

ENERPOWER OPzV2-250



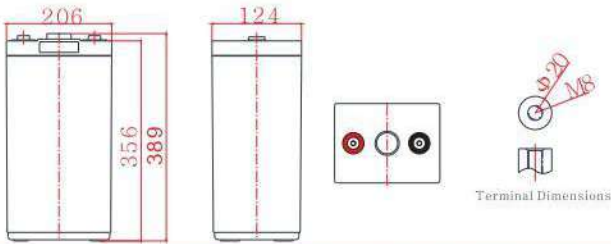
OPzV Series tubular GEL battery

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: 124(L)×206(W)×356(H)×389(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	250Ah
Design life	20 years
Terminal	M8
Approx. Weight	Approx 22.5kg (49.6lbs)
Container Material	ABS
Rated Capacity	250Ah → 10Hour Rate (25A to 1.80V)
	187.5Ah → 3Hour Rate (62.5A to 1.80V)
	125Ah → 1Hour Rate (125A to 1.80V)
Internal resistance	Full charged at 25°C: 0.72 mΩ
Max. Discharge Current	1250A(5S)
Operating Temperature	Discharge: -15~50°C(5~ 122°F)
	Charge: -15~50°C(5~ 122°F)
	Storage: -20~40°C(-4~ 104°F)
Charge current:	Max. 40.0A ; Recom. 20.0A
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	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	260	204	149	93	67	53	45.2	39.7	32.1	26.2
1.65V	245	194	140	90	66	52	44.7	39.2	31.8	26.1
1.70V	231	186	137	88	64	52	44.1	38.6	31.4	26.0
1.75V	217	176	129	85	63	51	43.3	37.9	30.8	25.6
1.80V	202	165	125	83	62	50	42.5	36.9	30.1	25.0
1.85V	186	150	115	78	59	48	41.0	35.6	29.2	24.5

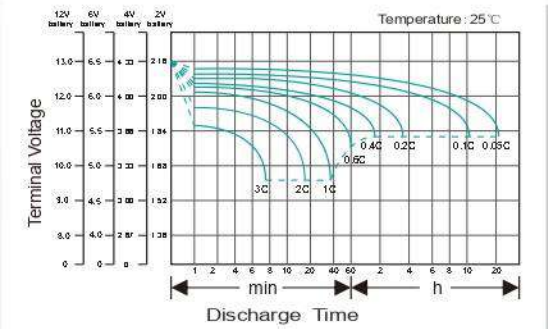
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	448	359	271	173	126	100.9	85.8	75.6	61.3	50.2
1.65V	428	340	255	170	124	98.9	85.0	74.9	60.9	50.1
1.70V	405	327	251	166	123	98.6	84.2	73.9	60.4	50.0
1.75V	382	313	240	162	121	97.1	83.0	72.8	59.4	49.5
1.80V	361	301	230	158	119	95.2	81.4	71.0	58.0	48.1
1.85V	335	277	219	150	115	93.7	79.7	69.4	56.9	47.9

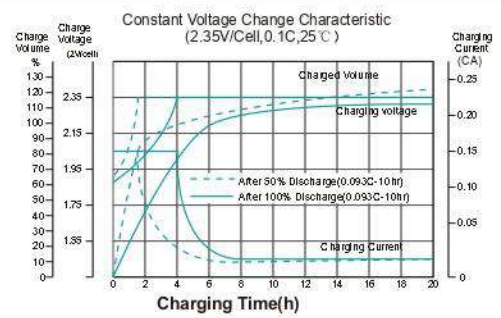
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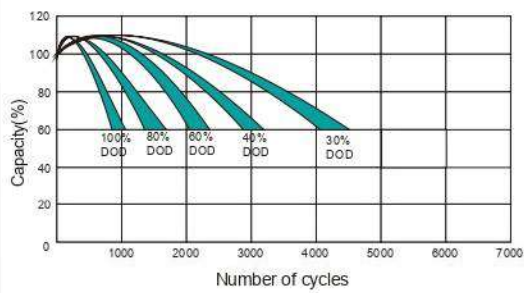
Discharge Characteristics Curve



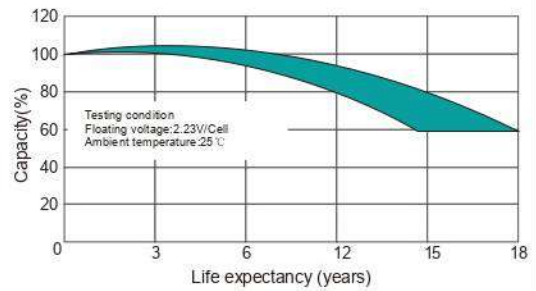
Charging Characteristics Curve



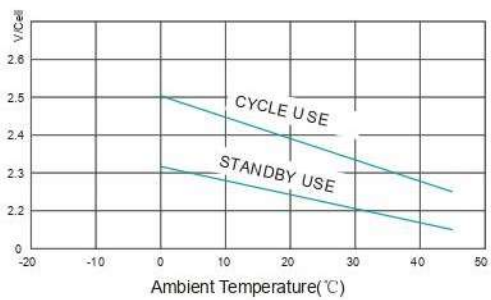
Cycle life of Different DOD



Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics

