



**XHRL series**  
**XHRL 12475W 12V 475W**



**Valve Regulated Lead Acid Battery**

Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**Design for Standby Power Applications**

**【Design Life】**

Up to 10 Years in Standby Service at 25°C  
Eurobat (20°C) : 10-12 years, Long Life

**【Operating Temperature Range】**

Nominal Operating Temperature : 25°C (77°F)  
Discharge : -15°C ~ 50°C (5°F~122°F)  
Charge: -15°C ~ 40°C (5°F~104°F)  
Storage: -15°C ~ 40°C (5°F~104°F)

**【Float Charging Voltage】**

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

**【Equalization Charging Voltage】**

14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

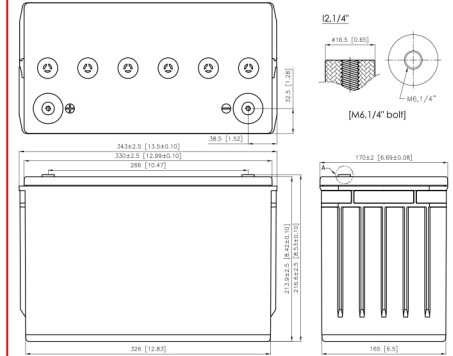
**【Self Discharge】**

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).

**Specification**

Design according with IEC 60896-21/22:2004

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	475W @15min-rate to 1.67V per cell @25°C (77°F)		
Weight	Approx. 36.20 Kg (79.78 lbs)		
Maximum Discharge Current	800A (5sec)		
Internal Resistance	Approx. 2.30 mΩ		
Short Circuit Current	3449A		
Maximum Charge Current	47.5A		
Terminal types	I2 (1/4") thread lead alloy terminal to accept M6 (1/4") bolt		
Terminal breaking Torque	138.6 (126) Kgf-cm / 120.3 (109.4) Lbf-in / 13.58 (12.35) N-m		
Container Material	Flame Retardant Polypropylene (UL 94-V0)		
Dimensions	Length (L)	343.0±2.5 mm	13.50±0.10 inch
	Width (W)	170.0±2.0 mm	6.69±0.08 inch
	Container Height (h)	213.9±2.5 mm	8.42±0.10 inch
	Overall Height (H)	216.9±2.5 mm	8.54±0.10 inch



**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
1.60V	768	601	559	501	422	365	270	215	156	110	85.7	60.4
1.67V	683	552	504	461	399	347	261	210	154	109	84.8	59.9
1.70V	647	519	479	441	387	336	256	206	152	108	84.2	59.6
1.75V	587	464	437	409	357	314	243	197	148	105	82.6	58.9
1.80V	500	411	397	370	322	288	225	185	140	101	79.7	57.2
1.85V	403	364	341	319	283	252	203	168	129	93.5	74.4	53.9

**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
1.60V	7700	6127	5630	5143	4414	3859	2940	2368	1746	1250	985	705
1.67V	7081	5758	5281	4846	4232	3700	2869	2323	1725	1238	978	701
1.70V	6811	5582	5081	4690	4122	3604	2824	2294	1711	1230	973	699
1.75V	6181	5133	4715	4399	3849	3403	2707	2216	1671	1208	959	693
1.80V	5589	4619	4317	4041	3513	3150	2524	2092	1605	1168	932	678
1.85V	4632	4129	3776	3509	3127	2859	2276	1916	1503	1099	880	644

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