

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

- **BCI:** U1
- **Reserve Capacity [AH @25 amps]:** 52
- **Reserve Capacity [AH @75 amps]:** -
- **Energy [kWh] (@20 hr rate) :** 0.42
- **Weight:** 25.35 lbs
- **Length:** 7.72 in (196 mm)
- **Width:** 5.16 in (131 mm)
- **Height:** 6.57 in (167 mm)
- **M6**



**The Fullriver Battery DC35-12 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 **DC35-12**  
 VOLTAGE **12V**  
 CAPACITY **35 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	39AH	35AH	32AH	29AH	190	230	450	9.0 mΩ

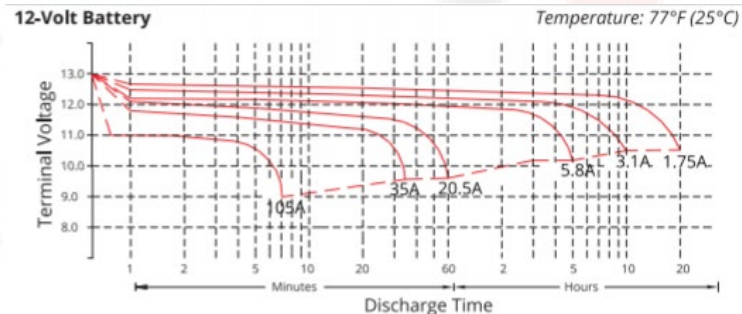
## MECHANICAL SPECIFICATIONS

Group Size	Terminal Type	Height (w/ terminal)	Height (case only)	Width	Length	Weight	Case Type
U1	M6	6.57"/167mm	6.1"/155mm	5.16"/131mm	7.72"/196mm	25.35 lbs	ABS Plastic

## DISCHARGE TABLE (CONSTANT CURRENT)

Time	20 hr	10 hr	8 hr	5 hr	3 hr	2 hr	1 hr
Amps	1.75	3.2	3.4	5.8	7.9	10.7	20.6
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

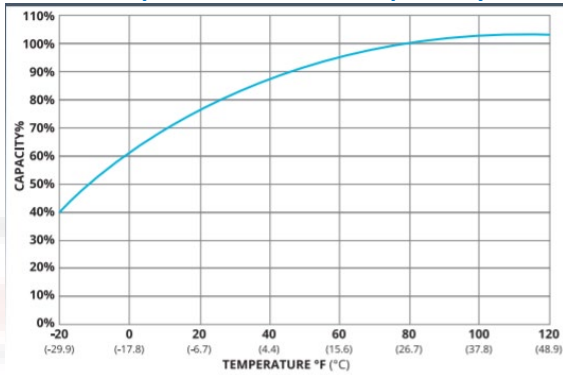
TC Factor: (-2mV°F/cell) or (-4mV°C/cell)

## TERMINAL TORQUE SPECS

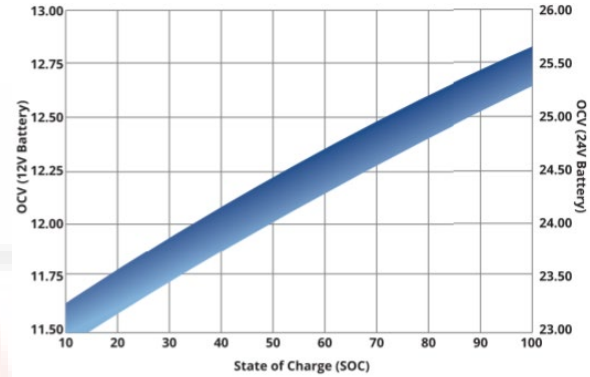
Terminal Type	AP, DT (AP), M6, M6M (Stud), TPO7 (AP), TPO8 (AP)	FR45	M8	DT(Stud), M10M (Stud)
Ft-lbs	4.2-6.0	6.0-7.5	7.1-8.0	9.2-10.4
In-lbs	50-70	70-90	85-95	110-125
Nm	5.6-7.9	7.9-10.1	9.6-10.7	12.2-14



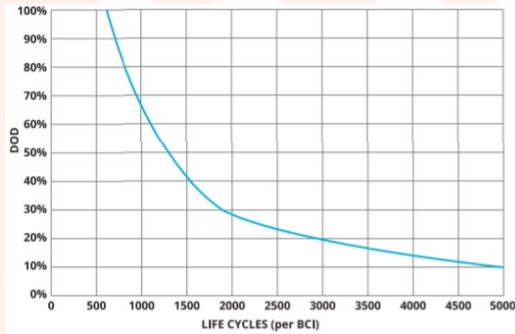
## Temperature vs Capacity



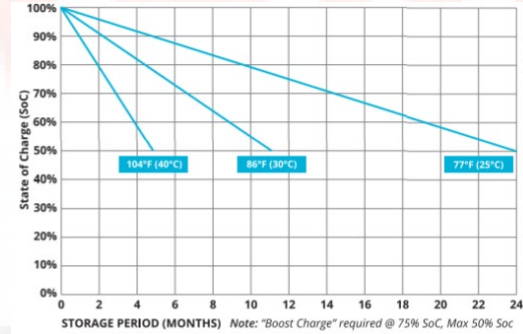
## State of Charge (SOC) vs Open Circuit Voltage (OCV)



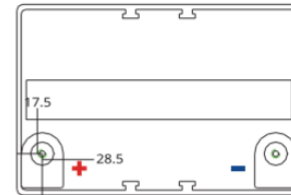
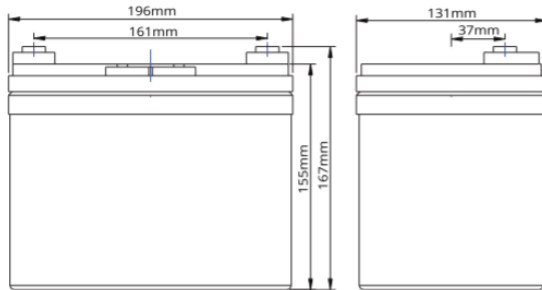
## Cycle Life vs Depth of Discharge (DOD)



## Self Discharge vs Time/Temperature

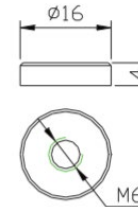


## Battery & Terminal Dimensions (in mm)



Battery bank spacing required, 12.5mm (1/2" inch) minimum

Terminal: M6



(Unit: mm)

