



XHRL Series

XHRL12170W 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)	170W @ 15min-rate
Watts Per Cell (30-Sec 1.67 VPC @ 25°C)	--
Watts Per Cell (5-Min 1.67 VPC @ 25°)	321.33
Watts Per Cell (15-Min 1.67 VPC @ 25°)	173.67
Max Charge Current (A)	17.00
Max Discharge Current (A)	400 (5sec)
Short Circuit Current (A)	1243
Internal Resistance	Approx. 6.33 mΩ
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	ABS (UL 94-HB) & Flame Retardant (94-V0) available upon request
Weight (kg. / lb., Approx.)	13.58 / 29.94
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	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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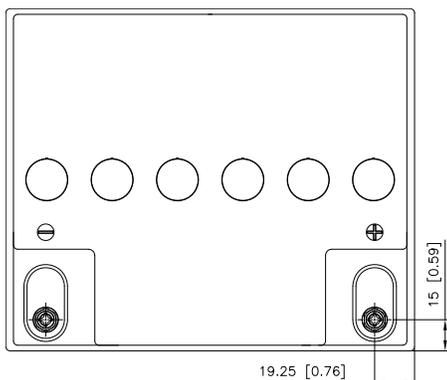
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Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

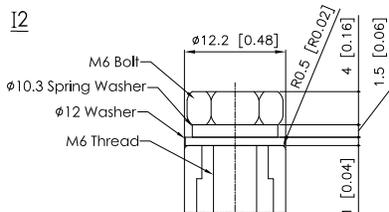
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	45MIN	60MIN	90MIN
10.02V (1.67 VPC)	257	204	187	173	147	128	95.9	77.0	55.6	40.1	31.8	22.9
10.50V (1.75 VPC)	215	177	162	150	133	117	90.8	73.4	53.9	39.3	31.2	22.6
10.80V (1.80 VPC)	177	156	146	137	121	107	84.4	68.7	51.5	38.1	30.4	22.1

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)	2616	2114	1928	1784	1578	1363	1042	844	627	461	366	265
10.50V (1.75 VPC)	2219	1872	1743	1644	1439	1265	990	810	611	453	361	263
10.80V (1.80 VPC)	2001	1707	1622	1530	1315	1169	922	765	588	440	353	258



Detail A Drawing(4:1)



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

