



# XHRL Series

## XHRL12500W 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 High-Rate UPS, Float Service Standby Power Applications

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



### Specifications

Voltage (Vdc)	12
Nominal Capacity (10.02V per PCS @ 25°C)	500W @ 15min-rate
Watts Per Cell (30-Sec 1.67 VPC @ 25°C)	--
Watts Per Cell (5-Min 1.67 VPC @ 25°)	912.17
Watts Per Cell (15-Min 1.67 VPC @ 25°)	502.83
Max Charge Current (A)	50.00
Max Discharge Current (A)	1200 (5sec)
Short Circuit Current (A)	3685
Internal Resistance	Approx. 2.22 mΩ
Terminal Type	12 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.)	36.90 / 81.33
Length (L) (mm / in)	343.0±2.5 / 13.50±0.10
Width (W) (mm / in)	170.0±2.0 / 6.69±0.0
Height (H) (mm / in)	216.6±2.5 / 8.53±0.10
Design Life	Up to 10 Years in Standby Service at 25°C Eurobat (20°C): 12+ Years Very Long Life
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	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 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).



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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
10.02V (1.67 VPC)	700	567	512	472	401	350	264	210	151	107	83.5	58.9
10.50V (1.75 VPC)	592	486	449	412	359	317	247	199	146	104	81.7	58.1
10.80V (1.80 VPC)	514	434	397	369	324	288	231	187	139	100	79.3	57.1

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

F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
10.02V (1.67 VPC)	7118	5911	5473	5057	4377	3845	3017	2420	1774	1267	998	713
10.50V (1.75 VPC)	6352	5357	4941	4605	3986	3565	2847	2311	1722	1238	980	705
10.80V (1.80 VPC)	5765	4877	4516	4169	3676	3334	2677	2191	1652	1198	953	691

