



# XHRL Series

## XHRL12650W Datasheet

12V Top Terminal VRLA-AGM

### Specifications

Voltage (Vdc)	12
Nominal Capacity (10.02V per PCS @ 25°C)	650W @ 15min-rate
Watts Per Cell (30-Sec 1.67 VPC @ 25°C)	--
Watts Per Cell (5-Min 1.67 VPC @ 25°)	1054.83
Watts Per Cell (15-Min 1.67 VPC @ 25°)	651.83
Max Charge Current (A)	65.00
Max Discharge Current (A)	1350 (5sec)
Short Circuit Current (A)	4018
Internal Resistance	Approx. 2.33 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.)	47.90 / 105.57
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)	275.7±2.5 / 10.85±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).



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)





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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)	725	622	583	552	490	442	349	277	200	144	113	81.3
10.50V (1.75 VPC)	607	540	503	473	428	393	315	255	190	139	111	80.5
10.80V (1.80 VPC)	538	465	440	422	384	347	288	237	181	133	107	79.1

### 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)	7840	6754	6329	5959	5361	4882	3911	3179	2383	1740	1379	997
10.50V (1.75 VPC)	6857	6011	5718	5408	4894	4459	3623	2984	2278	1681	1342	981
10.80V (1.80 VPC)	6077	5461	5155	4917	4482	4083	3322	2776	2163	1612	1295	956

