

OPzV Deep Cycle Tubular GEL Battery

40PzV150

CSBattery OPzV series Tubular GEL battery is with 20 years floating design life, it is a Valve Regulated Tubular Gel battery that adopts immobilized GEL and Tubular Plate technology to offer high reliability and performance. The Battery is designed and manufactured according to DIN standards and with die-casting positive grid and patent formula of active material. OPzV series exceeds DIN standard values with more than 20 years floating design life at 25°C and is even more suitable for cyclic use under extreme operating conditions.

2V
150Ah

GEL
Technology

Tubular
Plate



Applications

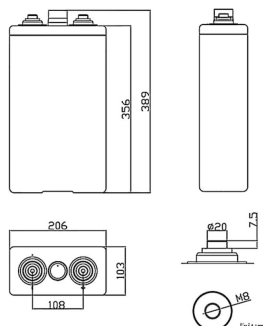
- Solar & Wind Power system
- Nuclear power station
- Telecom backup power supply
- energy saving requirements
Emergency Power System

General Features

- ✓ It can discharge at -15°C-50°C, Charge at -15°C-50°C
- ✓ Long life expectancy of 20+ years in floating condition
- ✓ Adopts quality silicon nano gel electrolyte
- ✓ Excellent deep discharge recovery capability
- ✓ Deep cycle performance: up to 3300

Dimensions & Weight

Length(mm/inch)	103/4.06
Width(mm/inch)	206/8.11
Height(mm/inch)	356/14.01
Total Height(mm/inch)	389/15.31
Weight(kg/lbs)(±3%)	14.6/32.19
Terminal: M8 / M10	



Technical Specifications

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		20 Years
Nominal Capacity @25°C(10 hour rate@15.0A,1.8V)		150Ah
Capacity @25°C	5 hour rate (25.4A,1.8V)	127.0Ah
	3 hour rate (37.0A,1.8V)	111.0Ah
	1 hour rate (77.0A,1.75V)	77.0Ah
Internal Resistance	Full Charged Battery@25°C	≤2.1mΩ
Ambient Temperature	Discharge	-15°C~50°C
	Charge	-15°C~50°C
	Storage	-20°C~40°C
Max.Discharge Current@25°C		750A (5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	25°C	100%
	0°C	85%
	-15°C	79%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 37.5A Voltage 2.23-2.25V
	Cycle Use	Initial Charging Current Less than 37.5A Voltage 2.35-2.45V



Battery Discharge Table

Discharge Constant Current per Cell (Amperes at 25 °C)

End voltage	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h	48h	72h	108h
1.60V	103	81	59	37	27	21	18.1	15.9	12.8	10.5	8.9	5.4	4.7	2.57	2.03	2.64
1.65V	97	77	56	36	26	21	17.9	15.7	12.7	10.4	8.8	5.4	4.7	2.57	2.00	1.44
1.70V	92	74	55	35	26	21	17.6	15.4	12.6	10.4	8.8	5.3	4.6	2.52	1.95	1.39
1.75V	86	70	51	34	25	20	17.3	15.1	12.3	10.2	8.7	5.3	4.6	2.52	1.94	1.39
1.80V	80	65	49	33	25	20	16.9	14.8	12.0	10.0	8.5	5.1	4.5	2.48	1.84	1.34
1.85V	68	54	41	30	21	17	15.1	13.3	11.1	9.5	8.4	5.1	4.3	2.33	1.73	1.29
1.90V	56	45	35	25	19	16	14.0	12.3	10.1	8.5	7.6	4.6	4.0	2.18	1.60	1.19
1.95V	44	33	25	19	16	14	11.0	9.4	7.7	6.9	6.0	3.9	3.5	1.88	1.35	0.99

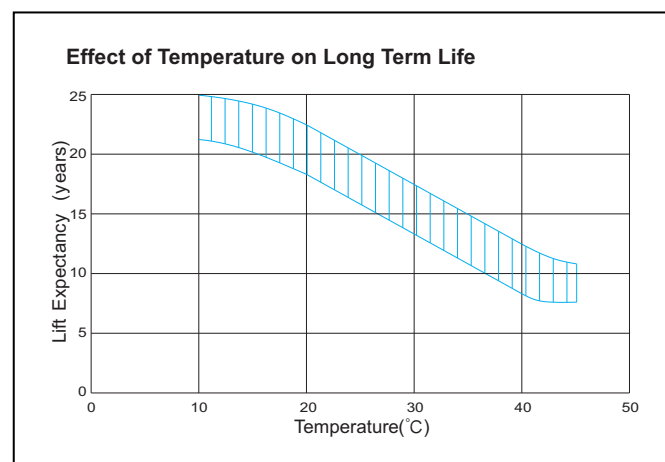
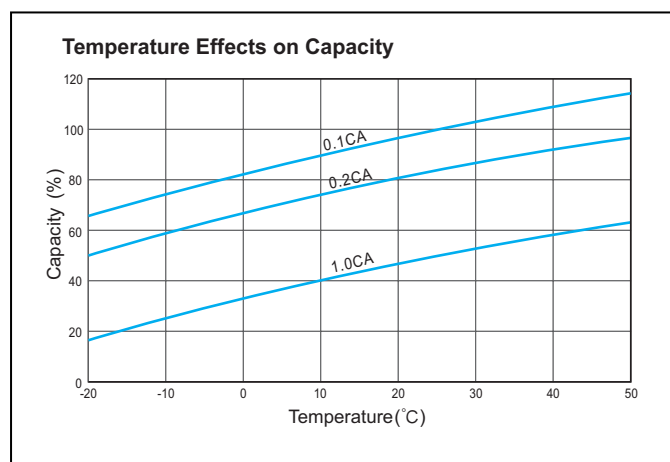
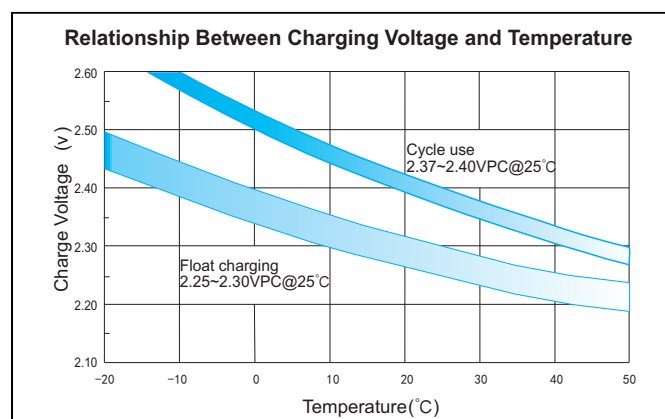
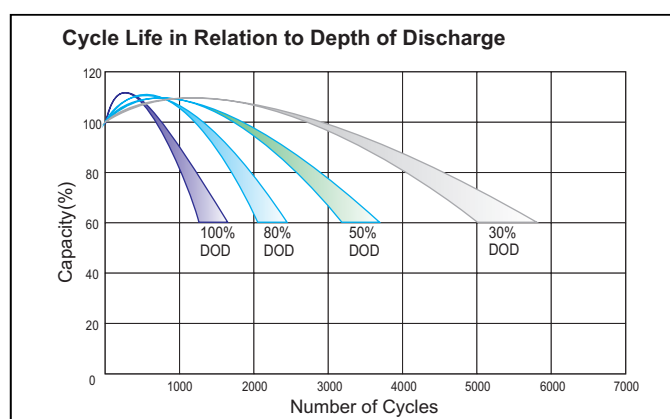
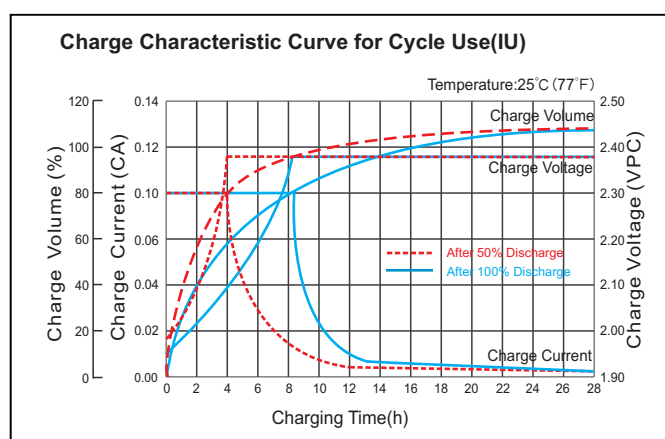
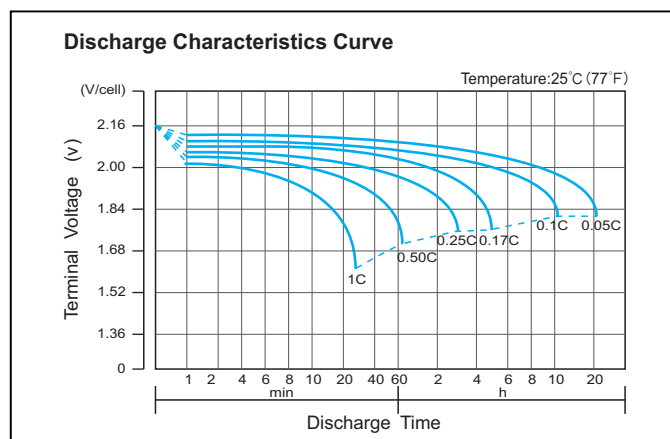
Discharge Constant Power per Cell (Watts at 25 °C)

End voltage	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h	48h	72h	108h
1.60V	177	142	108	69	50	40	34.3	30.2	24.5	20.1	17.0	10.4	9.4	5.14	3.94	2.64
1.65V	170	135	102	68	50	40	34.0	29.9	24.4	20.0	16.9	10.4	9.3	5.13	3.88	2.65
1.70V	160	129	100	66	49	39	33.7	29.6	24.2	20.0	16.9	10.3	9.3	5.04	3.78	2.56
1.75V	151	124	96	65	48	39	33.2	29.1	23.8	19.8	16.8	10.3	9.1	5.05	3.77	2.57
1.80V	143	119	91	63	48	38	32.6	28.4	23.2	19.3	16.5	10.0	9.0	4.98	3.60	2.49
1.85V	123	100	78	57	41	34	29.3	25.8	21.6	18.6	16.4	9.9	8.8	4.73	3.42	2.42
1.90V	102	86	68	49	37	32	27.5	24.0	19.8	16.8	14.9	9.0	8.2	4.52	3.22	2.28
1.95V	82	64	48	37	31	27	21.6	18.6	15.2	13.5	11.9	7.7	7.3	3.91	2.73	1.91

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Performance Characteristics



Battery Discharge Capacity

Long time discharge capacity for solar/wind application						
Capacity	C24 (Ah)	C48 (Ah)	C72 (Ah)	C100 (Ah)	C120 (Ah)	C240 (Ah)
Model	F.V=1.85VPC					
OPzV2-150	169	188	190	193	197	200

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSBattery** for the latest information.

Add: Evolution space park, No. 61, Liuxian 2nd Road, Bao'an Town, Shenzhen, China.

Mob: +8613612867133 Email: info@csbattery.cn

Website: www.CSBattery.cn