

Powered by



# EVX 12300 ▶ 12V 30Ah

EVX 12300 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	30Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 10.4kg (22.93 lbs)
Maximum Discharge Current	400A(5sec)
Internal Resistance	Approx. 9 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	9 A
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/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.

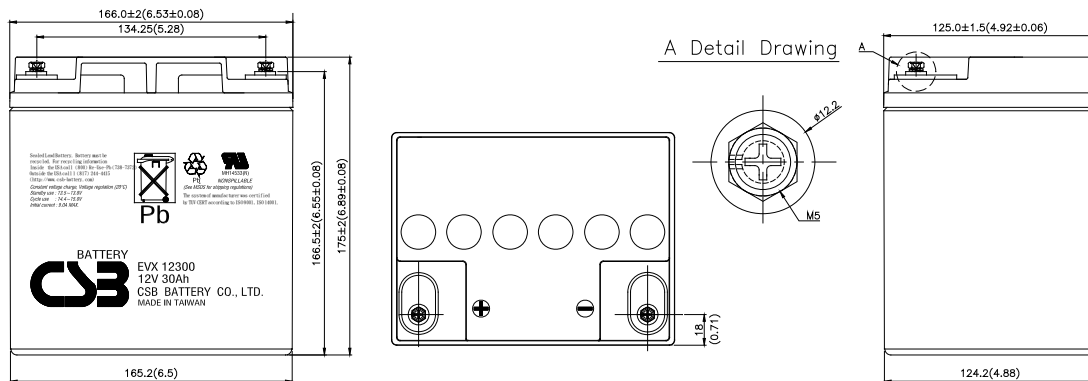


CSB-manufactured batteries are UL-recognized components under UL924 and UL1989. CSB is also certified by ISO 9001 and ISO 14001.

## Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
175±2 (6.89±0.08)	175±2 (6.89±0.08)	166.0±2 (6.53±0.08)	125.0±1.5 (4.92±0.06)



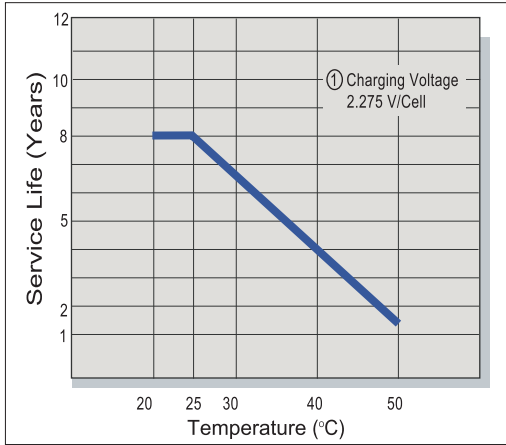
## Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	31.2	17.7	12.7	10.3	7.48	6.05	5.03	3.39	2.82	1.61
1.67V	30.6	17.3	12.3	9.94	7.26	5.87	4.90	3.29	2.75	1.58
1.70V	30.0	16.8	11.9	9.66	7.04	5.70	4.76	3.21	2.68	1.54
1.75V	29.2	16.3	11.6	9.38	6.83	5.54	4.64	3.12	2.61	1.50
1.80V	28.4	15.8	11.3	9.07	6.61	5.37	4.51	3.04	2.53	1.45
1.85V	27.6	15.3	10.9	8.79	6.40	5.21	4.39	2.94	2.46	1.41

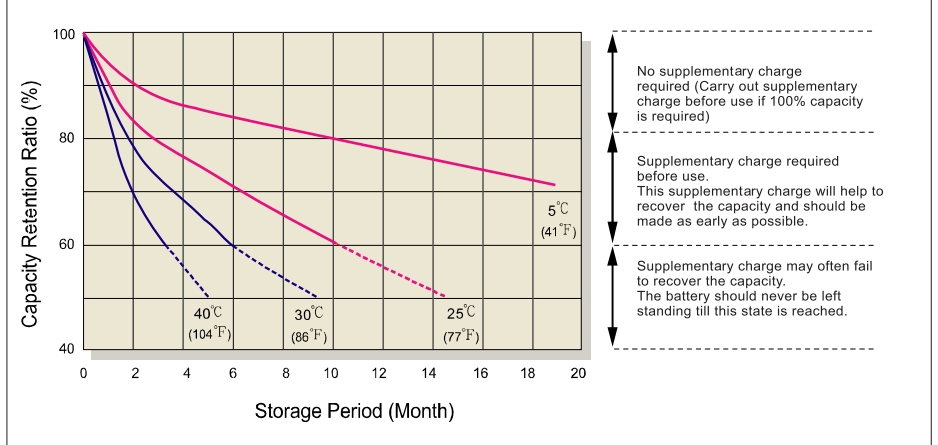
## Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	374	212	152	123	89.8	72.6	60.4	40.1	33.1	17.3
1.67V	367	207	147	120	87.1	70.4	58.6	39.1	32.2	16.8
1.70V	359	202	143	116	84.5	68.4	57.1	38.1	31.4	16.4
1.75V	351	196	139	112	81.9	66.4	55.6	37.0	30.5	15.9
1.80V	341	190	135	109	79.3	64.4	54.1	35.9	29.5	15.4
1.85V	332	184	131	105	76.7	62.4	52.6	34.7	28.4	14.9

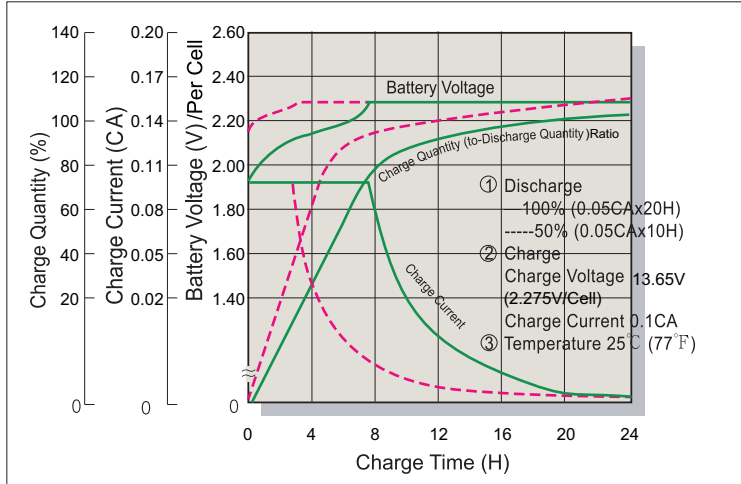
### Trickle (or Float) Service Life



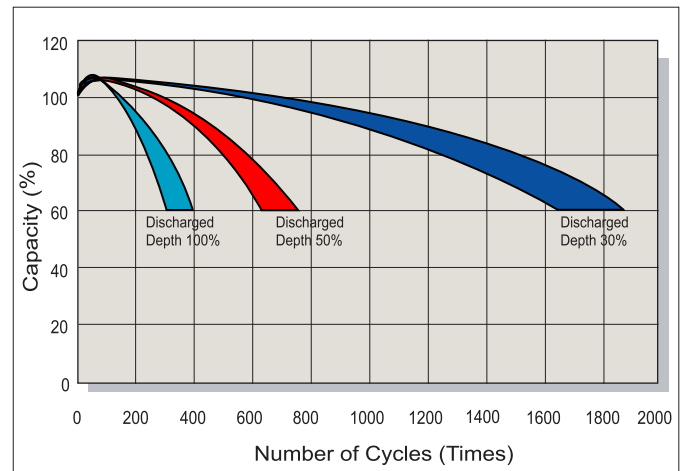
### Capacity Retention Characteristic



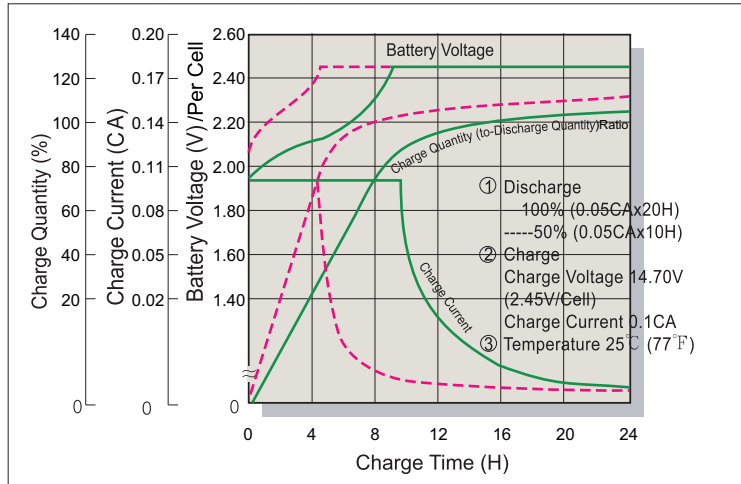
### Battery Voltage and Charge Time for Standby Use



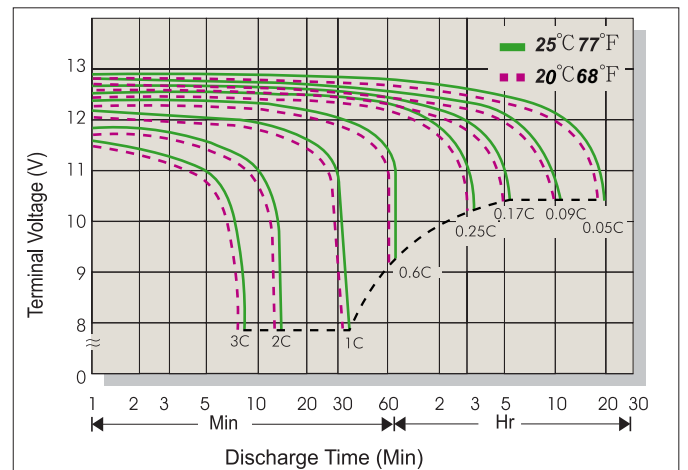
### Series Cycle Service Life



### 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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