



Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

Design for Cyclic Applications

【Design Life】

400 cycles @ 100%DOD at 25°C

1800 cycles @ 30%DOD at 25°C

【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)

Discharge : -15°C ~ 50°C (5°F~122°F)

Charge: -15°C ~ 40°C (5°F~104°F)

Storage: -15°C ~ 40°C (5°F~104°F)

【Equalization Charging Voltage】

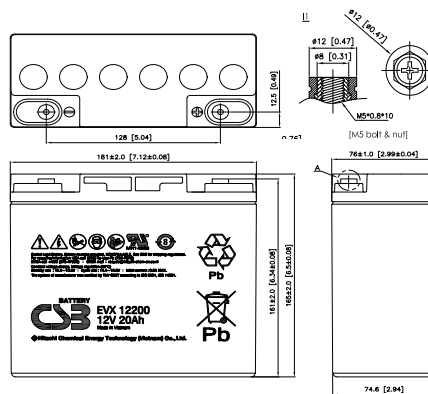
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F); Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

Specification

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	20 AH @20HR-rate to 1.75V per cell @25°C (77°F)		
Weight	Approx. 6.70 Kg (14.77 lbs)		
Maximum Discharge Current	230A (5sec)		
Internal Resistance	Approx. 12.5 mΩ		
Short Circuit Current	607A		
Maximum Charge Current	6.00A		
Terminal types	I1 terminal to accept M5 bolt		
Terminal tightening torque	30.4±6.1 Kgf·cm / 26.4±5.3 Lbf·in / 3.0±0.6 N·m		
Container Material	ABS (UL 94-HB)		
Dimensions	Length (L)	181.0±2.0 mm	7.12±0.08 inch
	Width (W)	76.0±1.0 mm	2.99±0.04 inch
	Container Height (h)	165.0±2.0 mm	6.50±0.08 inch
	Overall Height (H)	165.0±2.0 mm	6.50±0.08 inch



Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	30MIN	45MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	20.6	15.4	12.5	9.25	7.43	5.28	4.19	3.45	2.95	2.30	1.89	1.09
1.67V	20.0	15.0	12.3	8.99	7.25	5.15	4.10	3.35	2.86	2.23	1.85	1.06
1.70V	19.5	14.6	11.9	8.76	7.04	5.02	3.99	3.26	2.79	2.18	1.80	1.04
1.75V	18.9	14.2	11.6	8.50	6.79	4.85	3.85	3.16	2.71	2.12	1.75	1.00
1.80V	18.2	13.6	11.1	8.17	6.50	4.68	3.69	3.03	2.59	2.03	1.68	0.96
1.85V	17.4	13.0	10.6	7.84	6.22	4.49	3.52	2.89	2.48	1.95	1.62	0.92

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

F.V/Time	30MIN	45MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.60V	247	184	150	111	88.7	63.4	50.3	41.4	35.4	27.6	22.7	12.3
1.67V	240	180	147	108	86.2	61.6	48.9	40.2	34.3	26.8	22.0	11.9
1.70V	233	175	143	105	83.7	60.0	47.5	39.1	33.4	26.0	21.5	11.7
1.75V	226	169	138	101	80.6	58.1	45.9	37.6	32.2	25.2	20.8	11.3
1.80V	218	163	133	98.0	77.4	56.1	44.3	36.3	31.1	24.3	20.1	10.8
1.85V	209	156	127	94.0	74.4	53.8	42.3	34.6	29.7	23.3	19.3	10.4

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com

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