Ah → 3Hour Rate (88.2A to 1.80V)
	194Ah → 1Hour Rate (194A to 1.75V)
Internal resistance	Full charged at 25°C: 0.60 mΩ
Max. Discharge Current	1400A(5S)
Operating Temperature	Discharge: -20 ~50°C (-4~ 122°F)
	Charge: -20 ~50°C (-4~ 122°F)
	Storage: -20 ~50°C (-4~ 122°F)



Dimension: 124(L)x206(W) x473(H)x505(TH) Unit: mm



Charge current: Max. 70.0A; Recom.35.0A

Charge Method (25 °C) Float Charge:2.23-2.27V, recom.2.25V(-3mV/ °C)

Equalize charge:2.30-2.35V, recom.2.35V(-4mV/ °C)

Cycle charge:2.40-2.50V, recom.2.40V(-5mV/ °C)

Self discharge 3% of capacity declined per month at 25°C

### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

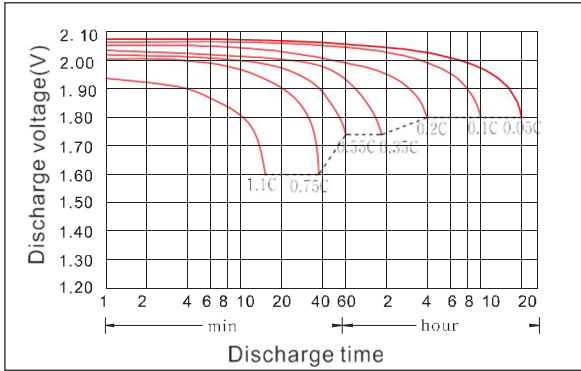
FV/Time	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	383	306	212	131	93.8	64.4	45.3	37.1	19.8
1.65V	365	292	209	128	92.6	63.5	44.6	36.9	19.7
1.70V	347	274	201	125	91.2	62.3	43.9	36.2	19.4
1.75V	327	256	195	121	89.8	60.9	43.4	35.7	19.1
1.80V	294	235	182	118	88.2	59.3	42.5	35.0	18.7
1.85V	249	209	170	113	84.7	57.2	41.3	34.3	18.2

### Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

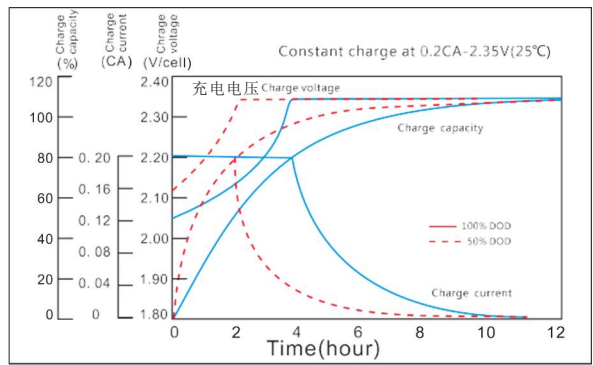
FV/Time	15Min	30Min	1h	2h	3h	5h	8h	10h	20h
1.60V	764	607	412	257	197	132	94.5	78.4	42.0
1.65V	729	578	391	253	193	131	92.9	75.1	41.1
1.70V	697	553	379	249	187	127	91.0	74.9	40.1
1.75V	659	529	366	243	182	124	88.9	73.5	39.2
1.80V	627	509	368	235	176	120	86.6	71.6	38.3
1.85V	575	482	337	223	168	114	83.3	69.5	37.1

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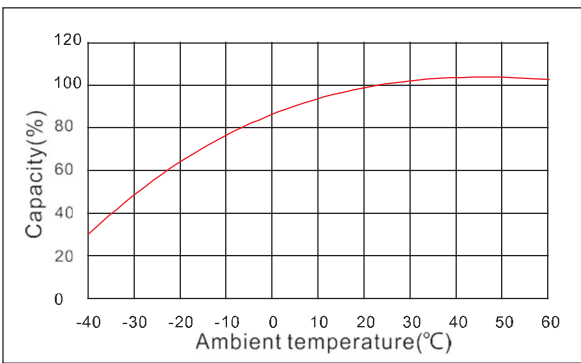
Discharge characteristic



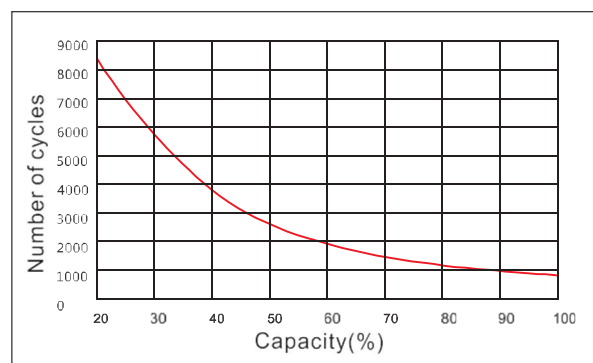
Charging characteristic



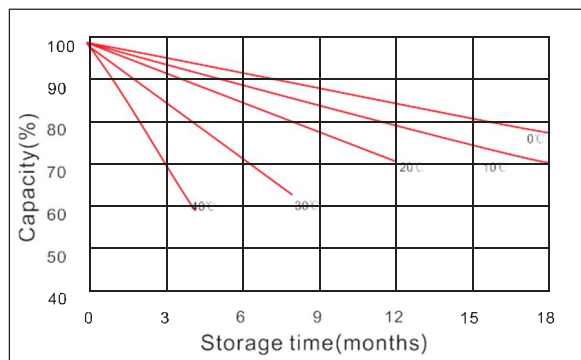
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

