

## OPzV2-1500

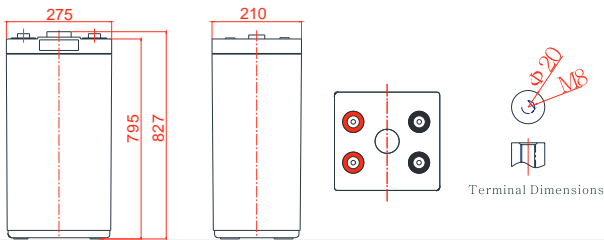


### General Features

- › 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: 275 (L) x 210 (W) x 795 (H) x 827 (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	1500Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 112.0kg (247lbs)		
Container Material	ABS		
Rated Capacity	1500Ah	10Hour Rate	(150A to 1.80V)
	1134Ah	3Hour Rate	(378A to 1.80V)
	833Ah	1Hour Rate	(833A to 1.75V)
Internal resistance	Full charged at 25°C: 0.35 m		
Max. Discharge Current	7500A(5S)		
Operating Temperature	Discharge: -20 ~50 (-4~ 122°F)		
	Charge : -20 ~50 (-4~ 122°F)		
	Storage: -20 ~50 (-4~ 122°F)		
Charge current:	Max. 300.0A Recom.150.0A		
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 , 77 )

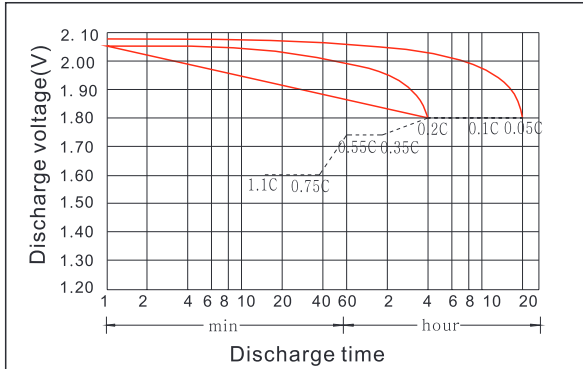
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1643	1313	908	560	402	276	194	159	85.5
1.65V	1560	1253	893	550	397	272	191	158	84.8
1.70V	1485	1170	863	536	391	267	188	155	83.3
1.75V	1403	1095	833	522	385	261	186	153	81.8
1.80V	1260	1005	780	505	378	254	182	150	80.3
1.85V	1065	893	730	485	363	245	177	147	78.0

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

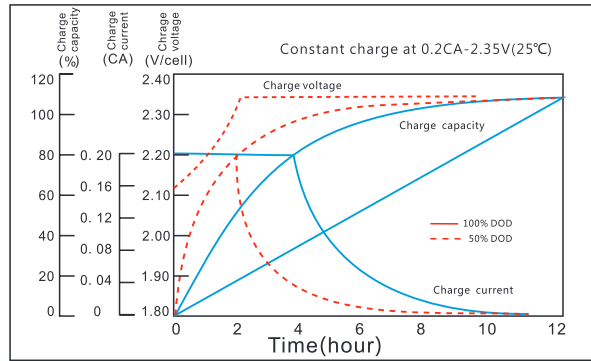
FV/Time	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	3278	2603	1763	1103	848	566	405	336	180
1.65V	3120	2475	1673	1088	825	558	398	322	176
1.70V	2985	2370	1628	1065	803	546	390	321	172
1.75V	2828	2265	1568	1035	780	532	381	315	168
1.80V	2685	2183	1575	1005	758	516	371	307	164
1.85V	2460	2063	1440	953	721	491	357	298	159

# OPzV2-1500

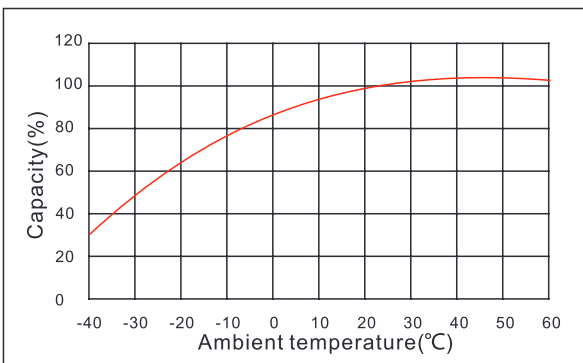
Discharge characteristic



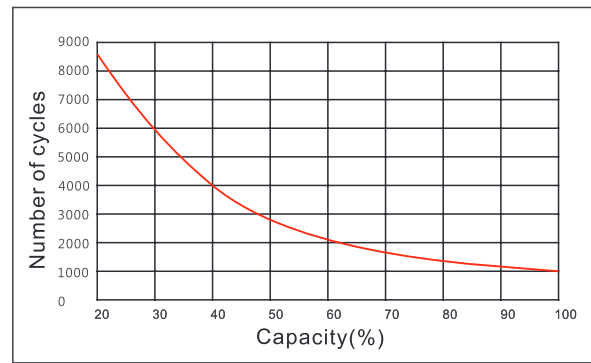
Charging characteristic



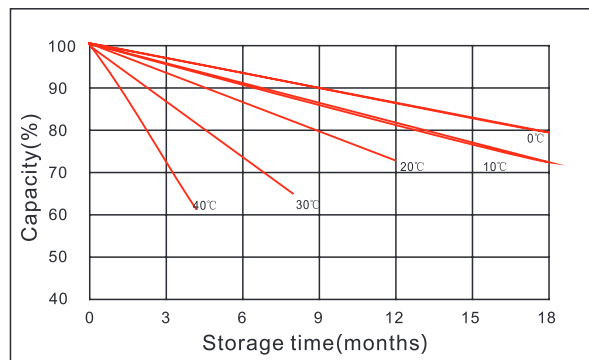
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

