

- **TRULY DEEP CYCLE – MAINTENANCE FREE SEALED AGM BATTERY**

- **BCI: 24**
- **Reserve Capacity [AH @25 amps]: 145**
- **Reserve Capacity [AH @75 amps]: 34**
- **Energy [kWh] (@20 hr rate) : 1.02**
- **Weight: 55.3 lbs**
- **Length: 10.24 in (260 mm)**
- **Width: 6.65 in (169 mm)**
- **Height: 9.29 in (236 mm)**
- **M8 with TP08 Brass AP**



The Fullriver Battery DC85-12 AGM is designed to be deeply discharged and recharged hundreds of times.

Its exceptional design and build shows these benefits and features:

- Sealed, spill-proof, maintenance free construction making it environmentally friendly, non hazardous and ICAO, DOT, IATA, IMDG approved for any kind of transportation
- Compression of highly micro porous, glass mat separators offering a superior contact between the electrolyte and the plate for maximizing capacity
- Extreme Shock and vibration resistance
- ABS fire retardant case



DATA SHEET

MODEL **DC85-12**
 VOLTAGE **12V**
 CAPACITY **85 AH (@ 20hr)**
 MATERIAL **Polypropylene**
 BATTERY TYPE **Deep Cycle AGM**

ELECTRICAL SPECIFICATIONS

Nominal Voltage	C100	C20	C10	C5	CCA	CA or MCA	HPCA	Internal Resistance
12 Volt	95AH	85AH	77AH	70AH	510	600	1000	5.3 mΩ

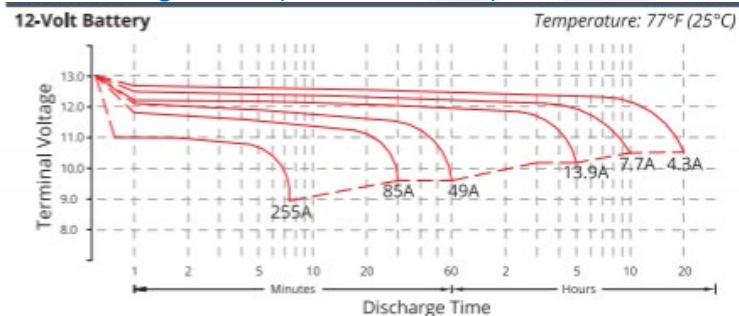
MECHANICAL SPECIFICATIONS

Group Size	Terminal Type	Height (w/ terminal)	Height (case only)	Width	Length	Weight	Case Type
24	M8 w/TP08 Brass AP	9.29"/236mm	8.31"/211mm	6.65"/169mm	10.24"/260mm	55.3 lbs	ABS Plastic

DISCHARGE TABLE (CONSTANT CURRENT)

Time	20 hr	10 hr	8 hr	5 hr	3 hr	2 hr	1 hr
Amps	4.3	7.7	9.2	13.9	19.2	25.6	48.3
Rate	0.05CA	0.10CA	0.13CA	0.25CA	0.33CA	0.50CA	1.00CA

Discharge Profile (Constant Current)



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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 w/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	14.7V	29.4V	44.1V	58.8V
Absorption	14.7V	29.4V	44.1V	58.8V
Float	13.6V	27.2V	40.8V	54.6V

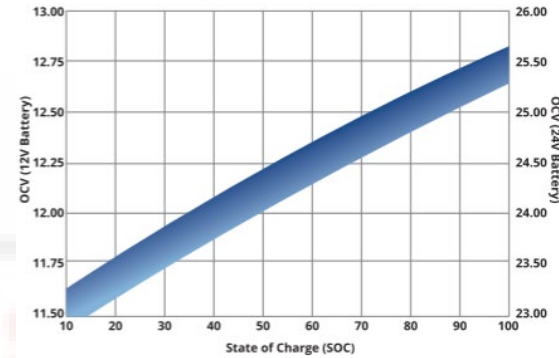
TC Factor: (-2mV°F/cell) or (-4mV°C/cell)

TERMINAL TORQUE SPECS

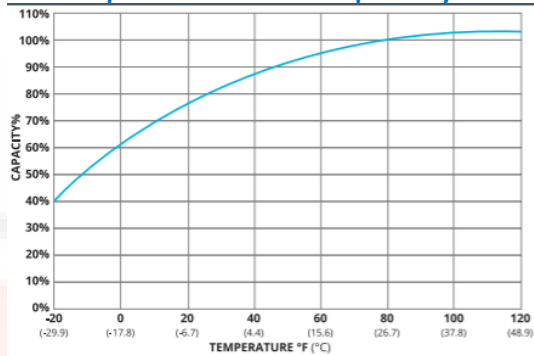
Terminal Type	AP, DT (AP), M6, M6M (Stud), TPO7 (AP), TPO8 (AP)	FR45	M8	DT(Stud), M10M (Stud)
Ft-lbs	4.2-6.0	6.0-7.5	7.1-8.0	9.2-10.4
In-lbs	50-70	70-90	85-95	110-125
Nm	5.6-7.9	7.9-10.1	9.6-10.7	12.2-14



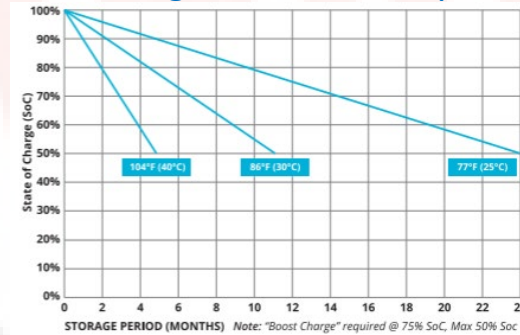
State of Charge (SOC) vs Open Circuit Voltage (OCV)



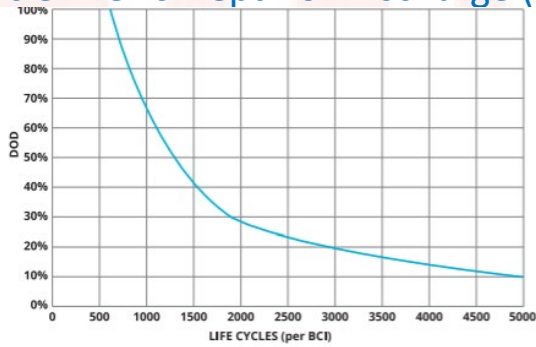
Temperature vs Capacity



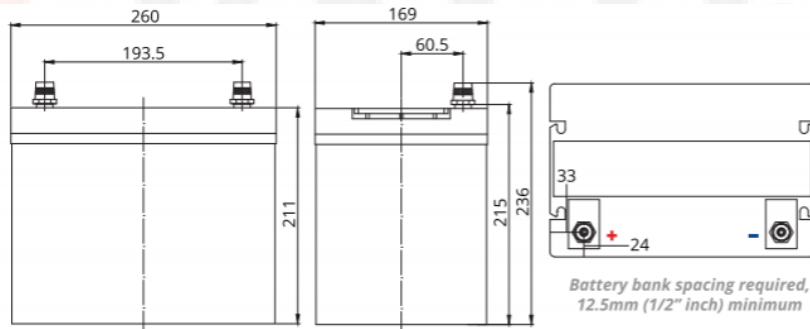
Self Discharge vs Time/Temperature



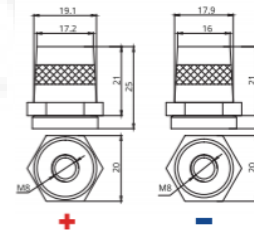
Cycle Life vs Depth of Discharge (DOD)



Battery & Terminal Dimensions (in mm)



Terminal: M8 with TP08 Brass AP



(Unit: mm)