



www.a1batterypro.com.au



DC180-8

GROUP GC8

CYCLING CAPACITY

20 Hour Rate **180 Amp Hours**

RESERVE CAPACITY

Reserve @25 AMPS **335 Minutes** Reserve @56 AMPS **125 Minutes**

ELECTRICAL SPECIFICATIONS

Nominal Voltage	8 Volt
C100	198AH
C20	180AH
C10	165AH
C5	148AH
CCA	1000
CA or MCA	1220
HPCA	2000 Amps
Internal Resistance	2.0m Ω

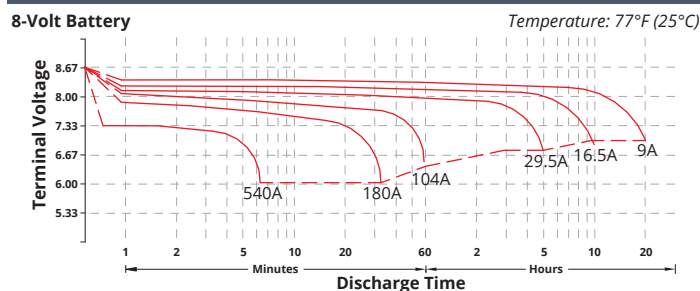
MECHANICAL SPECIFICATIONS

Group Size	GC8	
Terminal Type	M8	
Terminal Torque	See reverse side	
Height (w/ terminal)	10.71"	272mm
Height (case only)	10.55"	268mm
Width	7.16"	182mm
Length	10.24"	260mm
Weight	75.4 lbs.	34.2 kg
Case Type	ABS Plastic - Flame Res. Rating UL94-HB	

DISCHARGE TABLE (Constant Current)

Time	Amps	Rate
20hr	9.0	0.05CA
10hr	16.5	0.10CA
8hr	20.0	0.13CA
5hr	29.5	0.20CA
3hr	45.5	0.33CA
2hr	63.2	0.50CA
1hr	102	1.00CA

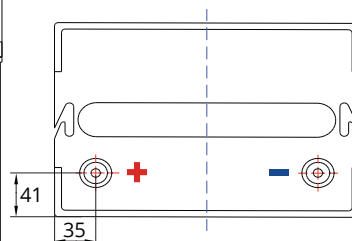
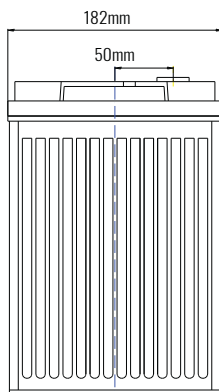
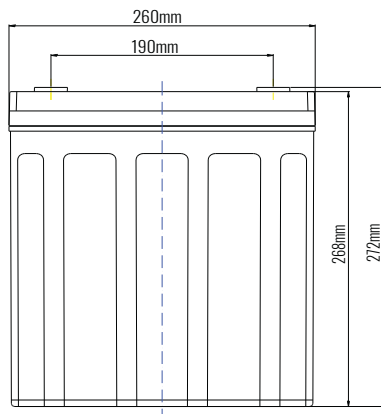
DISCHARGE PROFILE (Constant Current)



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

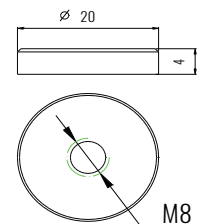
- Specifications listed are for estimation purposes only. Battery performance can vary depending on application. Battery design subject to change.

BATTERY & TERMINAL DIMENSIONS (All units shown in mm)



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

Terminal: M8



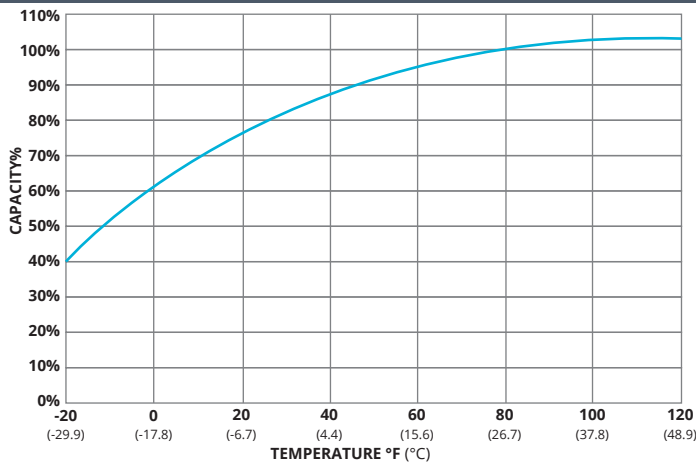
(unit: mm)

Two Great Stores to choose from...

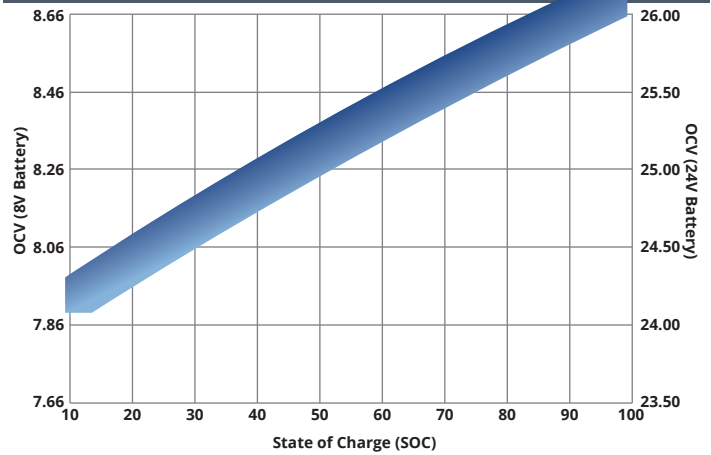
7 Cemetery Rd,
Mackay QLD 4740
Phone 07 4957 6123

Unit 16, 547 Woolcock St,
Mt Louisa, Townsville QLD 4814
Phone 07 4774 7344

TEMPERATURE vs CAPACITY

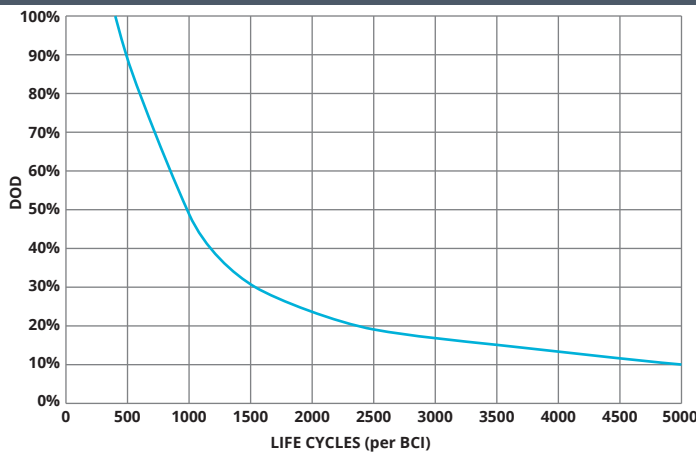


STATE of CHARGE (SOC) vs OPEN CIRCUIT VOLTAGE (OCV)

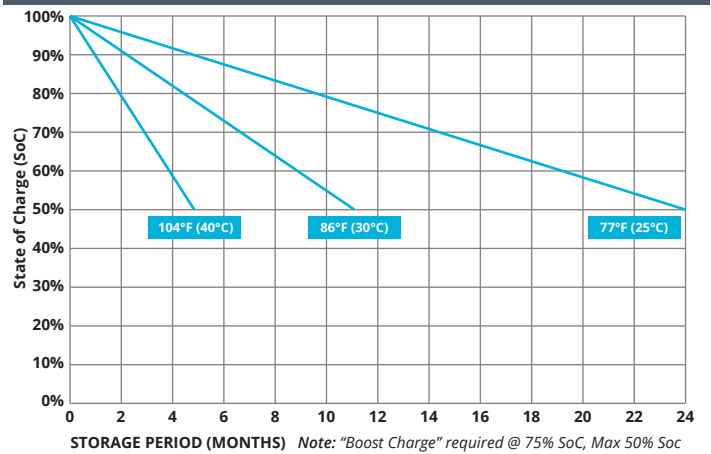


CYCLE LIFE vs DEPTH of DISCHARGE (DOD)

*(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

	Battery Voltages			
Charge Stage	8V	24V	32V	48V
Bulk	9.8V	29.4V	39.2V	58.8V
Absorption	9.8V	29.4V	39.2V	58.8V
Float	9.1V	27.3V	36.4V	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

Two Great Stores to choose from...

7 Cemetery Rd,
Mackay QLD 4740

Phone 07 4957 6123

Unit 16, 547 Woolcock St,
Mt Louisa, Townsville QLD 4814

Phone 07 4774 7344