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

EVX Series

EVX 12650 Datasheet

12V Top Terminal VRLA-AGM

Specifications

Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	65 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	59.36
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	66.20
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	58.24
Max Charge Current (A)	19.50
Max Discharge Current (A)	500
Short Circuit Current (A)	1568
Internal Resistance (mΩ)	Approx. 4.6
Terminal Type	I2 thread lead alloy terminal to accept M6 bolt
Terminal Torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.10±1.0 N·m
Container Material	PP (UL 94-HB)
Weight (kg. / lb., Approx.)	22.20 / 48.89
Length (L) (mm / in)	349.4±2.5 / 13.76±0.10
Width (W) (mm / in)	166.0±2.0 / 6.54±0.08
Height (H) (mm / in)	174.9±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

11F, No. 150, Sec. 4, Chengde Rd., Shilin Dist., Taipei City 111052, Taiwan (R.O.C.)
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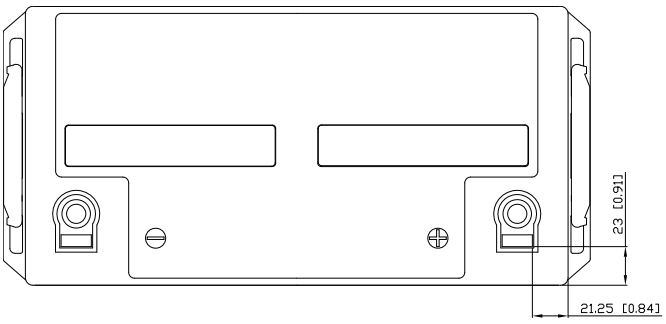
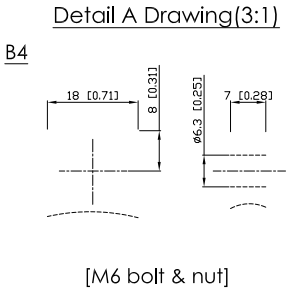
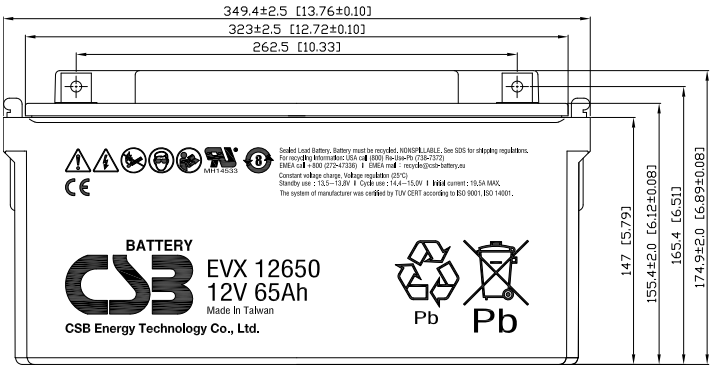
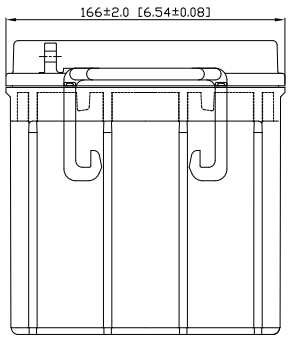
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**30MIN**	**45MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**4HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	69.9	51.2	41.1	29.8	23.7	16.9	13.3	11.0	9.50	7.54	6.28	3.35
10.50V (1.75 VPC)	68.3	50.2	40.4	29.4	23.4	16.7	13.1	10.8	9.34	7.42	6.16	3.31
10.80V (1.80 VPC)	65.7	48.7	39.4	28.8	23.0	16.4	12.9	10.7	9.22	7.28	6.04	3.23

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)	804	595	481	351	277	198	157	130	113	89.6	74.3	40.2
10.50V (1.75 VPC)	784	585	475	347	275	196	155	128	111	88.2	73.2	39.7
10.80V (1.80 VPC)	759	571	467	342	270	193	151	127	110	86.9	72.0	38.9









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