EVX Series

EVX 12520 Datasheet

12V Top Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	52 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	50.72
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	54.4
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	49.76
Max Charge Current (A)	15.60
Max Discharge Current (A)	500
Short Circuit Current (A)	1391
Internal Resistance (mΩ)	Approx. 5.2
Terminal Type	B4 terminal to accept M6 bolt
Terminal Torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m
Container Material	PP (UL 94-HB)
Weight (kg. / lb., Approx.)	17.87 / 39.39
Length (L) (mm / in)	228.0±2.5 / 8.98±0.10
Width (W) (mm / in)	138.4±1.5 / 5.45±0.06
Height (H) (mm / in)	219.3±2.5 / 8.63±0.10
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

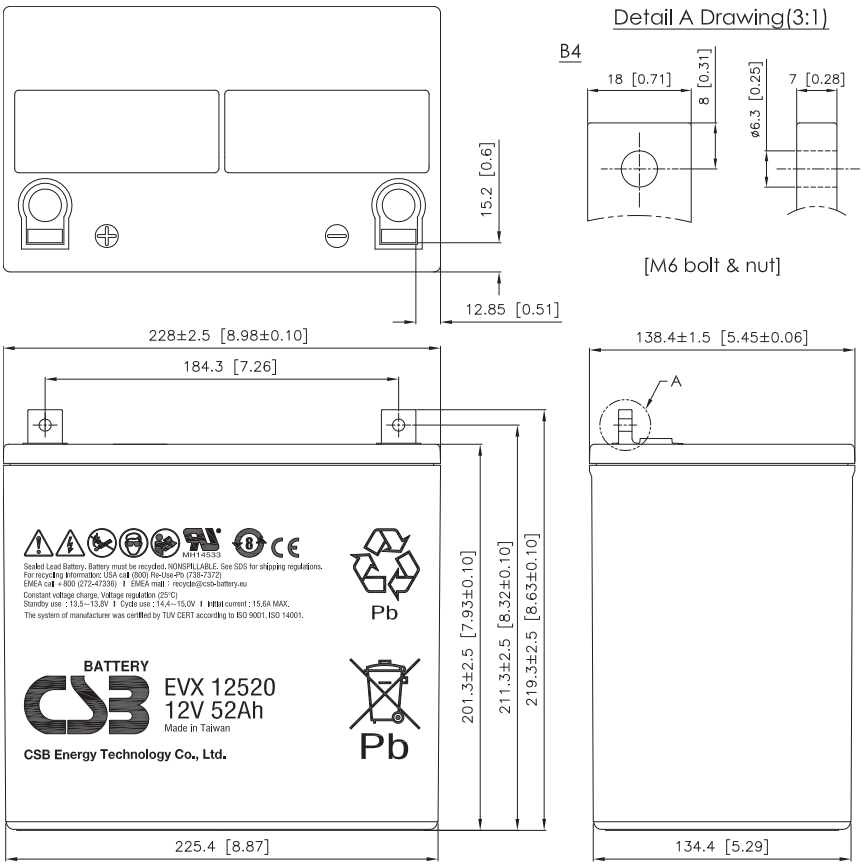
Built in Accordance with IEC 60254-1:2005 / IEC60254-2:2008 and UL1989 Recognized (MH14533)

MH14533

EVX Series

EVX 12520 Datasheet

12V Top Terminal VRLA-AGM

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)	63.5	45.9	36.4	26.8	20.8	14.6	11.6	9.52	8.22	6.52	5.36	2.80
10.50V (1.75 VPC)	60.6	44.1	35.2	26.1	20.3	14.3	11.4	9.37	8.05	6.34	5.21	2.72
10.80V (1.80 VPC)	59.2	43.3	34.7	25.6	20.1	14.2	11.3	9.26	7.94	6.22	5.12	2.68

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)	656	478	382	281	219	153	123	101	87.7	70.2	58.1	33.1
10.50V (1.75 VPC)	631	463	372	273	214	151	121	99.0	85.9	68.6	56.7	31.8
10.80V (1.80 VPC)	615	455	368	269	212	150	120	98.1	84.9	67.6	55.8	31.1