



EVX series

EVX 12200 12V 20AH

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)

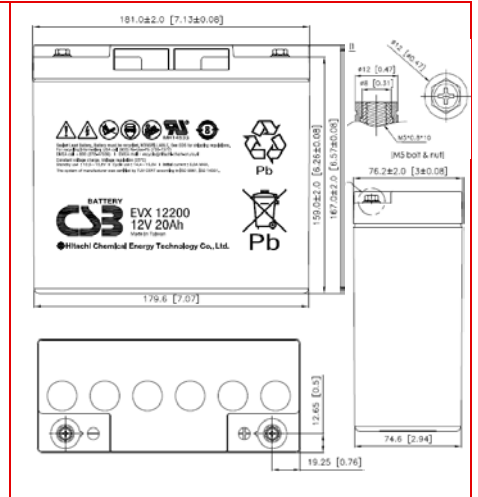
【Self Discharge】

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 PCS @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	--		
Maximum Charge Current	6.00A		
Terminal types	I1 terminal to accept M5 bolt		
Terminal hardware Torque	59 Kgf-cm / 51 lbf-in / 5.73 N-m		
Container Material	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request		
Dimensions	Length (L)	181.0±2.0 mm	7.13±0.08 inch
	Width (W)	76.2±1.0 mm	3.00±0.04 inch
	Container Height (h)	167.0±2.0 mm	5.67±0.08 inch
	Overall Height (H)	167.0±2.0 mm	5.67±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
1.67V	20.6	15.4	12.5	9.25	7.43	5.28	4.19	3.45	2.95	2.30	1.89	1.09
1.70V	20.0	15.0	12.3	8.99	7.25	5.15	4.10	3.35	2.86	2.23	1.85	1.06
1.75V	19.5	14.6	11.9	8.76	7.04	5.02	3.99	3.26	2.79	2.18	1.80	1.04
1.80V	18.9	14.2	11.6	8.50	6.79	4.85	3.85	3.16	2.71	2.12	1.75	1.00
1.83V	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
1.67V	247	184	150	111	88.7	63.4	50.3	41.4	35.4	27.6	22.7	12.3
1.70V	240	180	147	108	86.2	61.6	48.9	40.2	34.3	26.8	22.0	11.9
1.75V	233	175	143	105	83.7	60.0	47.5	39.1	33.4	26.0	21.5	11.7
1.80V	226	169	138	101	80.6	58.1	45.9	37.6	32.2	25.2	20.8	11.3
1.83V	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

Issued: 161101

Sales Offices

日立化成能源科技股份有限公司
Hitachi Chemical Energy Technology Co., Ltd.

BUSINESS HEADQUARTERS

Tel: +886-2-2880-5600

Fax: +866-2-2888-3300

USA OFFICE

Tel: +1-817-244-7777 / 1-(800)3-CSB-USA (272872)

Fax: +1-817-244-4445

SHENZHEN OFFICE (CHINA)

Tel: +86-755-8831-6488, 8831-6775

Fax: +86-755-8831-6075

EUROPE (EMEA) OFFICE

Tel: +31(0)180-418-140

Fax: +31(0)180-418-327

SHANGHAI OFFICE (CHINA)

Tel: +86-21-5046-1622, 5046-0833

Fax: +86-21-5046-1046

TAIPEI OFFICE

Tel: +886-2-2880-5600

Fax: +866-2-2888-3300

BEIJING OFFICE (CHINA)

Tel: +86-10-5820-5336, 5820-5338

Fax: +86-10-5820-3053

Recognized under UL 1989,
and certified by ISO 9001, 14001.

