



# EVX Series

## EVX12400 Datasheet

12V Top Terminal VRLA-AGM

### Specifications

Voltage (Vdc)	12
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	31.52
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	40.00
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	30.56
Max Charge Current (A)	12.00
Max Discharge Current (A)	400 (5sec)
Short Circuit Current (A)	1082
Internal Resistance	Approx. 8.2 mΩ
Terminal Type	I2 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	ABS (UL 94-HB)
Weight (kg. / lb., Approx.)	13.20 / 29.07
Length (L) (mm / in)	197.0±2.0 / 7.76±0.08
Width (W) (mm / in)	165.0±2.0 / 6.50±0.08
Height (H) (mm / in)	170.4±2.0 / 6.71±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 and 10 months with equalization charge* at 25C (77F); Full recharging is required before usage, and charged sooner if stored at higher temperature than 25C (77F).



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, UL1973 Listed  
(MH66728) and UL1989  
Recognized (MH14533)

Certified by TUV NORD  
according to ISO 9001:2015





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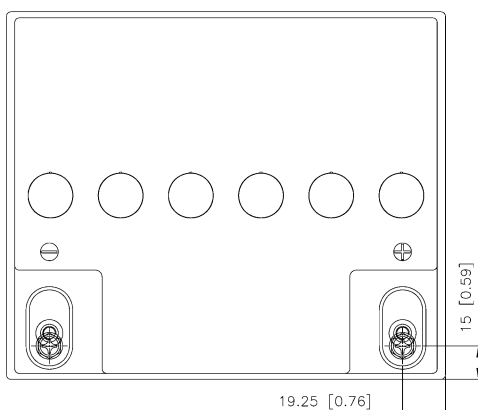
12V Top Terminal VRLA-AGM

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

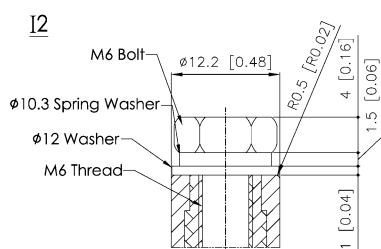
F.V/Time	30MIN	45MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
10.02V (1.67 VPC)	37.0	27.5	22.3	16.3	13.0	9.47	7.52	6.24	5.34	4.18	3.49	2.12
10.50V (1.75 VPC)	34.8	25.9	21.0	15.3	12.3	8.88	7.09	5.91	5.05	3.94	3.30	2.00
10.80V (1.80 VPC)	33.7	25.1	20.3	14.8	11.9	8.58	6.89	5.70	4.88	3.82	3.17	1.94

### 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 (1.67 VPC)	444	330	268	196	157	113	90.1	74.6	63.1	48.4	40.0	21.6
10.50V (1.75 VPC)	417	311	252	184	147	107	84.5	69.9	59.2	45.5	37.6	20.3
10.80V (1.80 VPC)	404	300	243	178	143	103	81.5	67.4	57.1	44.0	36.4	19.6



Detail A Drawing(4:1)



[M6 Bolt & M6 Thread & Washer & Spring Washer]

