



BLU SERIES

Sealed Lead-Acid Power Cell

Absorbant Glass Mat (AGM) technology for superior performance. Valve regulated, spill proof construction allows safe operation in any position. Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified. U.L. recognized under file number MH 20567.

UPG No. 40925

HC1400R-BLU

Specification

Nominal Voltage		12 volts	
Nominal Capacity		77° F (25° C)	
20-hr. (2.75A)		55.0 Ah	
10-hr. (5.12A)		51.2 Ah	
5-hr. (9.36A)		46.8 Ah	
1-hr. (33.0A)		33.0Ah	
Max. Wattage		1200 W	
Approximate Weight		38.6 lbs (17.5 kg)	
Internal Resistance (approx.)		10mΩ	
Shelf Life (% of normal capacity at 77° F (25° C)			
3 Months	6 Months	12 Months	
91%	82%	64%	
Temperature Dependency of Capacity		(20 hour rate)	
104° F	77° F	32° F	5° F
102%	100%	85%	65%
AGM Operational Temperature			
Charge		0°C to 40°C	
Discharge		-15°C to 45°C	
AGM Storage Temperature		-15°C to 40°C	



Due to continuous improvements to our products, product may vary slightly from depiction.

Charge Method (Constant Voltage)

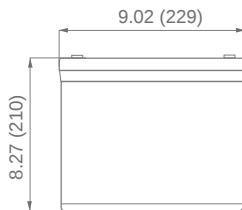
Cycle Use (Repeating Use)

Initial Current	16.5 A or smaller
Control Voltage	14.6-14.8 V

Float Use

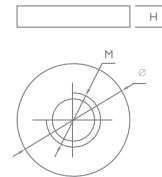
Control Voltage	13.6-13.8 V
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Physical Dimensions: in (mm)



L: 9.02 in (229 mm)
W: 5.43 in (138 mm)
H: 8.27 in (210 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

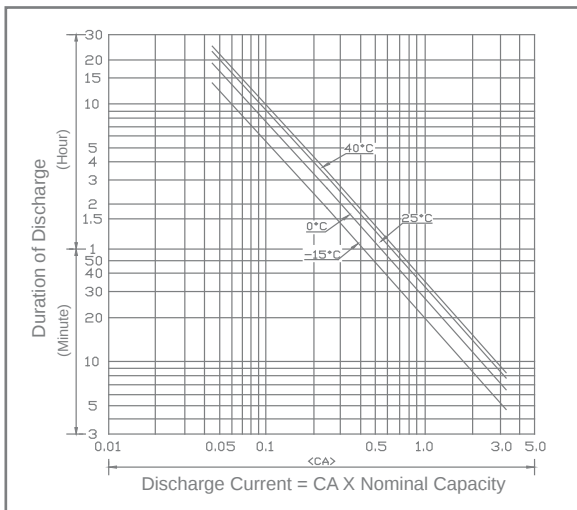
TERMINALS (Internal Thread 3/8")



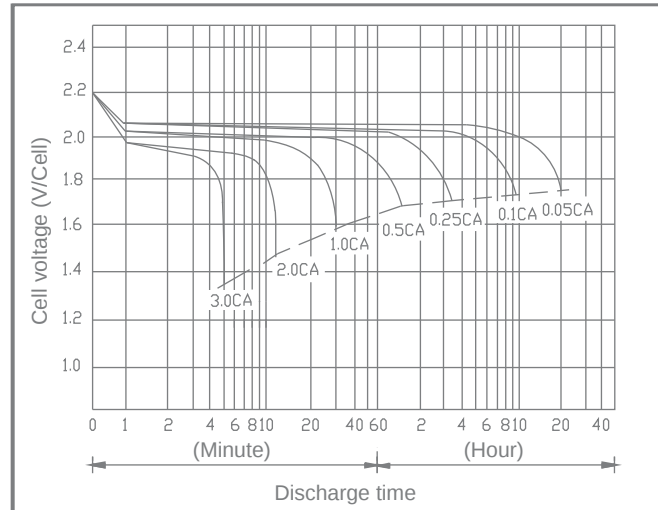
Type	Dimension	M	Ø	H
Internal Thread		7.88 mm .312 in	15.8 mm 0.62 in	3.68 mm 0.14 in

Polarity
Positive on Right

DISCHARGE TIME VS. DISCHARGE CURRENT



DISCHARGE CHARACTERISTICS



All specifications are subject to change without notice.



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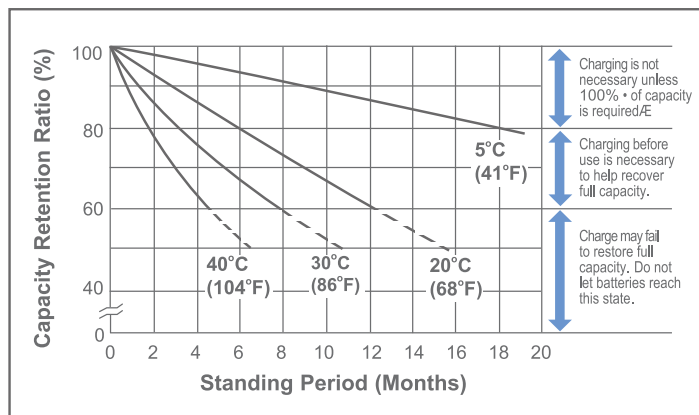
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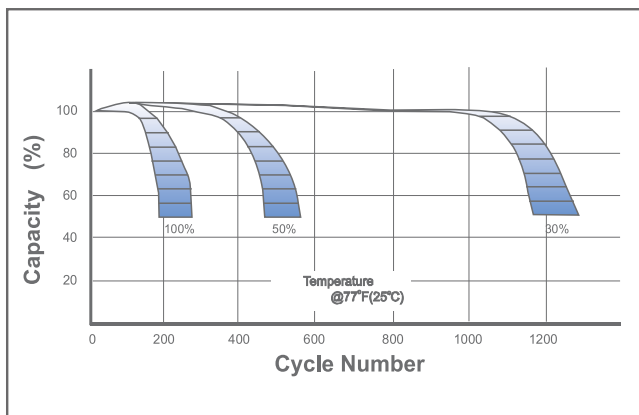
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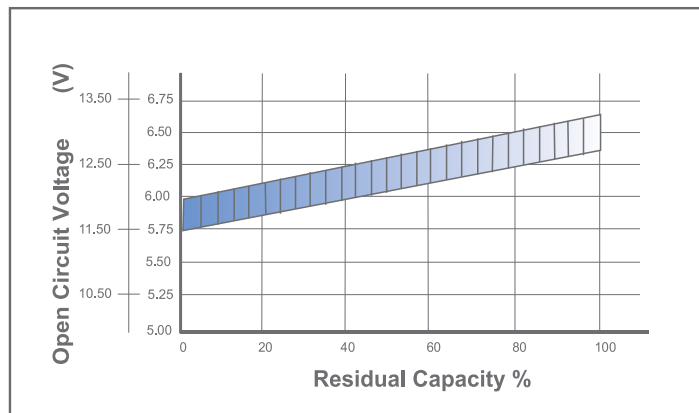
SHELF LIFE & STORAGE



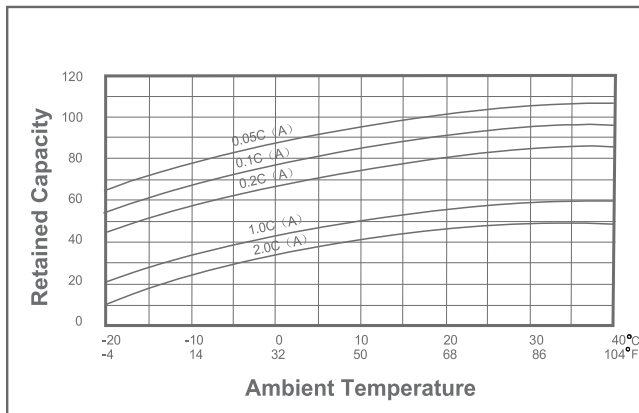
CYCLE LIFE VS DEPTH OF DISCHARGE



OPEN CIRCUIT VOLTAGE VS RESIDUAL CAPACITY



EFFECT OF TEMPERATURE ON CAPACITY



CHARGE CURRENT & FINAL DISCHARGE VOLTAGE

Application	Charge Voltage(V/Cell)			Max.Charge Current	Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
	Temperature	Set Point	Allowable Range						
Cycle Use	25°C(77°F)	2.45	2.43~2.47	0.30C	Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C
Standby	25°C(77°F)	2.28	2.27~2.30						

