

## OPzS2-600

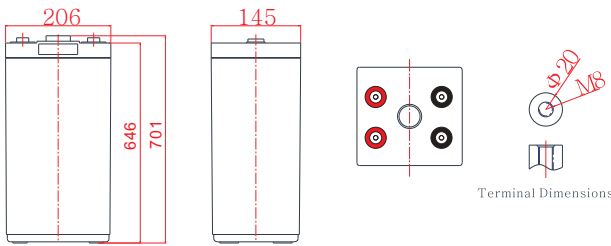


### General Features

- > 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



Dimension: 206(L) x 145(W) x 646(H) x 701(TH) Unit: mm



### Applications

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

### Specification

Nominal Voltage	2V
Nominal Capacity	600Ah
Design life	20 years
Terminal	M8, Ø=20
Approx. Weight	Approx 45.0kg (99.2lbs) Dry cell 32.0Kg
Container Material	SAN transparent container
Rated Capacity	633.8Ah 10Hour Rate (63.38A to 1.80V)
	541.0Ah 5Hour Rate (108.2A to 1.75V)
	363.5Ah 1Hour Rate (363.5A to 1.60V)
Internal resistance	Full charged at 25°C: 0.41 mΩ
Max. Discharge Current	5000A(5S)
Operating Temperature	Discharge: -20 ~55°C(-4 ~ 131°F)
	Charge: -10 ~45°C(14 ~ 113°F)
	Storage: -15 ~45°C(5 ~ 113°F)
Charge current:	Max.160A ; Recom.80A
Charge Method (25 °C)	Float Charge:2.23-2.25V,recom.2.25V(-3mV/ °C)
	Equalize charge:2.30-2.40V,recom.2.35V(-4mV/ °C)
	Cycle charge:2.35-2.45V,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)

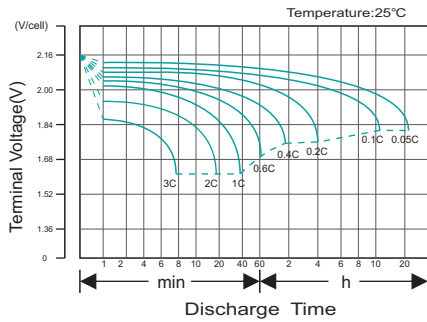
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	506	346	216	156	124	107	94	76.5	63.7	28.32	15.66
1.65V	489	338	212	153	123	106	93	76.0	63.3	28.32	15.54
1.70V	468	328	206	151	121	104	92	75.1	63.0	28.02	15.42
1.75V	451	318	201	147	119	103	90	73.7	62.1	27.54	15.24
1.80V	412	303	194	144	116	100	88	71.8	60.2	26.88	14.94
1.85V	366	282	183	140	113	97	85	69.8	59.4	26.04	14.22
1.95V	296	225	160	125	105	90	78	63.3	53.4	23.88	13.32

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

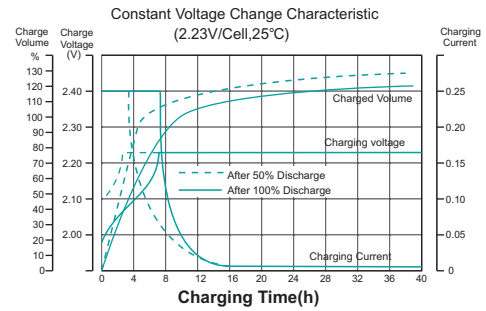
F.V/Time	30 min	1h	2h	3h	4h	5h	6h	8h	10h	24h	48h
1.60V	922	638	398	288	230	198	175	142.3	118.3	52.86	29.70
1.65V	899	624	390	284	227	196	173	141.2	117.8	52.74	29.58
1.70V	864	606	382	280	225	193	170	139.3	117.2	52.14	29.34
1.75V	834	592	374	274	221	191	168	137.5	116.1	51.72	29.22
1.80V	770	571	365	272	220	190	166	136.4	113.5	51.06	28.92
1.85V	696	534	349	267	216	186	163	133.9	114.1	50.46	28.08
1.95V	584	444	316	247	208	179	155	125.6	106.4	48.18	27.30

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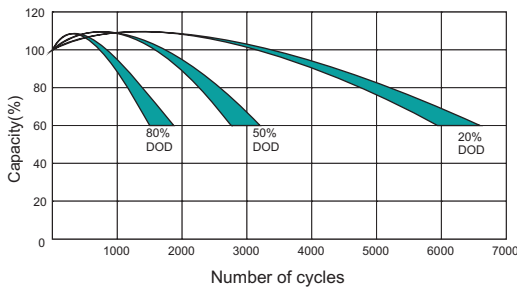
### Discharge Characteristics Curve



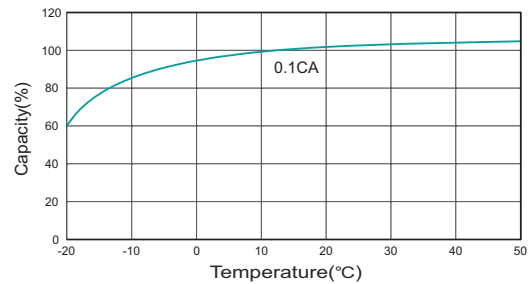
### Charging Characteristics Curve



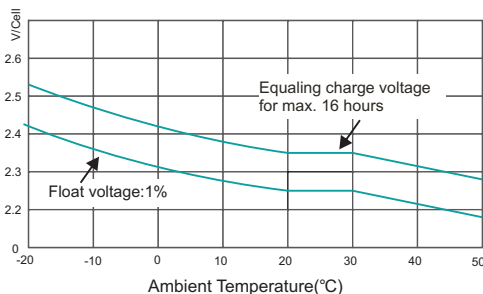
### Cycle life in relation to depth of Discharge



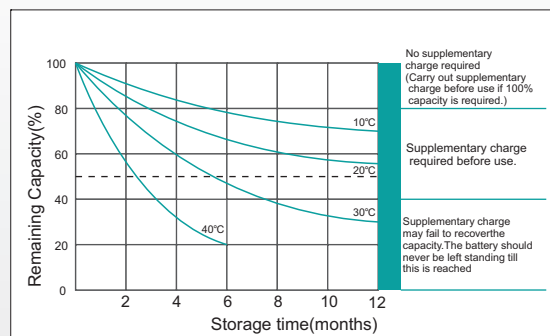
### Temperature effects on Capacity



### Relationship between charging voltage and temperature



### Self-discharge Characteristics



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