



EVX series EVX 12400



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】

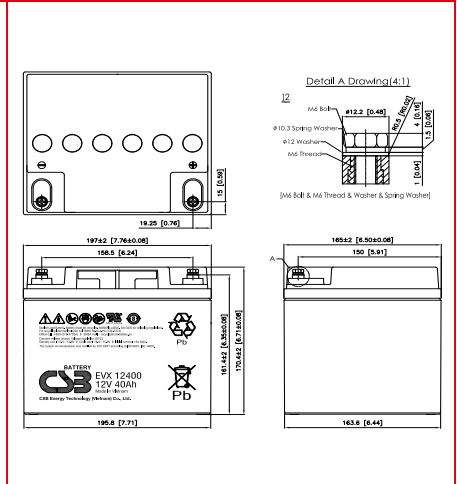
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

【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	40 AH @20HR-rate to 1.75V per cell @25°C (77°F)		
Weight	Approx. 13.20 Kg (29.07 lbs)		
Maximum Discharge Current	400A (5sec)		
Internal Resistance	Approx. 8.2 mΩ		
Short Circuit Current	--		
Maximum Charge Current	12.00A		
Terminal types	I2 terminal to accept M6 bolt		
Terminal tightening torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m		
Container Material	ABS (UL 94-HB)		
Dimensions	Length (L)	197.0±2.0 mm	7.76±0.08 inch
	Width (W)	165.0±2.0 mm	6.50±0.06 inch
	Container Height (h)	170.4±2.0 mm	6.71±0.08 inch
	Overall Height (H)	170.4±2.0 mm	6.71±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	38.1	28.3	22.9	16.8	13.4	9.75	7.76	6.42	5.50	4.31	3.59	2.17
1.67V	37.0	27.5	22.3	16.3	13.0	9.47	7.52	6.24	5.34	4.18	3.49	2.12
1.70V	35.8	26.7	21.7	15.8	12.7	9.17	7.33	6.07	5.19	4.05	3.40	2.05
1.75V	34.8	25.9	21.0	15.3	12.3	8.88	7.09	5.91	5.05	3.94	3.30	2.00
1.80V	33.7	25.1	20.3	14.8	11.9	8.58	6.89	5.70	4.88	3.82	3.17	1.94
1.85V	32.6	24.1	19.5	14.4	11.4	8.29	6.63	5.48	4.70	3.68	3.09	1.89

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	457	340	275	201	162	117	93.0	76.8	65.0	49.9	41.1	22.3
1.67V	444	330	268	196	157	113	90.1	74.6	63.1	48.4	40.0	21.6
1.70V	430	320	260	189	152	110	87.6	72.3	61.1	46.9	38.8	20.9
1.75V	417	311	252	184	147	107	84.5	69.9	59.2	45.5	37.6	20.3
1.80V	404	300	243	178	143	103	81.5	67.4	57.1	44.0	36.4	19.6
1.85V	391	290	235	173	138	99.5	78.9	64.9	55.1	42.6	35.2	19.0

Please refer to the official site for the latest rating confirmation. URL: www.csb-battery.com

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



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