



# XTV Series

## XTV 121100 Datasheet

12V Top Terminal VRLA-AGM



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 Float Service Standby Power Applications in Extreme Temperature Environments

Built in Accordance with IEC 60896-21/22:2004 and UL1989 Recognized (MH14533)



### Specifications

Voltage (Vdc)	12
Nominal Capacity (1.75 VPC @25°C)	110 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	102
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	110
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	101
Max Charge Current (A)	33
Max Discharge Current (A)	800
Short Circuit Current (A)	2648
Internal Resistance (mΩ)	Approx. 3.60
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 / 5.1±1.0 N·m
Container Material	PP (UL 94-HB) & Flame Retardant (94-V0) available upon request
Weight (kg. / lb., Approx.)	34.20 / 75.38
Length (L) (mm / in)	343.0±2.5 / 13.50±0.10
Width (W) (mm / in)	170.0±2.0 / 6.69±0.08
Height (H) (mm / in)	216.9±2.5 / 8.54±0.10
Design Life	Up to 12 Years in Standby Service at 25°C Eurobat (20°C): >12 Years Very Long Life
Operating Temperature	Nominal: 25°C (77°F) Discharge/Charge: -20°C - 50°C (-4°F-122°F) Storage: -15°C - 40°C (5°F - 104°F)
Float Charging Voltage	13.5 - 13.8 Vdc/battery 25°C (77°F)
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).



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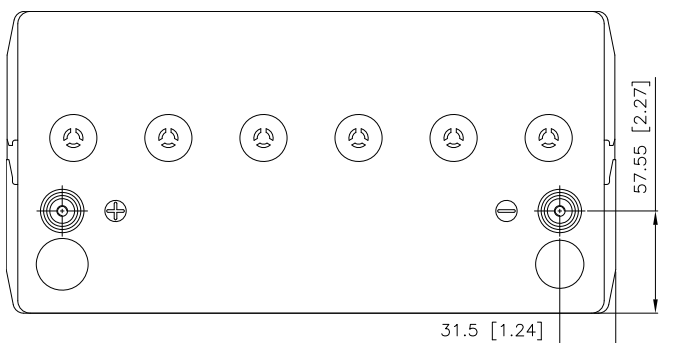
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### Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
10.02V (1.67 VPC)	382	289	227	135	77.5	55.4	43.5	30.8	19.9	13.0	10.6	5.52
10.50V (1.75 VPC)	339	254	207	130	75.6	54.0	42.5	30.3	19.5	12.8	10.4	5.50
10.80V (1.80 VPC)	289	232	188	123	72.3	52.1	41.2	29.4	18.9	12.6	10.2	5.33

### Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
10.02V (1.67 VPC)	3921	2975	2418	1515	884	635	502	361	235	154	125	66.6
10.50V (1.75 VPC)	3384	2783	2251	1464	862	622	493	356	231	152	123	65.7
10.80V (1.80 VPC)	2988	2573	2053	1411	827	600	479	346	228	149	122	64.9



Detail A Drawing(4:1)

