

OPzV Deep Cycle Tubular GEL Battery

60PzV600

CSBattery OPzV series Tubular GEL battery is with 25 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 25 years floating design life at 25°C and is even more suitable for cyclic use under extreme operating conditions.

2V
600Ah

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 -40°C~70°C, Charge at 0-50°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

Complied Standards



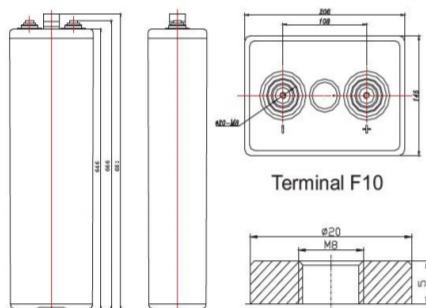
Dimensions & Weight

Length(mm/inch)	145/5.7
Width(mm/inch)	206/8.1
Height(mm/inch)	666/25.4
Total Height(mm/inch)	681/26.8
Weight(kg/lbs)(±3%)	46/101.7

Technical Specifications

Nominal Voltage		2V(Single Cell)
Design Floating Life @25°C		25 Years
Nominal Capacity @25°C(10 hour rate@60.0A,1.8V)		600Ah
Capacity @25°C	20hour rate (31.5A,1.8V)	630Ah
	5 hour rate (102A,1.75V)	510Ah
	1 hour rate (379.2A,1.60V)	379.2Ah
Internal Resistance	Full Charged Battery@25°C	≤0.33mΩ
Ambient Temperature	Discharge	-40°C~70°C
	Charge	-0°C~50°C
	Storage	-20°C~60°C
Max.Discharge Current@25°C		2500A (5s)
Capacity affected by Temperature (10 hour)	40°C	105%
	25°C	100%
	0°C	89%
	-15°C	79%
Self-Discharge@25°C per Month		2%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 120.0A Voltage 2.25-2.3V
	Cycle Use	Initial Charging Current Less than 120.0A Voltage 2.37-2.4V

Unit: mm Dimension: 145(L) × 206 (W) × 681 (H)



Battery Discharge Table

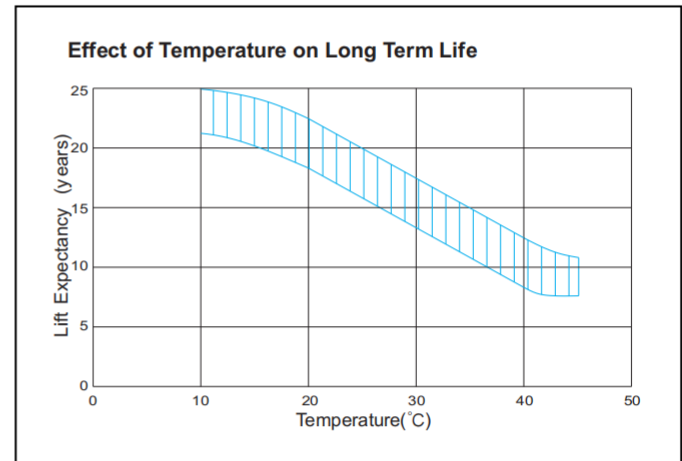
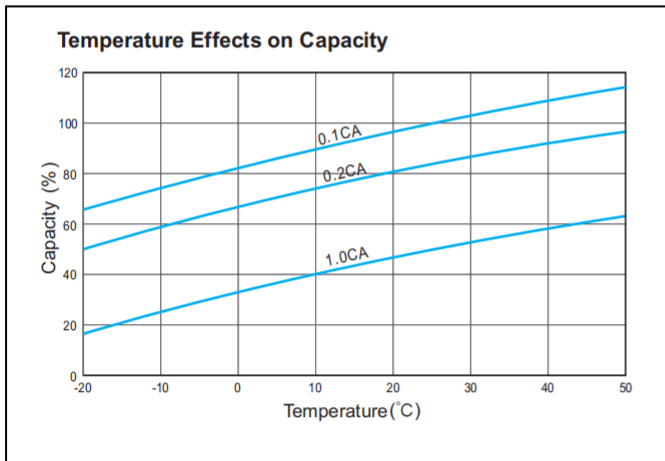
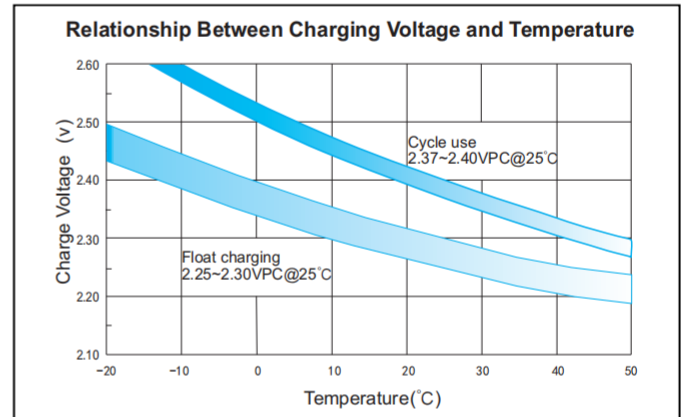
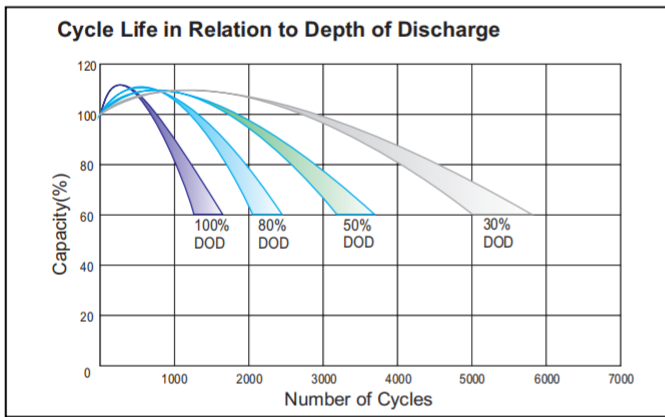
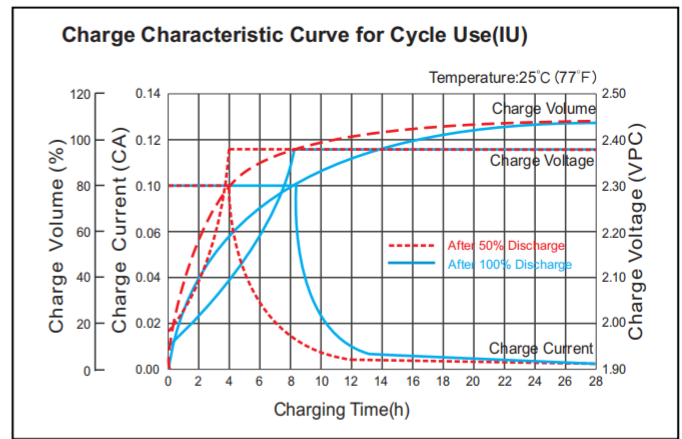
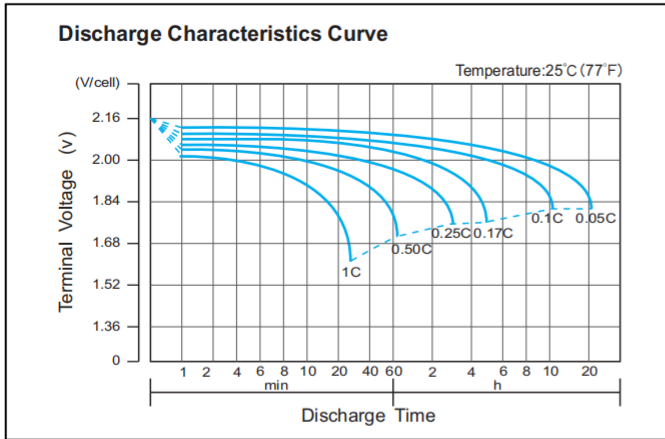
Discharge Constant Current per Cell (Amperes at 25° C)

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90	295.2	234	165	125.1	102.6	88.66	79.8	62.27	53.4	28.04
1.87	330	258	177	132.7	108.3	93.26	84.6	65.18	55.8	29.3
1.83	378	288	192	141.4	114	97.29	87.6	68.09	58.2	30.56
1.80	420	312	199.2	145.5	116.3	99.6	90	69.84	60	31.5
1.75	468	334.2	208.2	151.3	118.2	102	91.8	71	61.2	32.13
1.70	516	345	214.2	154.2	120.3	103.2	93	71.59	61.8	32.45
1.65	532.2	366.6	221.4	158.4	122	104.4	94.2	72.17	62.4	32.76
1.60	555	379.2	229.8	165	125.4	106.2	95.4	72.75	63	33.08

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

F.V/ Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.90	565	449.2	319	242.4	200.8	174.6	157.8	124.5	108.8	57.14
1.87	621.7	487.8	338.3	253.9	211.7	183	166.8	129.8	113.5	59.58
1.83	696.5	531.8	360	267.1	221.9	190.2	172.2	134.4	117.6	61.72
1.80	761	567.4	372.1	273.2	226.1	194.4	176.4	137.4	120.5	63.25
1.75	825.5	592.7	384.1	281.6	229.1	199.2	179.4	139.1	122.2	64.17
1.70	885.2	598.8	393.8	286.4	232.8	201	181.2	140.3	123.4	64.78
1.65	900.3	625.3	404.6	292.5	235.8	202.8	183	141.4	124	65.08
1.60	911.1	644.6	414.3	302.1	241.8	204.6	184.2	142	124.5	65.39

Performance Characteristics



Battery Discharge Capacity

Long time discharge capacity for solar/wind application						
Capacity Model	C24 (Ah)	C48 (Ah)	C72 (Ah)	C100 (Ah)	C120 (Ah)	C240 (Ah)
	OPzV2-600	674	750	755	768	785

F.V=1.85VPC

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.

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