

Specification

Nominal Voltage		12 volts	
Nominal Capacity		77° F (25° C)	
20-hr. (4.50A)		90.0 Ah	
10-hr. (8.37)		83.7 Ah	
5-hr. (15.30A)		76.5 Ah	
1-hr. (54.00A)		54 Ah	
Approximate Weight		55.12 lbs (25 kgs)	
Internal Resistance (approx.)		7mΩ	
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%
GEL Operational Temperature			
Charge	32 F to 113 F (0 C to 45 C)		
Discharge	5°F to 131°F (-15°C to 55°C)		
GEL Storage Temperature		5°F to 104°F (-15°C to 40°C)	
UPG Recommends		32°F to 86°F (0°C to 30°C) Storage	



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

Charge Method (Constant Voltage)

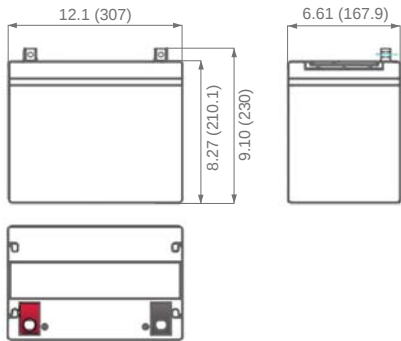
Cycle Use (Repeating Use)

Initial Current	18.0 A or smaller
Control Voltage	14.2 - 14.4 V

Float Use

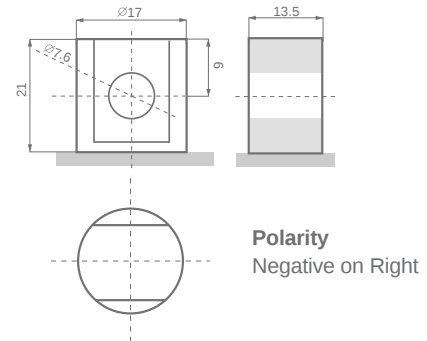
Control Voltage	13.2 - 13.4 V
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Physical Dimensions: in (mm)



L: 12.1 in (307 mm)
W: 6.61 in (167.9 mm)
H: 8.27 in (210.1 mm)
TH: 9.10 in (230 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm)
 and +/- 0.08 in. (+/- 2mm) for height
 dimensions. All data subject to
 change without notice.

Terminals

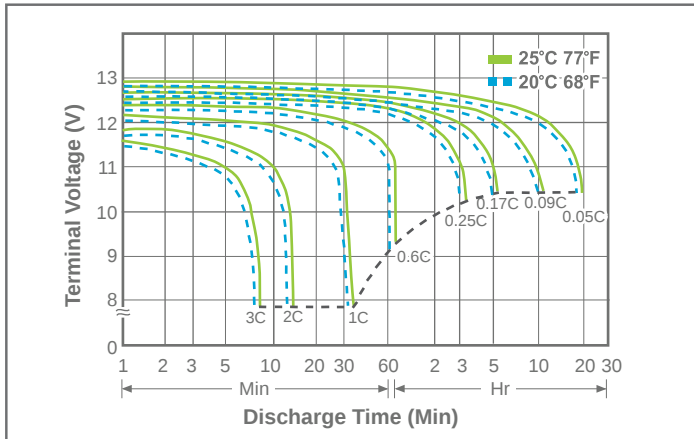
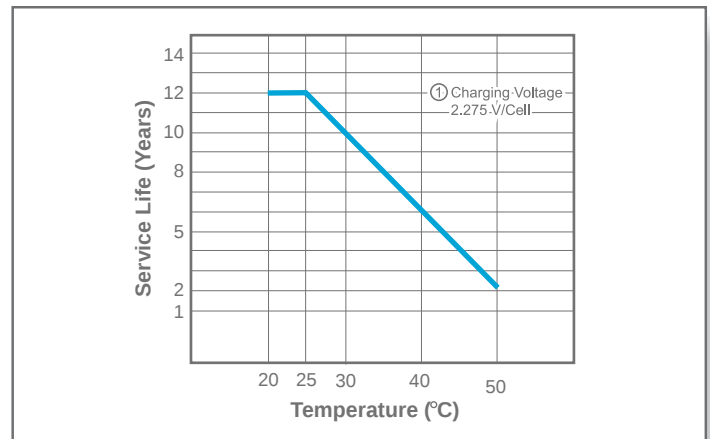
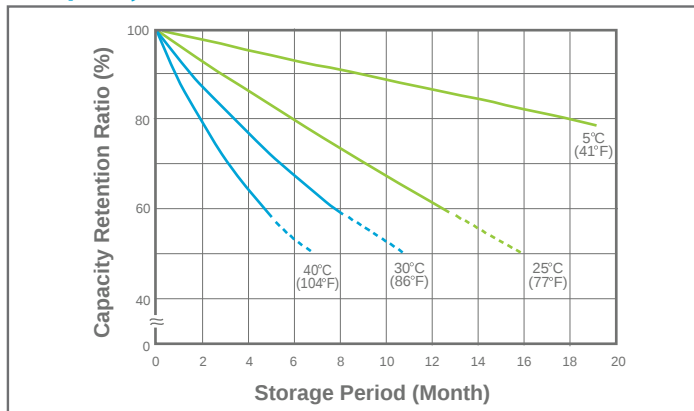
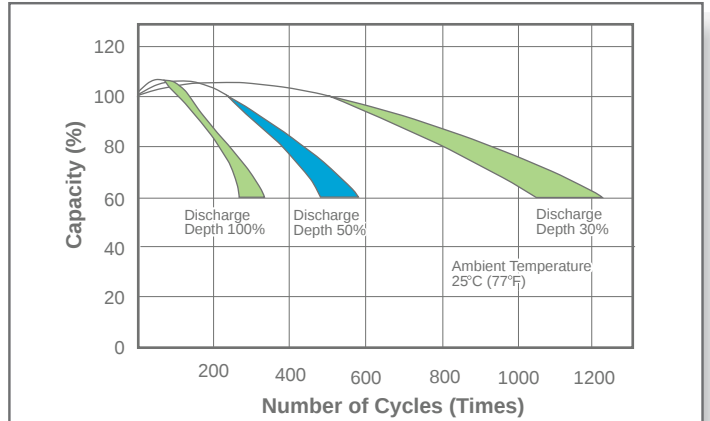
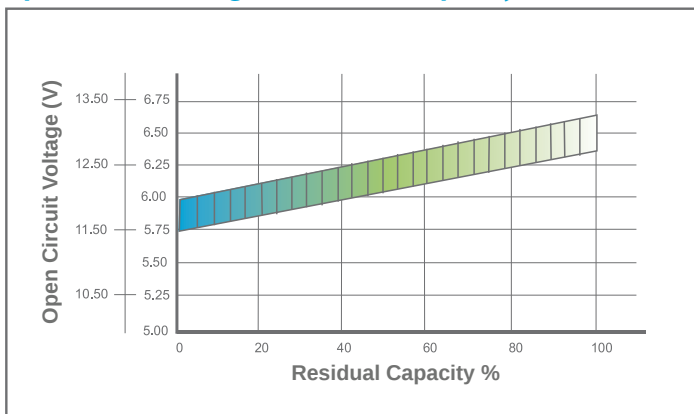
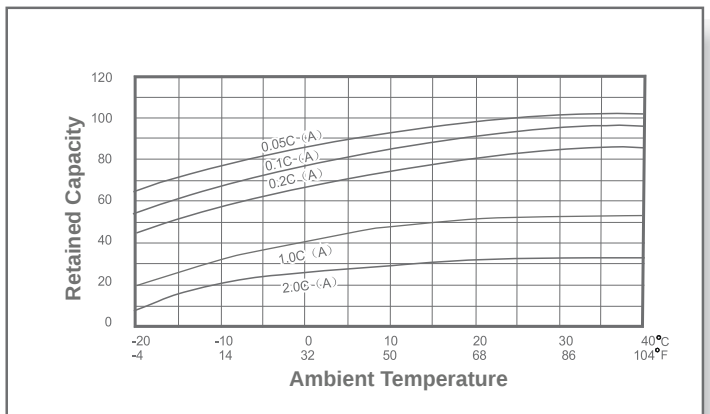


Constant Power Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2h	3h	5h	8h	10h	20h
9.60	255	210	165	100.5	55.6	33.4	25.2	16.1	10.41	8.68	4.56
9.90	247	204	162	98.5	54.5	33.2	25.0	16.1	10.36	8.64	4.53
10.2	242	200	159	96.4	53.4	32.9	24.8	15.9	10.32	8.60	4.52
10.5	228	194	154	93.4	51.7	32.6	24.5	15.7	10.29	8.58	4.50
10.8	209	188	151	91.6	50.7	32.3	24.3	15.6	10.26	8.55	4.49

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2h	3h	5h	8h	10h	20h
9.60	2752	2297	1834	1127	634	387	296	191	125.0	103.6	54.7
9.90	2669	2228	1777	1105	621	385	295	190	124.4	103.1	54.4
10.2	2614	2182	1741	1082	608	381	292	188	123.9	102.7	54.2
10.5	2463	2113	1687	1048	589	377	289	186	123.5	102.4	54.0
10.8	2256	2051	1654	1028	578	374	286	184	123.1	102.1	53.9

Terminal Voltage (V) and Discharge Time**Trickle (or float) Service Life****Capacity Retention Characteristic****Cycle Service Life****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)	2.40	2.36~2.40	0.20C	Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C
Standby	25°C(77°F)	2.23	2.20~2.23						