



**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】**

350 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)

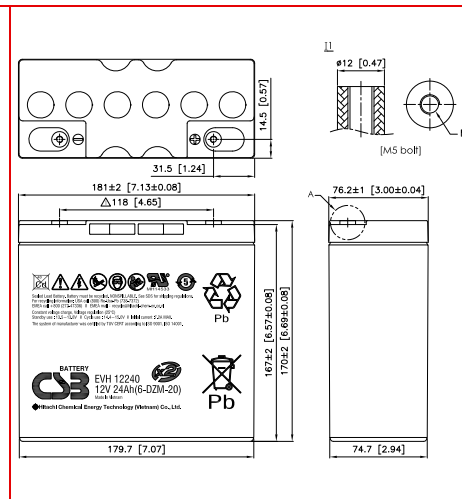
**【Self Discharge】**

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	24 Ah @20hr-rate to 1.75V per cell @25°C (77°F)	
Weight	Approx. 7.55 Kg (16.64 lbs)	
Maximum Discharge Current	320 A (5sec)	
Internal Resistance	Approx. 8.6 mΩ	
Short Circuit Current	--	
Maximum Charge Current	7.20 A	
Terminal type	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) & 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)	170.0±2.0 mm / 6.69±0.08 inch
	Overall Height (H)	170.0±2.0 mm / 6.69±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	29.9	22.0	17.7	13.0	10.3	7.50	5.84	4.84	3.83	3.16	2.57	1.31
1.67V	29.6	21.7	17.5	12.9	10.2	7.44	5.83	4.78	3.80	3.15	2.56	1.30
1.70V	29.4	21.6	17.4	12.8	10.1	7.41	5.82	4.77	3.79	3.14	2.55	1.29
1.75V	29.0	21.3	17.2	12.7	10.0	7.32	5.74	4.73	3.74	3.09	2.52	1.28
1.80V	28.4	21.1	17.0	12.5	9.98	7.16	5.65	4.64	3.69	3.06	2.49	1.27
1.85V	27.0	20.2	16.2	11.9	9.56	6.85	5.44	4.47	3.53	2.91	2.34	1.17

**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	346	257	208	154	123	88.9	69.9	58.6	46.4	38.3	31.4	16.2
1.67V	343	257	207	153	122	88.7	69.8	57.6	45.9	38.1	31.2	16.1
1.70V	340	256	206	152	121	87.9	69.1	57.4	45.7	38.0	31.0	16.0
1.75V	338	255	205	151	120	87.3	68.4	56.9	45.4	37.8	30.7	15.9
1.80V	331	247	199	147	118	85.1	67.1	55.9	44.7	37.2	30.3	15.7
1.85V	313	240	193	142	115	82.9	65.3	54.4	43.4	36.1	29.6	15.4

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

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

