

STAY POWERED®

universal battery® batteries featuring **Nano-Silica Construction** and **Nano-Silica Colloidal Electrolyte** are capable of up to 350 cycles at 100% depth of discharge. Nano-Silica has superior cycle life to Sealed Lead-Acid batteries. Compared to Gel batteries, Nano-Silica has better charge currents at 25% of capacity and higher discharge current up to C/2. A low Self-Discharge rate of 3% a month makes for a long shelf life.

Specifications:

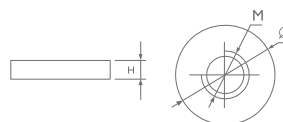
Nominal Voltage	12 Volts
Nominal Capacity	77° F (25° C)
20-hr. (1.30 A) (C/O 1.75V/Cell)	26.0 Ah
10-hr. (2.42 A) (C/O 1.75V/Cell)	24.2 Ah
5-hr. (4.42 A) (C/O 1.70V/Cell)	22.1 Ah
1-hr. (15.6 A) (C/O 1.70V/Cell)	15.6 Ah
Approximate Weight	17.0 lbs (7.7 kgs)
Operational Temperature	
Charge	-4°F to 140°F (-20°C to 60°C)
Discharge	-4°F to 140°F (-20°C to 60°C)
Storage Temperature	-4°F to 140°F (-20°C to 60°C)
Charge Method (Constant Voltage)	
Cycle Use (Repeating Use)	
Initial Current	6.5 A or smaller
Control Voltage	14.40 - 15.00 V
Float Use	
Control Voltage	13.5 - 13.8 V
Self Discharge Rate	<3% per month @ 25 C
Container Material	ABS (UL94-HB)



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

Terminals

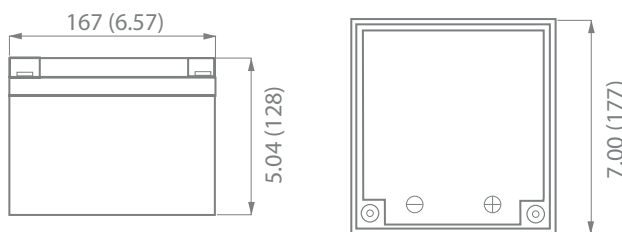
I Series (Internal Thread)



Type	Dimension	M	Ø	H
I 2		6.00 mm 0.24 in	15.0 mm 0.59 in	3.00 mm 0.12 in

Physical Dimensions: in (mm)

Tolerances are: +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions.



L: 6.57 in (167 mm)
W: 7.00 in (177 mm)
H: 5.04 in (128 mm)
TH: 5.04 in (128 mm)

Tolerances are:
 +/- 0.04 in. (+/- 1mm) and
 +/- 0.08 in. (+/- 2mm) for height
 dimensions. All data subject to
 change without notice.

Constant Current Discharge Characteristics: Unit A (25°C, 77°F)

F.V. / Time	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	88.6	64.7	45.5	27.7	14.4	8.6	6.2	4.8	4.0	2.8	2.5	1.4
10.2V	78.0	58.8	40.7	26.1	13.5	8.0	6.0	4.7	3.9	2.7	2.5	1.3
10.5V	75.3	56.1	38.7	25.3	13.0	7.8	5.9	4.6	3.8	2.7	2.4	1.3
10.8V	72.2	53.0	35.9	24.6	12.7	7.6	5.7	4.5	3.7	2.6	2.4	1.3
11.1V	69.4	50.3	33.5	23.9	12.3	7.4	5.5	4.4	3.6	2.6	2.3	1.2

Constant Power Discharge Characteristics: Unit W (25°C, 77°F)

F.V. / Time	5 Min	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	968	707	497	301	171	100	73	57	47	33	30	16
10.2V	904	673	465	298	161	95	71	56	46	32	29	16
10.5V	878	654	447	312	156	93	70	55	46	32	29	16
10.8V	867	637	430	295	151	91	68	54	45	32	29	15
11.1V	851	616	411	293	150	91	68	54	45	31	28	15

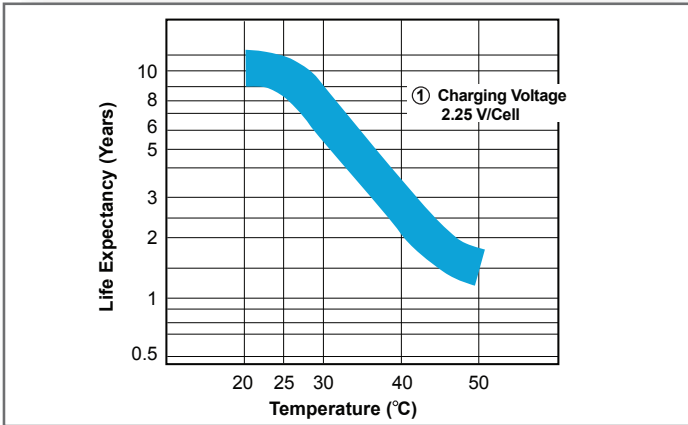
universal battery®

Nano-Silica Battery

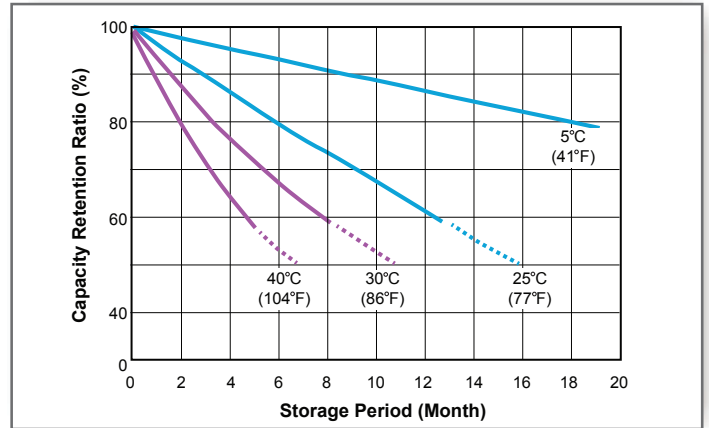
UB12260NB

Maintenance-Free

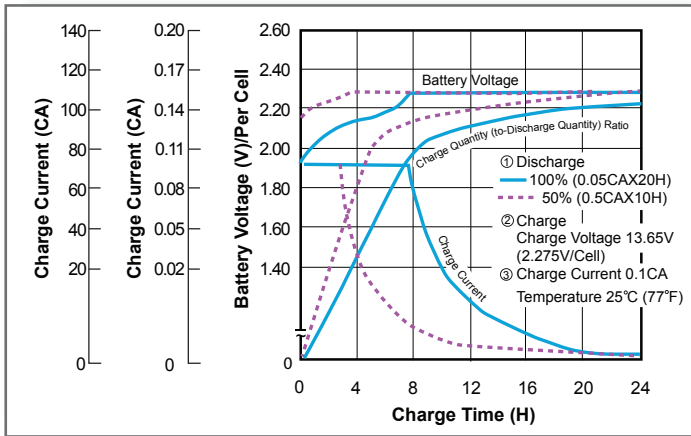
Trickle (or Float) Design Life



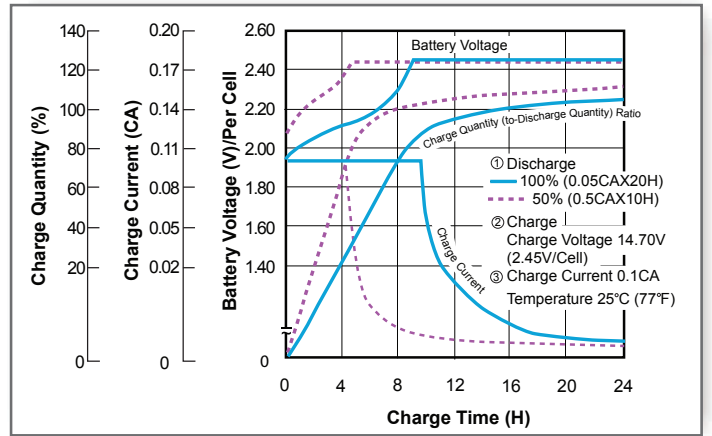
Capacity Retention Characteristic



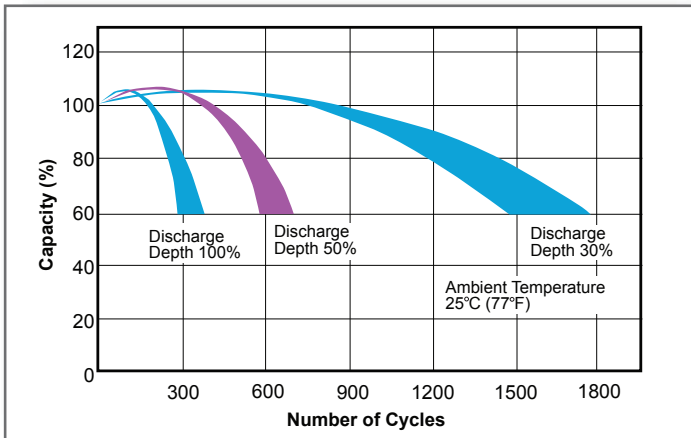
Battery Voltage and Charge Time - Standby Use



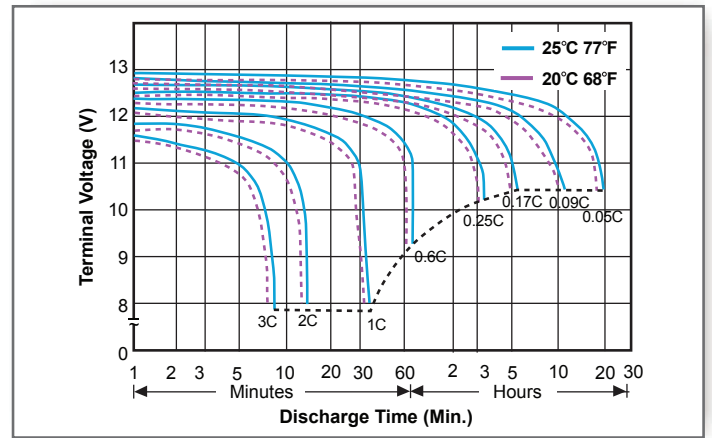
Battery Voltage & Charge Time - Cycle Use



Cycle Service Life



Terminal Voltage (V) & Discharge Time



Effect of Temperature on Capacity (20 Hr)

Temperature	Dependency of Capacity (20HR)
40°C	102%
25°C	100%
0°C	85%
-15°C	65%

Self-Discharge Characteristics 25°C (77°F)

Storage Time	Preservation Rate
3 Months	91%
6 Months	82%
12 Months	64%