



# EVX series EVX 12120



## Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

### General 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)

#### 【Certification】

IEC 60254-1:2005 / IEC60254-2:2008

#### 【Equalization Charging Voltage】

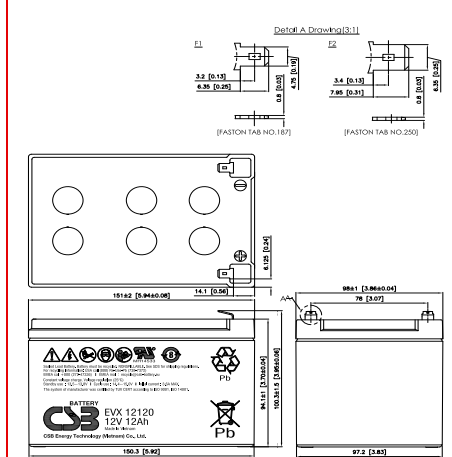
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

#### 【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	12 AH @20HR-rate to 1.75V per cell @25°C (77°F)	
Weight	Approx. 3.83 Kg (8.44 lbs)	
Maximum Discharge Current	150/180A (5sec)	
Internal Resistance	Approx. 15.4 mΩ	
Short Circuit Current	--	
Maximum Charge Current	3.60A	
Terminal types	F1/F2-Faston Tab187/250	
Terminal tightening torque	--	
Container Material	ABS (UL 94-HB)	
Dimensions	Length (L)	151.0±2.0 mm      5.94±0.08 inch
	Width (W)	98.0±1.0 mm      3.86±0.04 inch
	Container Height (h)	94.1±1.0 mm      3.70±0.04 inch
	Overall Height (H)	100.3±1.5 mm      3.95±0.06 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	12.8	9.38	7.52	5.46	4.32	3.14	2.45	2.06	1.75	1.36	1.13	0.66
1.67V	12.7	9.30	7.45	5.45	4.29	3.10	2.44	2.05	1.74	1.35	1.12	0.63
1.70V	12.6	9.23	7.40	5.41	4.28	3.09	2.43	2.04	1.73	1.34	1.11	0.62
1.75V	12.4	9.14	7.36	5.36	4.25	3.07	2.41	2.01	1.71	1.33	1.09	0.60
1.80V	12.0	8.89	7.18	5.28	4.17	3.00	2.38	1.99	1.70	1.32	1.07	0.59
1.85V	11.3	8.46	6.89	5.08	3.99	2.90	2.30	1.92	1.64	1.27	1.04	0.57

### 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	146	107	86.1	63.4	50.5	36.8	29.3	24.4	20.8	16.2	13.4	7.13
1.67V	146	107	85.7	62.9	50.1	36.6	29.1	24.3	20.7	16.1	13.3	7.09
1.70V	144	106	85.2	62.7	50.0	36.4	28.9	24.2	20.6	16.0	13.2	7.06
1.75V	143	105	84.9	62.3	49.5	36.2	28.8	23.9	20.4	15.9	13.1	7.01
1.80V	140	103	83.5	61.2	49.0	35.7	28.5	23.7	20.2	15.7	12.9	6.87
1.85V	132	98.5	80.0	59.4	47.4	34.5	27.7	23.0	19.6	15.2	12.5	6.66

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.cn](http://www.csb-battery.cn)

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Recognized under UL 1989,  
and certified by ISO 9001, 14001, 45001, 50001.



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