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

EVH Series

EVH 12390 Datasheet

12V Top Terminal VRLA-AGM

Specifications

Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	39 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	35.68
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	39.20
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	35.20
Max Charge Current (A)	11.70
Max Discharge Current (A)	400
Short Circuit Current (A)	987.5
Internal Resistance (mΩ)	Approx. 8.9
Terminal Type	B5 terminal to accept M6 nut & bolt
Terminal Torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.10±1.0 N·m
Container Material	ABS (UL 94-HB)
Weight (kg. / lb., Approx.)	11.50 / 25.35
Length (L) (mm / in)	195.6±2.0 / 7.70±0.08
Width (W) (mm / in)	130.0±1.5 / 5.12±0.06
Height (H) (mm / in)	178.3±2.0 / 7.02±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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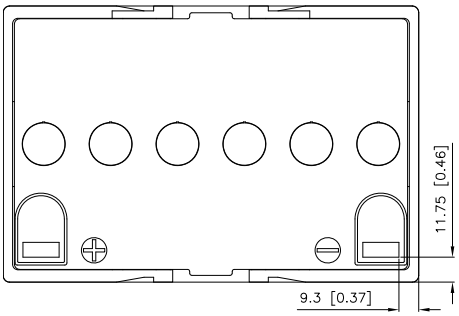
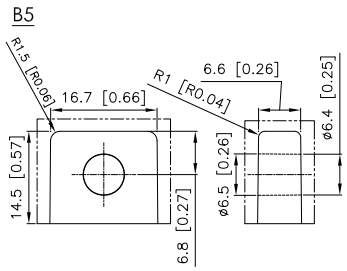
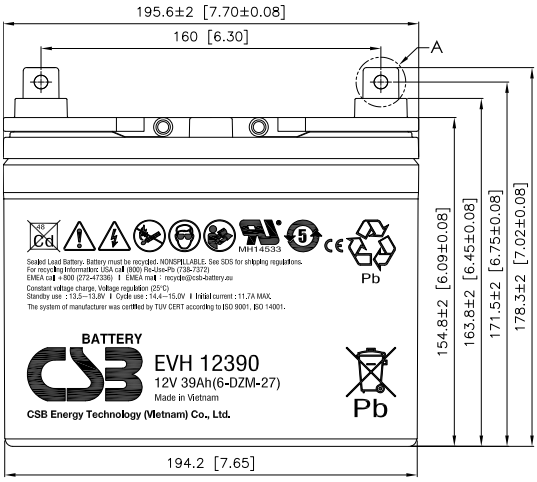
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**30MIN**	**45MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**4HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	38.5	27.7	22.9	17.5	14.2	10.3	8.19	6.87	5.51	4.60	3.81	2.06
10.50V (1.75 VPC)	36.4	26.6	22.0	16.8	13.7	10.1	8.04	6.71	5.36	4.46	3.67	1.96
10.80V (1.80 VPC)	35.4	26.0	21.6	16.6	13.50	9.93	7.94	6.62	5.29	4.40	3.60	1.91

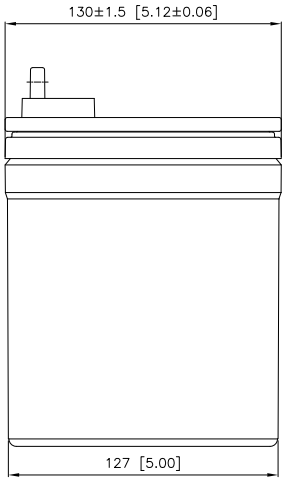
Constant Power Discharge Characteristics Unit: W (25°C, 77°F)												
F.V/Time	**30MIN**	**45MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**4HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	463	335	276	210	170	123	98.1	82.4	66.2	55.3	45.6	24.8
10.50V (1.75 VPC)	438	319	265	204	166	120	96.2	80.5	64.4	53.6	44.0	23.5
10.80V (1.80 VPC)	425	312	260	201	163	119	95.0	79.4	63.4	52.8	43.3	22.9



Detail A Drawing(3:1)







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