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# EVX 12200 ▶ 12V 20Ah

EVX 12200 is designed specially for electric vehicles, such as electric golf cart, electric wheelchair, mower, dust collector...etc. It has high cycling life, high efficiency and long service life.



## ► Specification

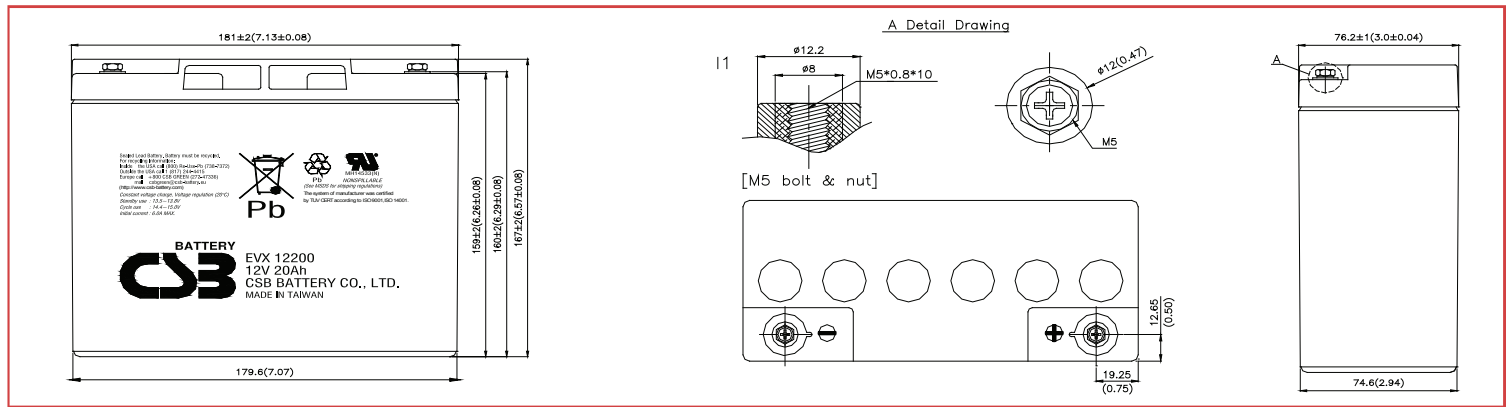
Cells Per Unit	6
Voltage Per Unit	12
Capacity	20Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx 6.7 kg (14.7lbs)
Maximum Discharge Current	230A(5sec)
Internal Resistance	Approx. 14 mΩ
Operating Temperature Range	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15 °C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C(77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C(77°F)
Recommended Maximum Charging Current Limit	6A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C(77°F)
Self Discharge	CSB Batteries can be stored for more than 6 months at 25°C(77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	I1-Thread lead alloy recessed terminal to accept M5 bolt
Container Material	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



CSB-manufactured **VRLA (Absorbent Glass Mat type)** batteries are UL-recognized components under UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

Dimensions :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	167±2 (6.57±0.08)	160±2 (6.29±0.08)	181±2 (7.13±0.08)	76.2±1 (3.0±0.04)



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

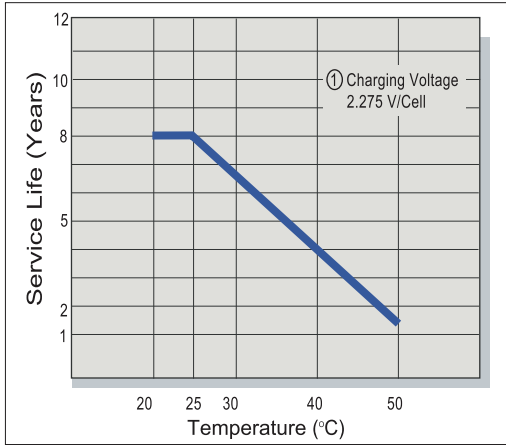
F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	20.6	12.5	9.25	7.43	5.28	4.19	3.45	2.30	1.89	1.09
1.67V	20.0	12.3	8.99	7.25	5.15	4.10	3.35	2.23	1.85	1.06
1.70V	19.5	11.9	8.76	7.04	5.02	3.99	3.26	2.18	1.80	1.04
1.75V	18.9	11.6	8.50	6.79	4.85	3.85	3.16	2.12	1.75	1.00
1.80V	18.2	11.1	8.17	6.50	4.68	3.69	3.03	2.03	1.68	0.960
1.85V	17.4	10.6	7.84	6.22	4.49	3.52	2.89	1.95	1.62	0.920

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

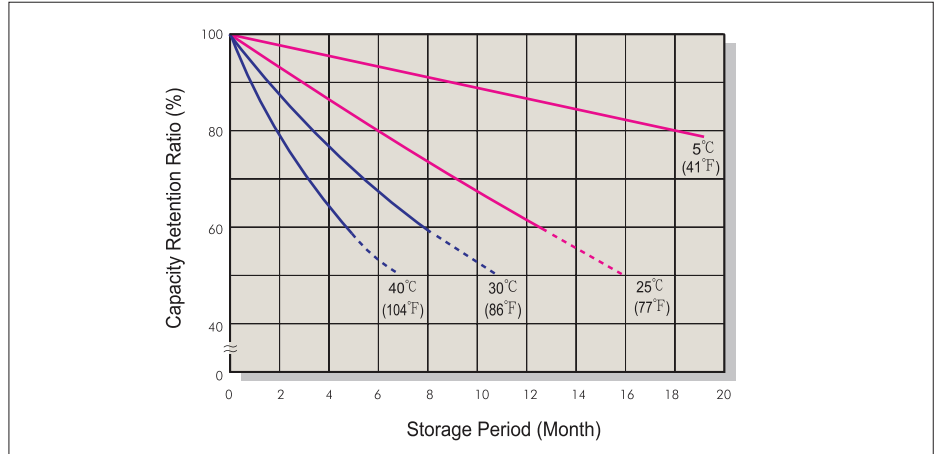
F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	247	150	111	88.7	63.4	50.3	41.4	27.6	22.7	12.3
1.67V	240	147	108	86.2	61.6	48.9	40.2	26.8	22.0	11.9
1.70V	233	143	105	83.7	60.0	47.5	39.1	26.0	21.5	11.7
1.75V	226	138	101	80.6	58.1	45.9	37.6	25.2	20.8	11.3
1.80V	218	133	98.0	77.4	56.1	44.3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

Ratings presented herein are subject to revision without notice. Please refer to [www.csb-battery.com](http://www.csb-battery.com) to confirm the latest version.

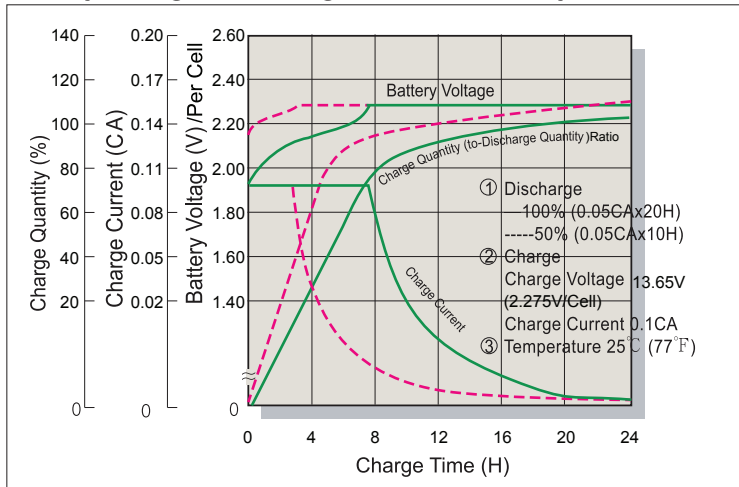
### Trickle (or Float) Service Life



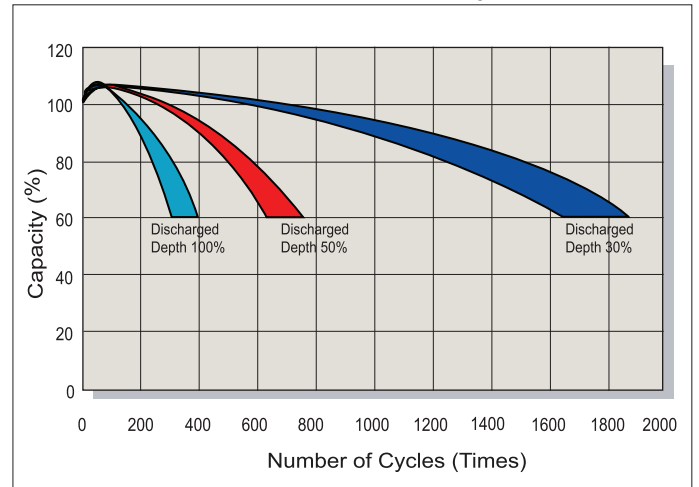
### Capacity Retention Characteristic



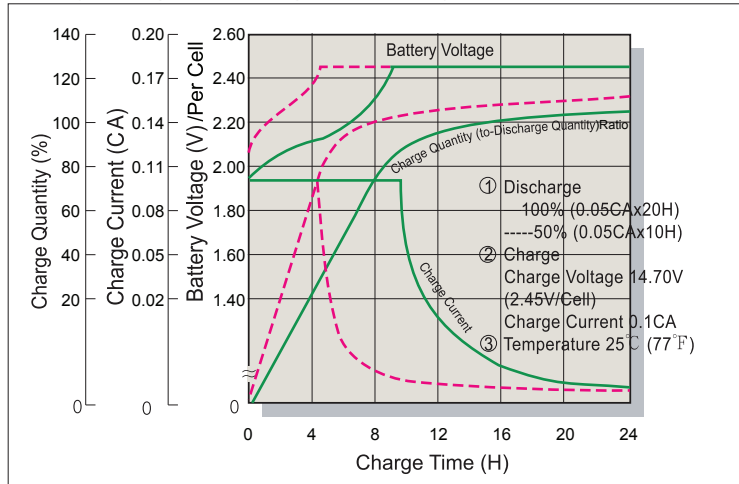
### Battery Voltage and Charge Time for Standby Use



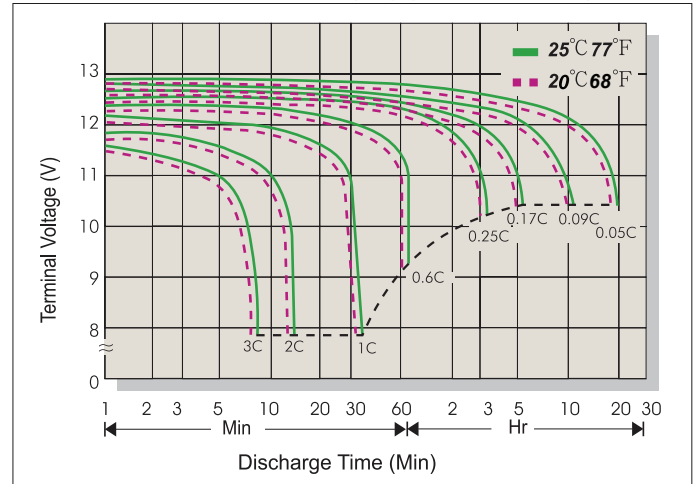
### Series Cycle Service Life



### Battery Voltage and Charge Time for Cycle Use



### Terminal Voltage (V) and Discharge Time



### Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.3C
Standby	25°C(77°F)	2.275	2.25~2.30	

### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

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