



EVH Series

EVH12390 Datasheet

12V Top Terminal VRLA-AGM

Specifications

Voltage (Vdc)	12V
Ah Capacity (8HR to 1.75VPC @25°C)	35.68
Ah Capacity (20HR to 1.75VPC @25°C)	39.20
Ah Capacity (8HR to 1.80VPC @25°C)	35.20
Max Charge Current (A)	11.70
Max Discharge Current (A)	400
Short Circuit Current (A)	987.5 (5 sec)
Internal Resistance (mΩ)	Approx. 8.9 Ω
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. 11.50kg / 25.35lb
Length (L) (mm / in)	195.6 ± 2.0mm / 7.70 ± 0.08in
Width (W) (mm / in)	130.0 ± 1.5mm / 5.12 ± 0.06in
Height (H) (mm / in)	178.3 ± 2.0mm / 7.02 ± 0.08in
Design Life	400 cycles @ 100% DOD @ 25°C (77°F) 1800 cycles @ 30% DOD @ 25°C (77°F)
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 & 10 months with equalization charge @ 25°C (77°F). Full recharge required before use. Charge sooner if stored above 25°C (77°F).



KEY FEATURES

- 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

APPLICATIONS

- Designed for E-Mobility or Deep Cycling Power Applications

SAFETY & COMPLIANCE

- Built in Accordance with IEC 60254-1:2005 & IEC 60254-2:2008
- UL1989 Recognized (MH14533)
- Certified by TUV NORD according to ISO 9001:2015





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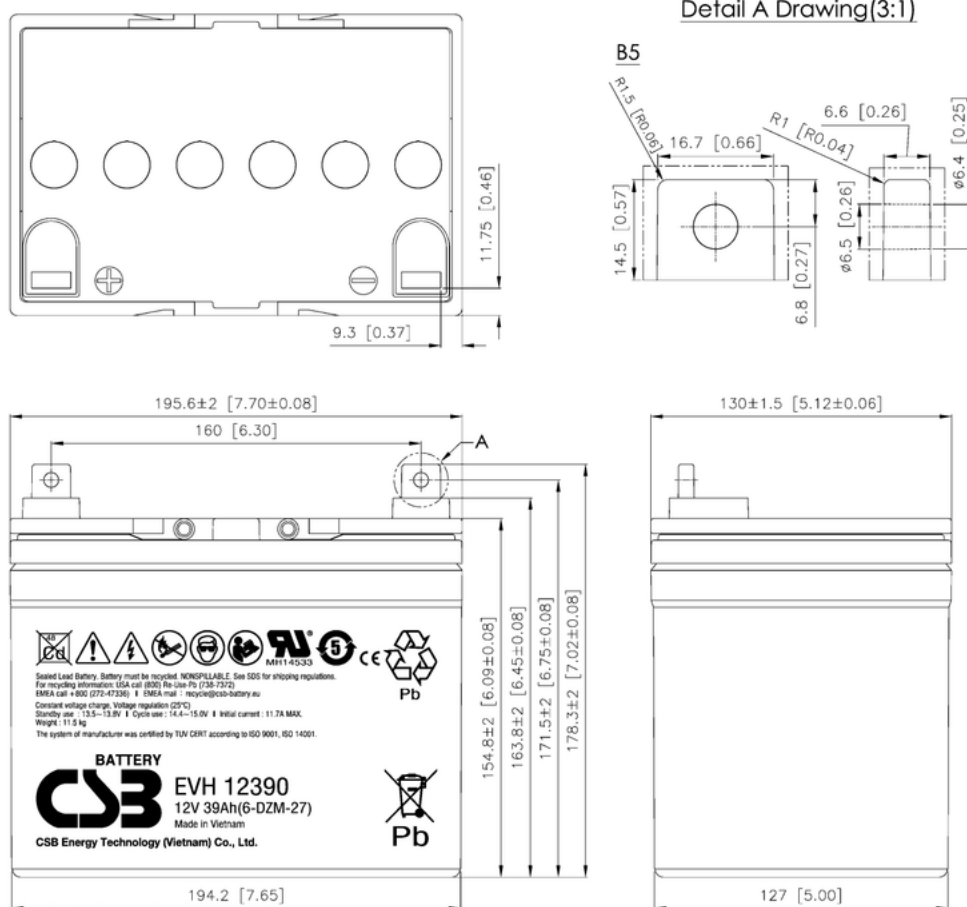
Constant Current Discharge Characteristics Per Battery: Amperes (25°C / 77°F)

F.V/Time	30MIN	45MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
10.02V (1.67VPC)	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 (1.75VPC)	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 (1.80VPC)	35.4	26.0	21.6	16.6	13.5	9.9	7.94	6.62	5.29	4.40	3.60	1.91

Constant Power Discharge Characteristics Per Battery: Watts (25°C / 77°F)

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

Line Drawing



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