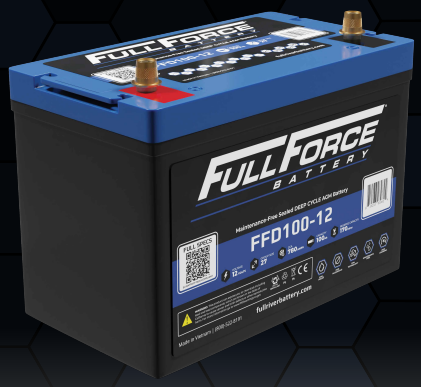
FULL FORCE BATTERY

FFD100-12



FULL FORCE SERIES | DEEP CYCLE AGM

CYCLING CAPACITY

20 Hour Rate	**100 Amp Hours**

RESERVE CAPACITY

Reserve @25 AMPS	**170 Minutes**	Reserve @75 AMPS	**41 Minutes**

ELECTRICAL SPECIFICATIONS

Nominal Voltage	**12 Volt**
C100	**110 AH**
C20	**100 AH**
C10	**94 AH**
C5	**79 AH**
CCA	**780 Amps**
CA or MCA	**650 Amps**
Internal Resistance	**5.0 mΩ**

MECHANICAL SPECIFICATIONS

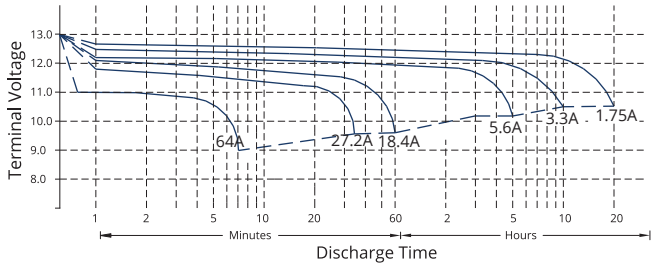
Group Size	**27**	
Terminal Type	**M8+TP**	
Terminal Torque	**5.8 - 6.7** ft/lbs **62 - 80** lbs/in **7 - 9** Nm	
Height (w/ terminal)	**9.33"**	**237 mm**
Height (case only)	**8.31"**	**211 mm**
Width	**6.61"**	**168 mm**
Length	**12.13"**	**308 mm**
Weight	**61.3 lbs**	**27.8 kg**
Case Type	**ABS Plastic** Flame Res. Rating UL94-HB	

DISCHARGE TABLE (Constant Current)

Time	Amps	Rate
20hr	5	0.05 CA
10hr	9.5	0.10 CA
8hr	11.4	0.13 CA
5hr	17.2	0.20 CA
3hr	23.7	0.33 CA
2hr	31.6	0.50 CA
1hr	59.6	1.00 CA

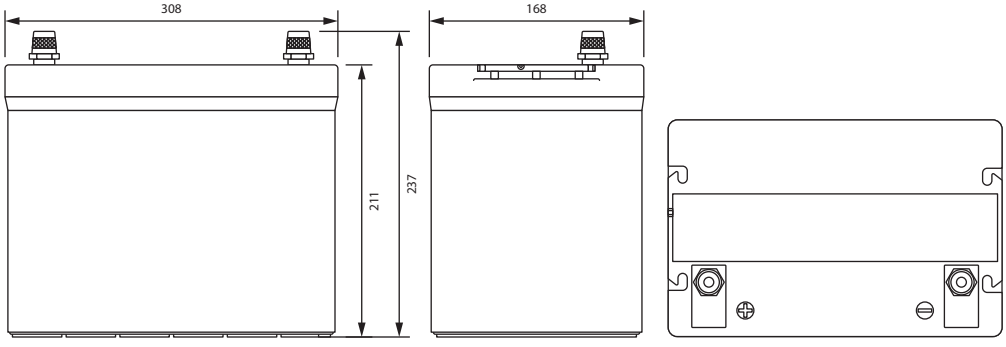
DISCHARGE PROFILE (Constant Current)

12-Volt Battery *Temperature: 77°F (25°C)*

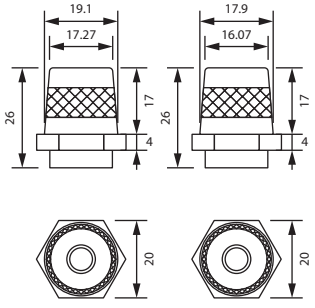


- All listed ratings are @ 100% SoC, T=77°F (25°C), 1.75VPC unless otherwise specified.
- Specifications listed are for estimation purposes only. Battery performance can vary depending on application. Battery design subject to change.

BATTERY & TERMINAL DIMENSIONS (All units shown in mm)

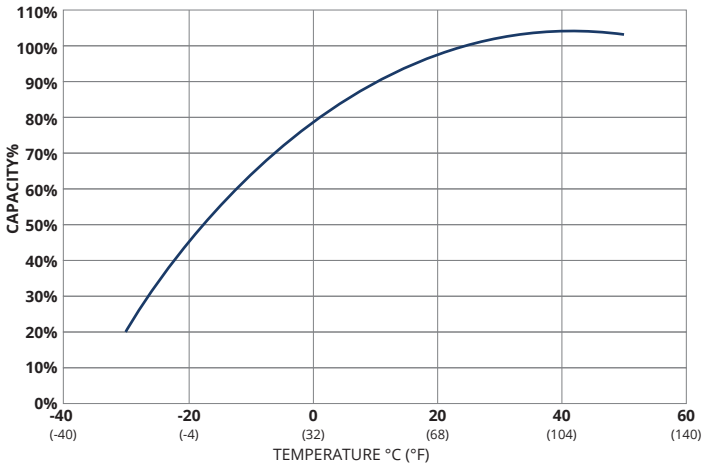


Terminal: M8+TP

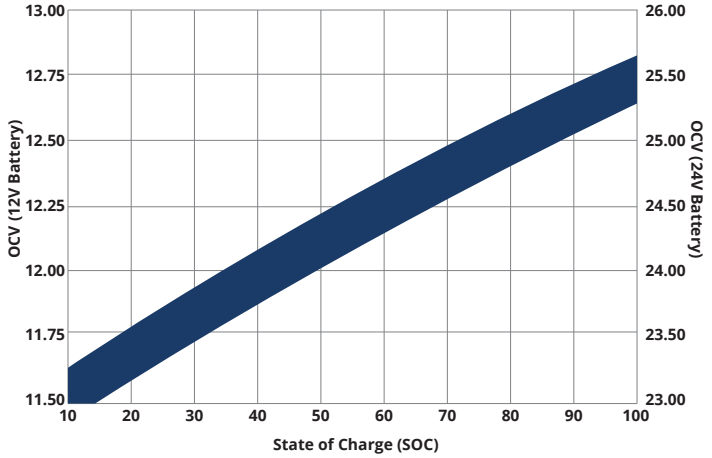


fullriverbattery.com

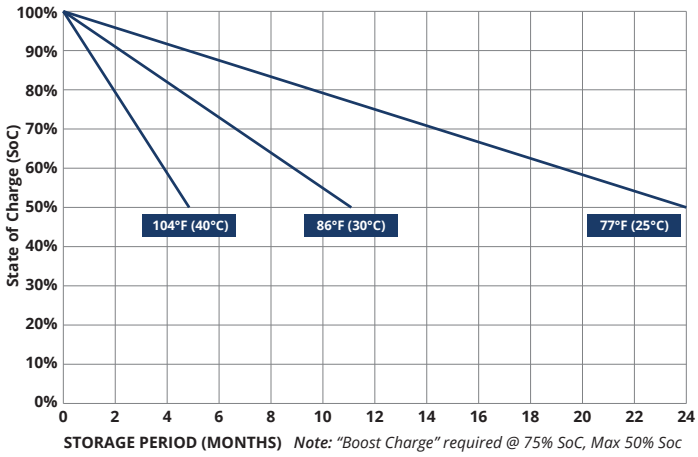
TEMPERATURE vs CAPACITY



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

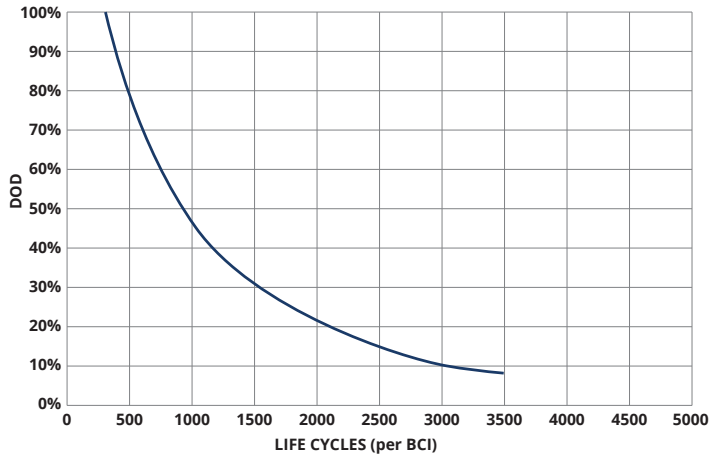


SELF DISCHARGE vs TIME/TEMPERATURE



***Note:** "Boost Charge" required @ 75% SoC, Max 50% Soc*

CYCLE LIFE vs DEPTH of DISCHARGE (DOD)



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

	Battery Voltages			
Charge Stage	**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

M5TAS	M6	M8	M10	M6M (Stud)	M8M (Stud)	M10M (Stud) & 3/8" Stud	FR45	TP06 (AP)	TP08/TP68 (AP)	AP
1.67-2.5ft-lbs	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
20-30lbs-in	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
2.26-3.39Nm	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

ISO CERTIFIED

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

TPPL TECHNOLOGY

DELIVERY APPROVED!
LAND, SEA & AIR

Fullriver batteries 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. Fullriver batteries 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)**