

HXRL Series



The HRXL series VRLA batteries are designed to provide Extreme life in conventional temperature application as well as longer life than traditional VRLA batteries in high temperature applications. Perfectly suited to any application that requires a high rate current over a short period. The HRXL series combine proven high temperature technology to offer exceptional service life.

TECHNICAL FEATURES:

- Flame Retardant ABS Cover and Container, UL94 V-0, LOI>28%
- Patented copper alloy terminal design
- Epoxy TPS design for high reliability post seal
- 6 months of storage at 77°F (25°C) with a capacity > 80%
- Initial capacity at 100%
- Low pressure one-way flame arresting CATALYST valve(s) UL1989
- Optimized Grid Alloy, Separator and Pure Lead Paste
- Absorbent Glass Mat (AGM) Sealed Technology, Recombination efficiency of 99.9%

COMPLIANCE AND SAFETY:

- ISO 9001:2000 and ISO 14001:2004 certified production facilities
- UL Recognized Component 924, for use in or with listed UL1778, UL1989 and UL924 systems
- IEC60896-21/22 - BS6290 part 4 / Eurobatt guide
- Manufactured under system ISO9001(TUV)
- All batteries meet or exceed IEEE recommended practices

TRANSPORTATION:

- Classified as Nonspillable UN 2800 and meet the Nonspillable criteria listed in DOT-CFR Title 49, 171-189 (d) (3) (i) and (ii) and exempt from CFR 49, Subchapter C requirements
- Meets transportation conditions of IMDG exemption 238, IATA/ICAO Special Provision A67 (Not Restricted)

WPC @ 15 min 1.67 VPC / 77°F (25°C)	450 watts
WPC @ 5 min 1.67 VPC / 77°F (25°C)	1044 watts
Ah @ 20hr 1.75 VPC / 77°F (25°C)	140 Ah

Nominal Voltage	12V
Float Charge Voltage @25°C (2.23 – 2.27vpc)	13.4 – 13.6
Max. Charge Current (A) (5 hour rate @ 1.75vpc)	32 Amps

Electrolyte Absorbed H ₂ SO ₄	1.300
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Short Circuit Current (A)	4270 Amps
Internal Resistance (mΩ)	3.44

Terminal Type	Torque
M6-F (Top Insert)	78±5 in-lbs (8 ±1 Nm)

Dimension	In	mm
Length	13.3	337
Length Base	12.8	324
Width	6.81	173
Overall Height	10.9	278

Weight	Lbs.	Kg
	99	45

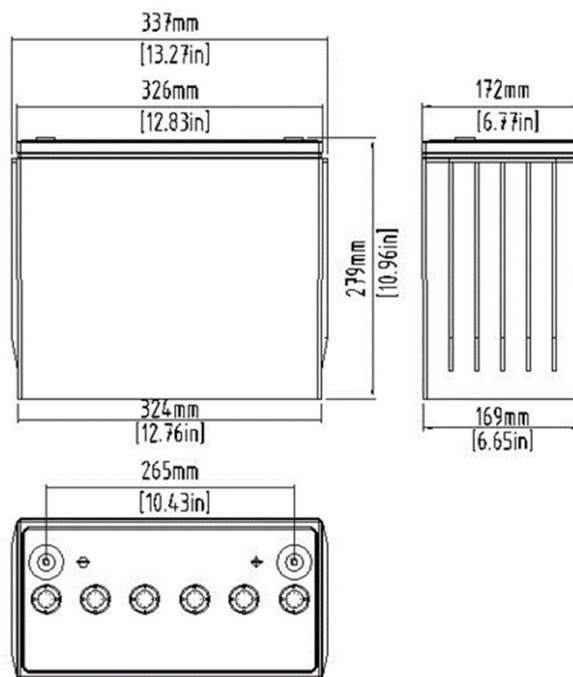
OPERATING PARAMETERS

Float Charging Voltage	13.5V / 2.25Vpc @ 77°F (25°C)
Equalize /Cycle	14.0V – 14.3V 2.33Vpc to 2.38Vpc @ 77°F (25°C)
See Operations and Maintenance Manual for specific guidelines and recharge times	

Charging Temperature Compensation	-2 mV/cell/°F > 77°F (-3.6 mV/cell /°C > 25°C)
	+2 mV/cell/°F < 77°F (+3.6 mV/cell/°C < 25°C)

Maximum AC Ripple (Charger)	0.5% RMS, 1.5% peak-to-peak for float charge voltage for best results
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Operating Temperature Range	
Nominal	+74°F (24°C) to 80°F (27°C)
Charge	-20°F (-28°C) to +122°F (50°C)
Discharge	-40°F (-40°C) to +140°F (60°C)
Storage Temperature Range	-4°F (-20°C) to +104°F (40°C)



Constant Power Discharge Watts per cell (25°C, 77°F)

End vpc	5min	10min	15min	20min	30min	45min	1h	2h
1.6	1096	758	577					
1.63	1075	743	566					
1.67	1044	722	550	449	343	253	199	111
1.7	1023	707	539	440	336	249	195	110
1.75	1002	693	528	432	329	241	189	109
1.8	970	671	511	418	319	236	185	105
1.83	908	628	478	391	298	231	181	104
1.85	866	599	456	373	285	224	175	102

Constant Current Discharge Amperes (25°C, 77°F)

End vpc	5min	10min	15min	20min	30min	40min	50min	1h	2h
1.60V	599	313	187						
1.67V	527	300	184	105	57.4	30.9	16.8	14.3	7.51
1.70V	498	293	181	104	57.2	30.8	16.7	14.2	7.46
1.75V	455	276	174	102	56.6	30.7	16.5	14.1	7.40
1.80V	412	251	163	98	55.6	30.5	16.4	14.0	7.35
1.83V	382	231	152	94	54.8	30.4	16.2	13.6	7.14
1.85V	353	214	144	92	54.5	30.3	15.8	13.1	6.88