



# DCG40-12



## CYCLING CAPACITY

20 Hour Rate      **40 Amp Hours**

## RESERVE CAPACITY

Reserve @25 AMPS      **51 Minutes**      Reserve @75 AMPS      **11 Minutes**

## ELECTRICAL SPECIFICATIONS

Nominal Voltage	<b>12 Volt</b>
C100	<b>46 AH</b>
C20	<b>40 AH</b>
C10	<b>36 AH</b>
C5	<b>33 AH</b>
CCA	<b>235 Amps</b>
CA or MCA	<b>300 Amps</b>
PHCA	-
Internal Resistance	<b>11.0mΩ</b>

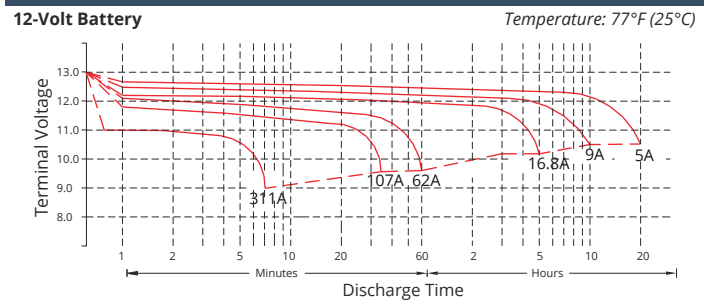
## MECHANICAL SPECIFICATIONS

Group Size	<b>U1L</b>	
Terminal Type	<b>M6</b>	
Terminal Torque	<b>See reverse side</b>	
Height (w/ terminal)	<b>6.73"</b>	<b>171mm</b>
Height (case only)	<b>6.73"</b>	<b>171mm</b>
Width	<b>6.54"</b>	<b>166mm</b>
Length	<b>7.80"</b>	<b>198mm</b>
Weight	<b>29.76 lbs.</b>	<b>13.5 kg</b>
Case Type	<b>ABS Plastic - Flame Res. Rating UL94-HB</b>	

## DISCHARGE TABLE (Constant Current)

Time	Amps	Rate
20hr	2.0	0.05CA
10hr	3.7	0.10CA
8hr	4.4	0.13CA
5hr	6.7	0.25CA
3hr	9.8	0.33CA
2hr	13.4	0.50CA
1hr	23.4	1.00CA

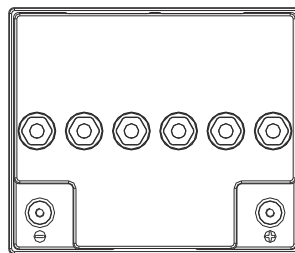
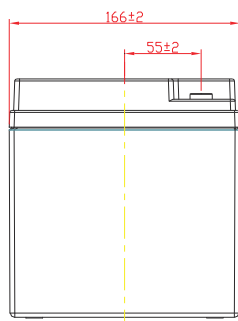
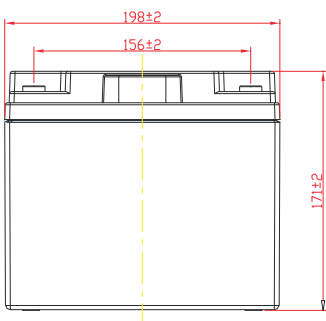
## DISCHARGE PROFILE (Constant Current)



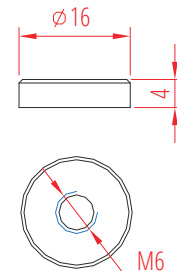
- All listed ratings are @ 100% SoC, T=77°F (25°C), 1.75VPC unless otherwise specified.

- 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)



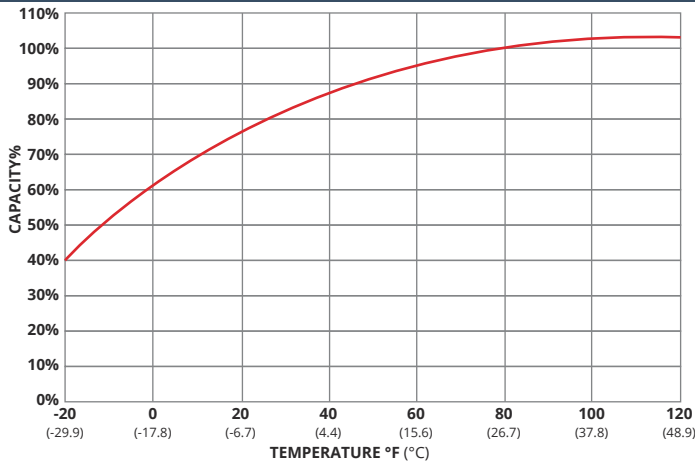
### Terminal: M6



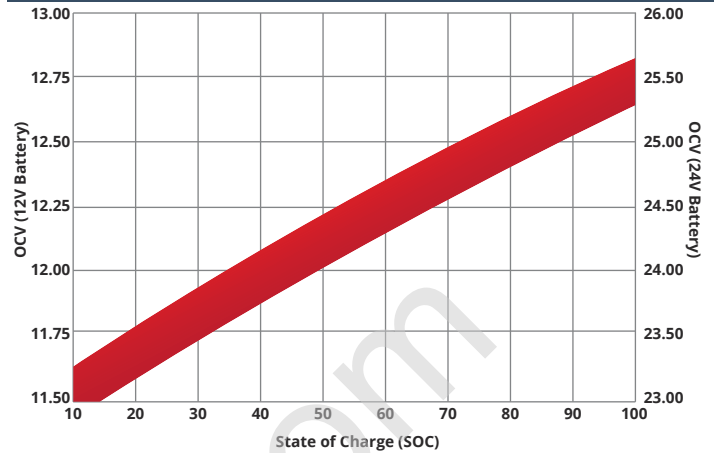
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## TEMPERATURE vs CAPACITY

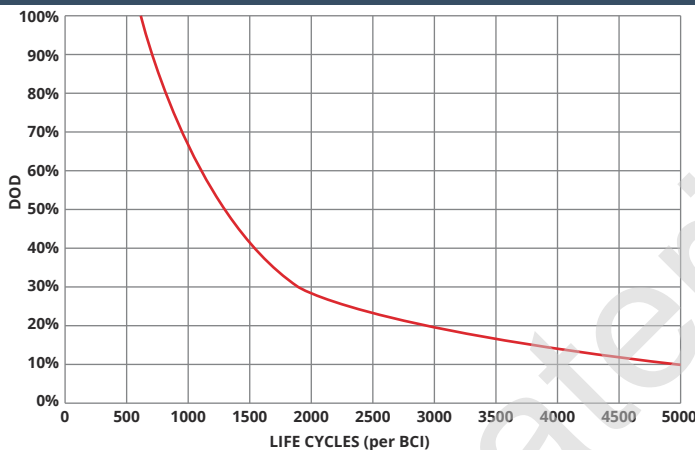


## STATE of CHARGE (SOC) vs OPEN CIRCUIT VOLTAGE (OCV)

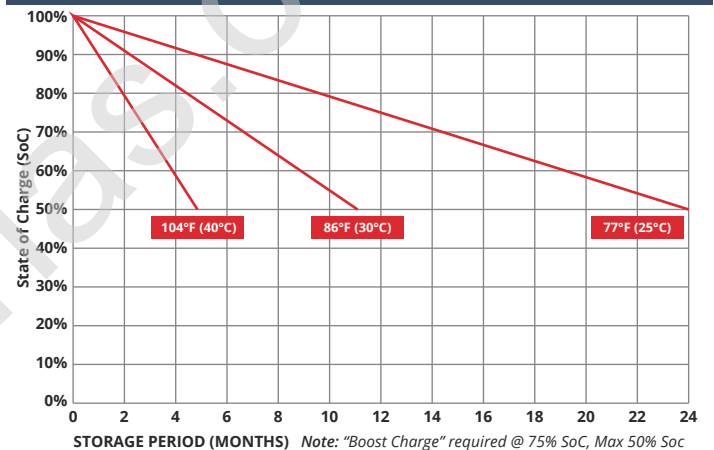


## CYCLE LIFE vs DEPTH of DISCHARGE (DOD)

\*(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	14.7V	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 (applicable values are highlighted)

M6, AP	M8	M10	M6M (Stud)	M8M (Stud)	M10M (Stud)	3/8" Stud	FR45	TP06 (AP)	TP08/TP68 (AP)
4.1-5.8ft-lbs	7.1-7.9ft-lbs	9.6-12ft-lbs	3.3-4.6ft-lbs	4.9-6.3ft-lbs	7.7-9.6ft-lbs	8.9-12ft-lbs	5.8-7.4ft-lbs	3.3-4.6ft-lbs	50-70ft-lbs
50-70lbs-in	85-95lbs-in	115-141lbs-in	40-56lbs-in	58-75lbs-in	92-115lbs-in	106-150lbs-in	70-90lbs-in	40-56lbs-in	63-83lbs-in
5.6-7.9Nm	9.6-10.7Nm	13-16Nm	4.5-6.3Nm	6.6-8.5Nm	10.4-13Nm	12-16.9Nm	7.9-10.1Nm	4.5-6.3Nm	7.1-9.4Nm



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



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 & 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)