

Durable Battery *Choose* CSBattery



OPzV Deep Cycle Tubular GEL Battery

OPzV12-150

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 cast-iron positive grid and sinter 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.

12V
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 -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 3000

Dimensions & Weight

Technical specifications

Use mm	Cells Per Unit	6
	Voltage Per Unit	12
	Nominal Capacity	150Ah(20hr rate by 1.80V per cell @25°C)
	Weight	Approx. 35.0 kg (Tolerance ±1.5%)
	Internal Resistance	Approx. 0.5 mΩ
	Terminal	FLUANGE (C240)
	Max. Discharge Current	180A (3 sec)
	Design Life	20 years (floating charge)
	Maximum Charging Current	52.0 A
	Reference Capacity	C24 181.2Ah C48 170.2Ah C72 158.4Ah C96 146.4Ah C120 134.4Ah C144 122.4Ah
	Float Charging Voltage	13.8 V±0.3 V @ 25°C Temperature Compensation: -0.004V/°C/Cell
	Cycle Use Voltage	14.2 V±0.4 V @ 25°C Temperature Compensation: -0.004V/°C/Cell
	Operating Temperature Range	Discharge: -40°C~70°C Charge: -20°C~50°C Storage: -40°C~60°C
	Normal Operating Temperature Range	25°C±5°C
	Self Discharge	Less than 3% per month at 25°C after being fully charged 100% DOD (25°C) means 100% Depth of Discharge
	Container Material	A.B.S. UL94V-0, UL94V-0 (Optional)

Discharge Constant Current per Cell (Amperes at 25°C)										
F.V./Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.80V	78.72	62.40	44.92	33.37	27.36	23.64	21.28	18.61	14.24	7.477
1.87V	88.00	68.80	47.22	35.38	28.88	24.87	22.56	17.48	14.52	7.812
1.93V	100.8	78.20	51.20	37.72	30.40	25.94	23.36	18.16	14.98	8.148
1.99V	112.0	83.20	53.12	38.79	31.01	26.56	24.09	18.62	15.00	8.402
1.75V	124.8	89.14	55.54	40.36	31.52	27.20	24.48	18.93	16.36	8.569
1.70V	137.6	92.02	57.14	41.14	32.07	27.52	24.80	19.09	16.48	8.651
1.65V	141.9	97.78	58.00	42.24	32.53	27.84	25.12	19.25	16.64	8.736
1.60V	148.0	101.1	61.30	44.02	33.44	28.32	25.44	19.40	16.80	8.821

Discharge Constant Power per Cell (Watts at 25°C)										
F.V./Time	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.80V	150.7	119.8	85.04	64.05	53.57	46.58	42.08	33.21	25.03	15.24
1.87V	165.8	130.1	93.18	67.03	56.41	48.80	44.40	34.61	26.26	15.48
1.93V	185.7	141.8	98.00	71.23	59.20	50.72	45.92	35.85	31.35	16.46
1.99V	202.9	151.3	99.20	72.80	60.33	51.84	47.04	36.03	33.12	16.87
1.75V	220.1	158.0	102.4	75.08	61.10	53.12	47.84	37.09	32.59	17.11
1.70V	236.0	159.7	105.0	76.33	62.04	53.60	48.32	37.40	32.90	17.27
1.65V	240.1	166.8	107.9	78.04	62.87	54.08	48.80	37.71	33.05	17.36
1.60V	243.0	171.9	110.5	80.59	64.47	54.56	49.12	37.87	33.21	17.43

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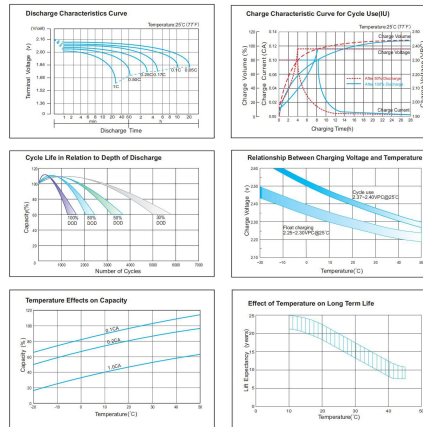
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Performance Characteristics



Battery Discharge Capacity

Long time discharge capacity for solar/wind application				
Capacity	C24(Ah)	C48(Ah)	C72(Ah)	C100(Ah)
Model	C24(Ah)	C48(Ah)	C72(Ah)	C100(Ah)
OPzV12-160	178.1	200.0	201.3	122.0

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