IEEE/UL Battery Sizing by MooreU 610-952-6067 www.mooreu.com

EVX Series

EVX 12300 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	30 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	24.96
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	30.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	24.32
Max Charge Current (A)	9.00
Max Discharge Current (A)	400
Short Circuit Current (A)	905
Internal Resistance (mΩ)	Approx. 7.9
Terminal Type	I1 terminal to accept M5 bolt
Terminal 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)
Weight (kg. / lb., Approx.)	10.40 / 22.92
Length (L) (mm / in)	166.0±2.0 / 6.54±0.08
Width (W) (mm / in)	125.0±1.5 / 4.92±0.06
Height (H) (mm / in)	175.0±2.0 / 6.89±0.08
Design Life	400 cycles @ 100%DOD at 25°C 1800 cycles @ 30%DOD at 25°C
Operating Temperature	Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F – 104°F)
Float Charging Voltage	--
Eq. Charging Voltage	14.4 - 15.0 Vdc/battery 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).

Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for E-mobility or deep cycling applications

Built in Accordance with IEC 60254-1:2005 / IEC60254-2:2008 and UL1989 Recognized (MH14533)

MH14533

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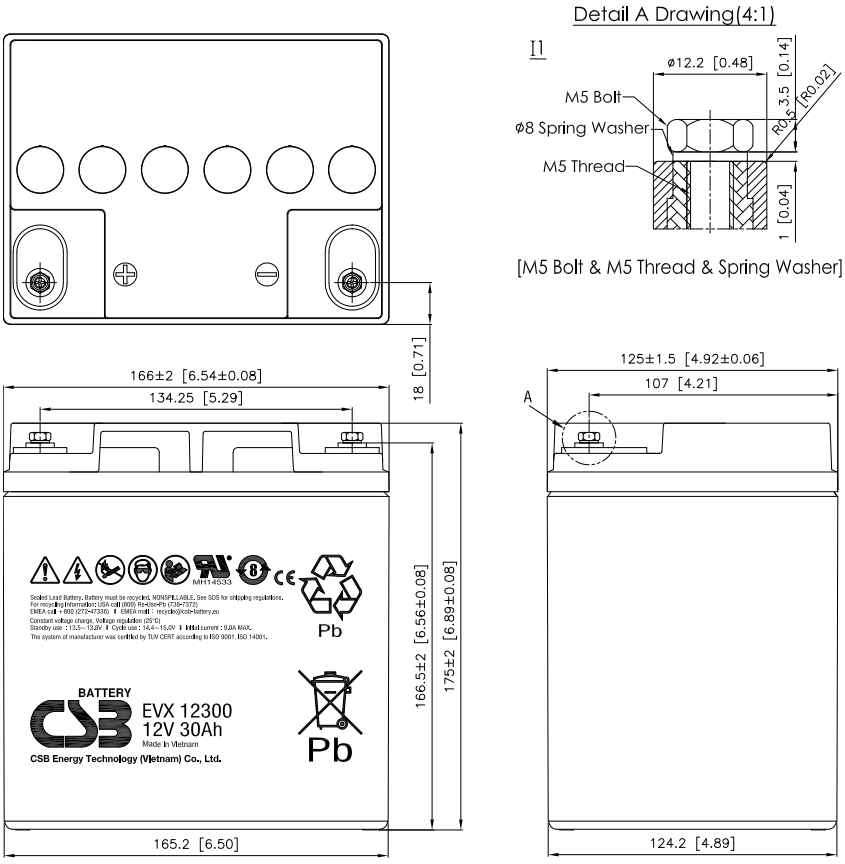
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**30MIN**	**45MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**4HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	30.6	21.9	17.3	12.3	9.94	7.26	5.87	4.90	4.20	3.29	2.75	1.58
10.50V (1.75 VPC)	29.2	20.8	16.3	11.6	9.38	6.83	5.54	4.64	3.98	3.12	2.61	1.50
10.80V (1.80 VPC)	28.4	20.2	15.8	11.3	9.07	6.61	5.37	4.51	3.87	3.04	2.53	1.45

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**
10.02V (1.67 VPC)	367	263	207	147	120	87.1	70.4	58.6	50.1	39.1	32.2	16.8
10.50V (1.75 VPC)	351	250	196	139	112	81.9	66.4	55.6	47.5	37.0	30.5	15.9
10.80V (1.80 VPC)	341	242	190	135	109	79.3	64.4	54.1	46.1	35.9	29.5	15.4



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