



XTV Series

XTV 121000 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)	100 Ah @20hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	90.4
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	100
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	89.7
Max Charge Current (A)	30
Max Discharge Current (A)	800
Short Circuit Current (A)	2258
Internal Resistance (mΩ)	Approx. 4.10
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.)	30.20 / 66.56
Length (L) (mm / in)	308.7±2.5 / 12.15±0.10
Width (W) (mm / in)	169.0±2.0 / 6.65±0.08
Height (H) (mm / in)	213.6±2.5 / 8.41±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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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)	328	242	188	114	67.2	48.7	38.4	27.4	17.5	11.5	9.47	5.02
10.50V (1.75 VPC)	282	212	173	110	65.5	47.7	37.6	26.9	17.3	11.3	9.38	5.00
10.80V (1.80 VPC)	243	193	157	104	63.0	46.3	36.5	26.1	16.8	11.2	9.16	4.84

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)	3382	2513	2029	1286	775	567	447	321	210	137	113	59.6
10.50V (1.75 VPC)	2932	2308	1880	1245	761	557	440	316	207	135	111	59.0
10.80V (1.80 VPC)	2572	2149	1727	1192	735	545	429	308	203	133	110	58.1

