

CONSTANT[®] POWER AGM Batteries



AGMBF31S

CYCLING CAPACITY

20 Hour Rate

110 Amp Hours

RESERVE CAPACITY

Reserve @25 AMPS

230 Minutes

Reserve @75 AMPS

50 Minutes

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12 Volt
C100	121 AH
C20	110 AH
C5	91 AH
Short Circuit Current	5000 Amps
CCA	1100 Amps
CA or MCA	1360 Amps
PHCA	2200 Amps
Internal Resistance	2.3 mΩ

MECHANICAL SPECIFICATIONS

Group Size	31T	
Terminal Type	3/8" Stud	
Terminal Torque	See reverse side	
Height (w/ terminal)	9.13"	232 mm
Height (case only)	8.43"	214 mm
Width	6.81"	173 mm
Length	12.99"	330 mm
Weight	75.2 lbs	34.1 kg
Case Type	ABS Plastic - Flame Res. Rating UL94-HB	

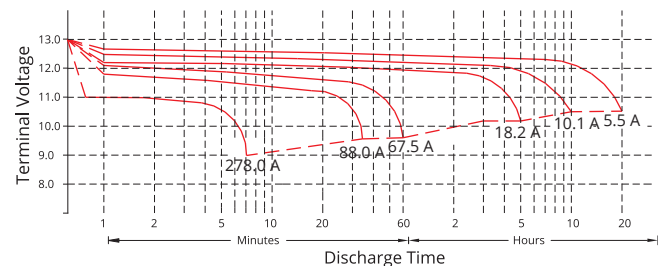
DISCHARGE TABLE (Constant Current)

Time	Amps	Rate
20hr	5.5	0.05 CA
10hr	10.1	0.10 CA
8hr	12.0	0.13 CA
5hr	18.2	0.20 CA
3hr	27.5	0.33 CA
2hr	38.1	0.50 CA
1hr	67.5	1.00 CA

DISCHARGE PROFILE (Constant Current)

12-Volt Battery

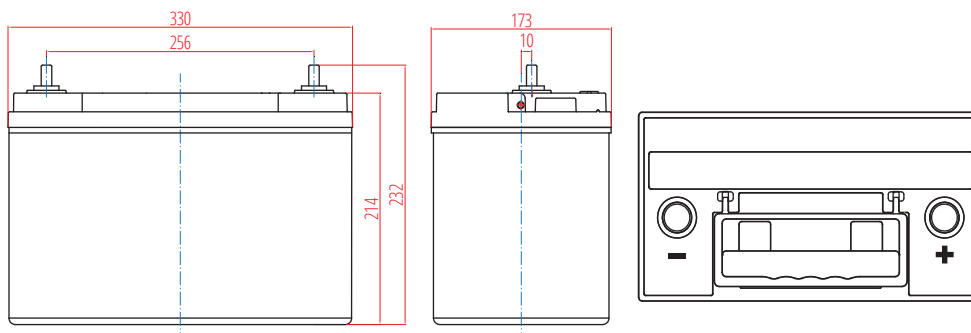
Temperature: 77°F (25°C)



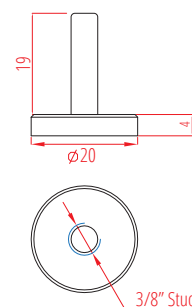
- All listed ratings are @ 100% SoC, T=77°F (25°C), 1.75VPC unless otherwise specified.

- Specifications listed are for estimation purposes only. Battery performance can vary depending on application. Battery design subject to change.

BATTERY & TERMINAL DIMENSIONS (All units shown in mm)



Terminal: 3/8" Stud

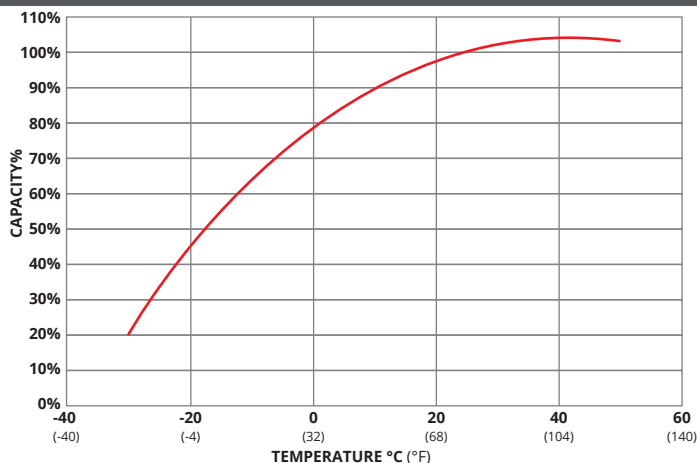


STRONG RESERVE CAPACITY

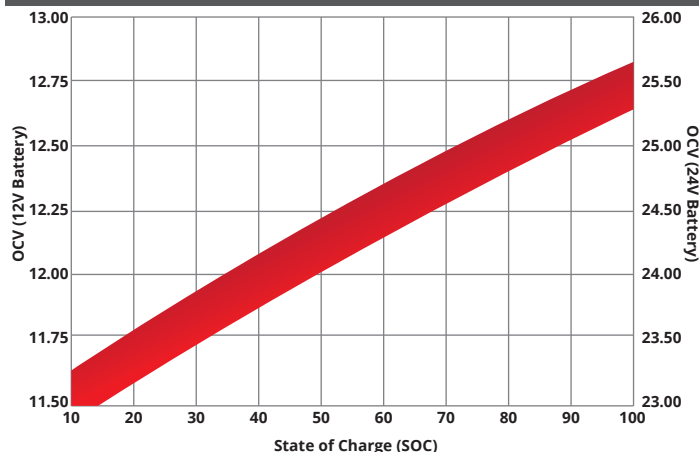
AGM TPPL BATTERY

12V HIGH CRANKING

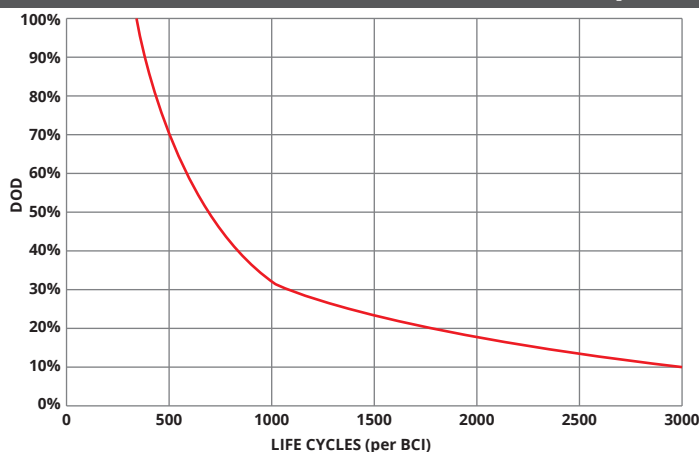
TEMPERATURE vs CAPACITY



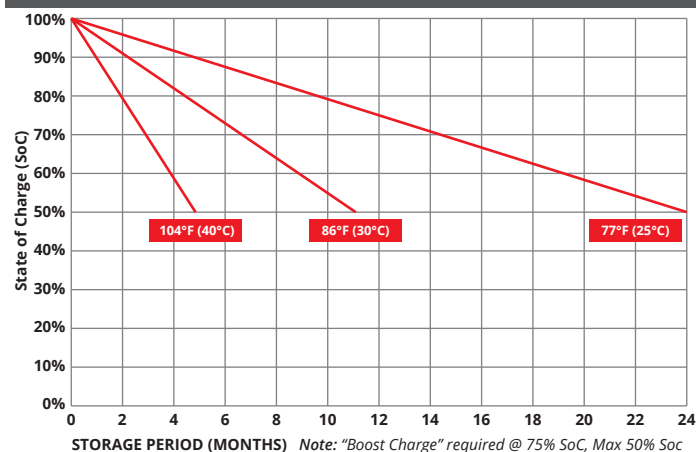
STATE of CHARGE (SOC) vs OPEN CIRCUIT VOLTAGE (OCV)



CYCLE LIFE vs DEPTH of DISCHARGE (DOD) *(Based on BCI Testing @ 2-hr Rate)



SELF DISCHARGE vs TIME/TEMPERATURE



TEMPERATURE RANGE SPECIFICATIONS

Condition	Recommended	Maximum	Recommended	Maximum
Storage	5°F to 122°F	-40°F to 160°F	-15°C to 50°C	-40°C to 71°C
Operation	5°F to 104°F	-40°F to 160°F	-15°C to 40°C	-40°C to 71°C
Charge with TC	5°F to 122°F	-40°F to 160°F	-15°C to 50°C	-40°C to 71°C
Charge w/o TC	32°F to 104°F	5°F to 122°F	0°C to 40°C	-15°C to 50°C

*TC= Temperature Compensation

CHARGE VOLTAGES

Charge Stage	Battery Voltages			
	12V	24V	36V	48V
Bulk	14.4 - 14.7V	28.8 - 29.4V	43.2 - 44.1V	57.6 - 58.8V
Absorption	14.4 - 14.7V	28.8 - 29.4V	43.2 - 44.1V	57.6 - 58.8V
Float	13.6V	27.2V	40.8V	54.6V

TC Factor: (-2mV°F/cell) or (-4mV°C/cell)

TERMINAL TORQUE SPECS (applicable values are highlighted)

M6	M8	M10	M6M (Stud)	M8M (Stud)	M10M (Stud) & 3/8" Stud	FR45	TP06 (AP)	TP08/TP68 (AP)	AP
3.3-4.8ft-lbs	5.2-6.7ft-lbs	8.1-10.3ft-lbs	2.6-3.7ft-lbs	4.4-5.9ft-lbs	7.4-8.8ft-lbs	4.8-6.3ft-lbs	2.6-3.3ft-lbs	4.6-6.3ft-lbs	4.2-5.8ft-lbs
40-57.5lbs-in	62-80lbs-in	97-124lbs-in	31-44lbs-in	53-71lbs-in	88.5-106lbs-in	57-75lbs-in	31-40lbs-in	55-75lbs-in	50-70lbs-in
4.5-6.5Nm	7-9Nm	11-14Nm	3.5-5Nm	6-8Nm	10-12Nm	6.5-8.5Nm	3.5-4.5Nm	6.2-8.5Nm	5.6-7.9Nm



9001:2008 Quality Management System
14001:2004 Environmental Management System
18001:2007 Occupational Health & Safety Management System



DELIVERY APPROVED!
**LAND, SEA
& AIR**

Constant Power are sealed lead acid batteries made with Absorbed Glass Mat (AGM) technology. The electrolyte is absorbed into the fiberglass separator material rather than in a free-flowing liquid form. Constant Power are non-spillable electric storage batteries. They are excepted from the requirements of DOT's hazardous materials regulations, since they adhere to the requirements of code 49 CFR Section 173.159(D) - (CLASSIFIED APPROVED: DOT, CFR, HMR49, IATA, ICAO67, IMDG27)