

# DC55-12

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

- **BCI:** 22NF
- **Reserve Capacity [AH @25 amps]:** 96
- **Reserve Capacity [AH @75 amps]:** 21
- **Energy [kWh] (@20 hr rate) :** 0.66
- **Weight:** 38.8 lbs
- **Length:** 9.02 in (229 mm)
- **Width:** 5.43 in (138 mm)
- **Height:** 8.35 in (212 mm)
- **M6**



**The Fullriver Battery DC55-12 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 **DC55-12**  
 VOLTAGE **12V**  
 CAPACITY **55 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	61 AH	55AH	50AH	45AH	400	480	825	8.0 mΩ

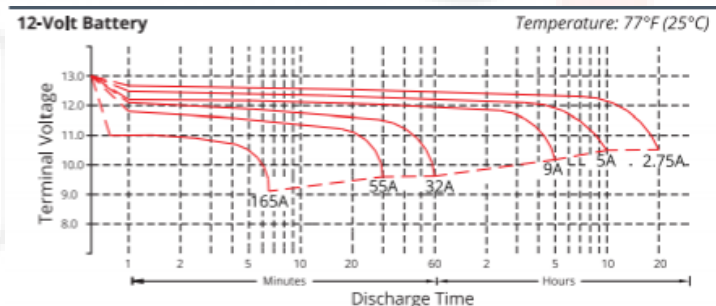
## MECHANICAL SPECIFICATIONS

Group Size	Terminal Type	Height (w/ terminal)	Height (case only)	Width	Length	Weight	Case Type
22NF	M6	8.35"/212mm	8.19"/208mm	5.43"/138mm	9.02"/229mm	38.8 lbs	ABS Plastic

## DISCHARGE TABLE (CONSTANT CURRENT)

Time	20 hr	10 hr	8 hr	5 hr	3 hr	2 hr	1 hr
Amps	2.75	5.0	6.0	8.7	12.5	16.6	31.3
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	<b>5°F to 122°F</b>	<b>-40°F to 160°F</b>	<b>-15°C to 50°C</b>	<b>-40°C to 71°C</b>
Operation	<b>5°F to 104°F</b>	<b>-40°F to 160°F</b>	<b>-15°C to 40°C</b>	<b>-40°C to 71°C</b>
Charge w/TC	<b>5°F to 122°F</b>	<b>-40°F to 160°F</b>	<b>-15°C to 50°C</b>	<b>-40°C to 71°C</b>
Charge w/o TC	<b>32°F to 104°F</b>	<b>5°F to 122°F</b>	<b>0°C to 40°C</b>	<b>-15°C to 50°C</b>

\*TC=Temperature Compensation

## CHARGE VOLTAGES

	Battery Voltages			
Charge Stage	<b>12V</b>	<b>24V</b>	<b>36V</b>	<b>48V</b>
Bulk	<b>14.7V</b>	<b>29.4V</b>	<b>44.1V</b>	<b>58.8V</b>
Absorption	<b>14.7V</b>	<b>29.4V</b>	<b>44.1V</b>	<b>58.8V</b>
Float	<b>13.6V</b>	<b>27.2V</b>	<b>40.8V</b>	<b>54.6V</b>

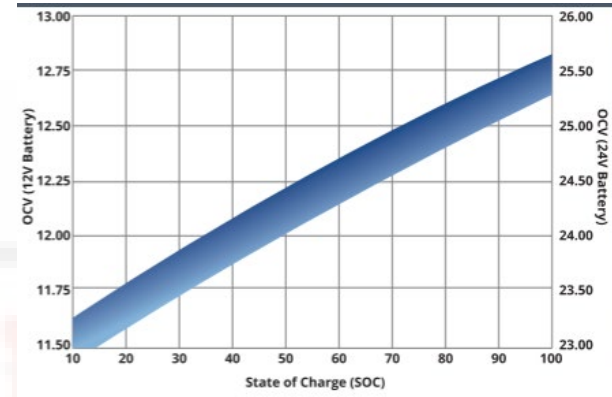
TC Factor: (-2mV°F/cell) or (-4mV°C/cell)

## TERMINAL TORQUE SPECS

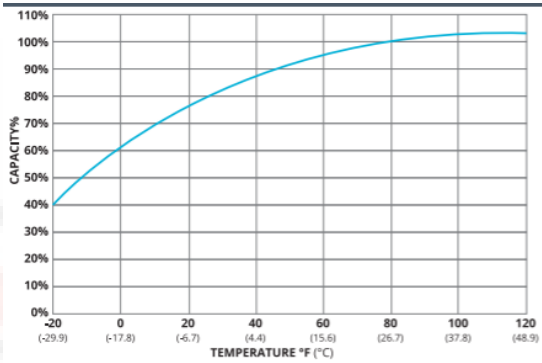
Terminal Type	AP, DT (AP), M6, M6M (Stud), TPO7 (AP), TPO8 (AP)	FR45	M8	DT(Stud), M10M (Stud)
Ft-lbs	<b>4.2-6.0</b>	<b>6.0-7.5</b>	<b>7.1-8.0</b>	<b>9.2-10.4</b>
In-lbs	<b>50-70</b>	<b>70-90</b>	<b>85-95</b>	<b>110-125</b>
Nm	<b>5.6-7.9</b>	<b>7.9-10.1</b>	<b>9.6-10.7</b>	<b>12.2-14</b>



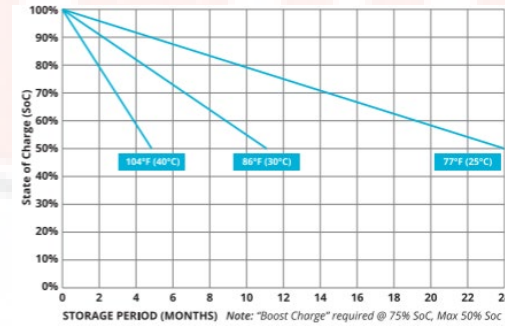
## State of Charge (SOC) vs Open Circuit Voltage (OCV)



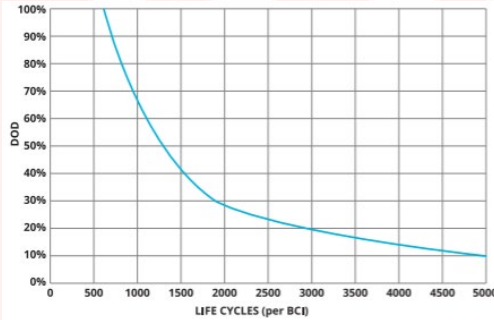
## Temperature vs Capacity



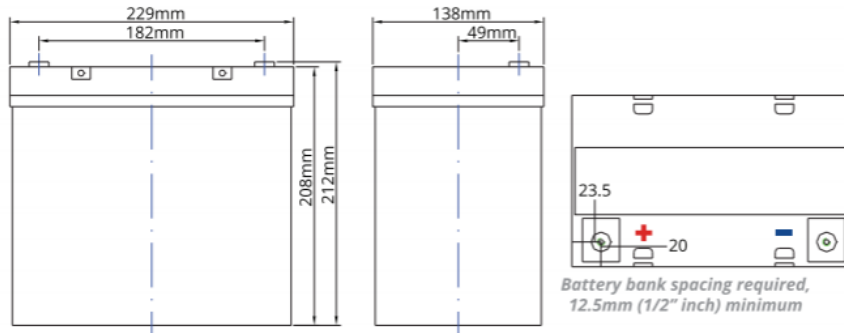
## Self Discharge vs Time/Temperature



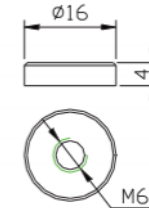
## Cycle Life vs Depth of Discharge (DOD)



## Battery & Terminal Dimensions (in mm)



Terminal: M6



(Unit: mm)