

<b>MODEL:</b>	6V-AGM
<b>VOLTAGE:</b>	6
<b>DIMENSIONS:</b>	Inches (mm)
<b>BATTERY:</b>	VRLA AGM
<b>COLOR:</b>	Black (case/cover)
<b>MATERIAL:</b>	ABS
<b>WATERING SYSTEM:</b>	N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh) 100-Hr Rate	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>6 VOLT DUAL PURPOSE AGM BATTERY</b>														
GC2	6V-AGM	385	1100	1400	154	184	200	221	1.33	6	10.28 (261)	7.08 (180)	10.74 (273)	65 (29)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) for AGM Lines and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.
  - D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
  - E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
  - F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
  - G. Terminal images are representative only.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

### CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)

System Voltage	12V	24V	36V	48V
Daily Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.


## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

## OPERATIONAL DATA

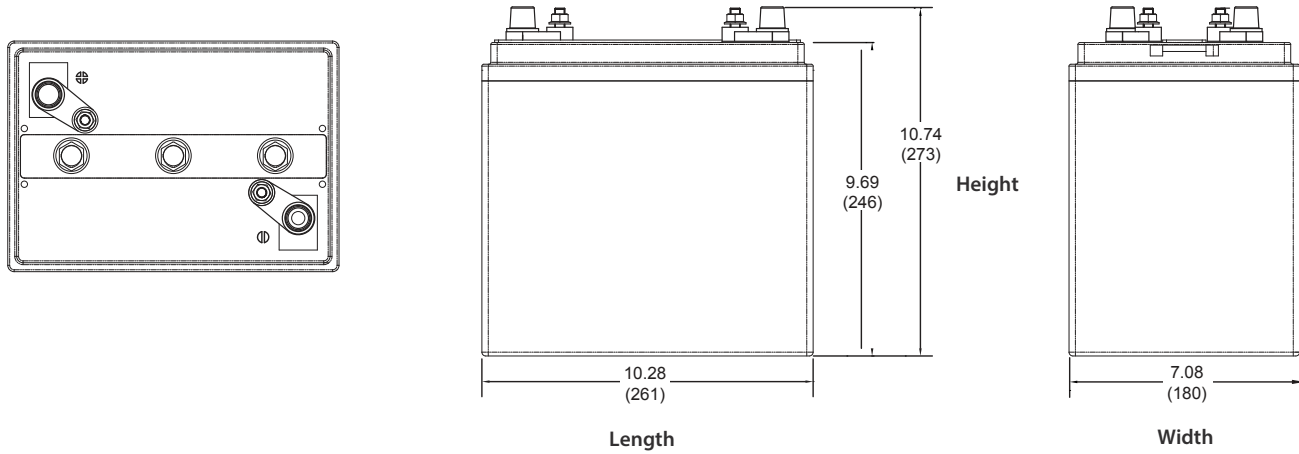
Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

## TERMINAL CONFIGURATIONS

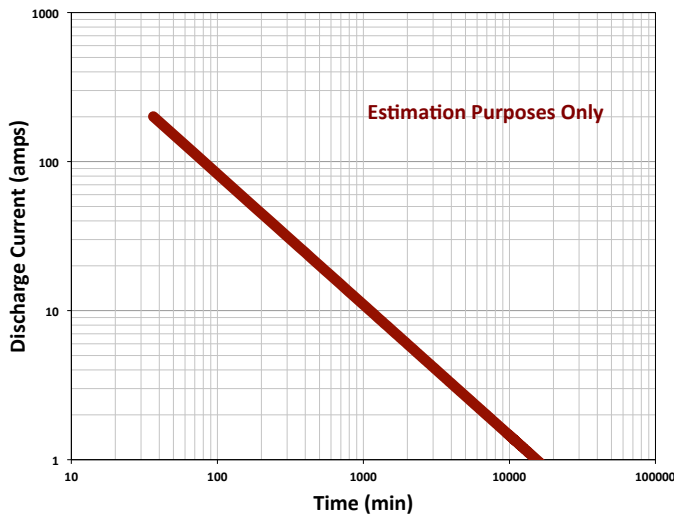
6	DT	Automotive Post & Stud Terminal
		
<i>Terminal Height Inches (mm)</i> .79 (20)		
<i>Torque Values in-lb (Nm)</i> Bolt: 95 – 105 (11 – 12) AP: 50 – 70 (6 – 8) <i>Bolt Size</i> 5/16 – 18		

# 6-AGM DATA SHEET

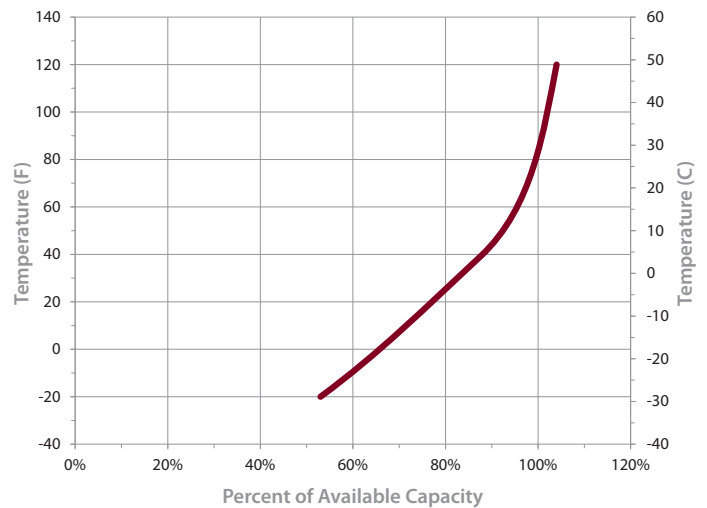
## BATTERY DIMENSIONS (shown with DT)



## TROJAN 6-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



TROJAN BATTERY COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV  
= ISO 9001:2008 =



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**MODEL:** 8D-AGM  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** VRLA AGM  
**COLOR:** Black (case/cover)  
**MATERIAL:** ABS  
**WATERING SYSTEM:** N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh) 100-Hr Rate	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>12 VOLT DUAL PURPOSE AGM BATTERY</b>														
8D	8D-AGM	460	1450	1850	179	210	230	254	3.05	6	20.47 (520)	10.64 (270)	9.08 (231)	167 (76)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) for AGM Lines and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.  
 D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.  
 E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.  
 F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.  
 G. Terminal images are representative only.  
 Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

### CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)

System Voltage	12V	24V	36V	48V
Daily Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

## OPERATIONAL DATA

Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

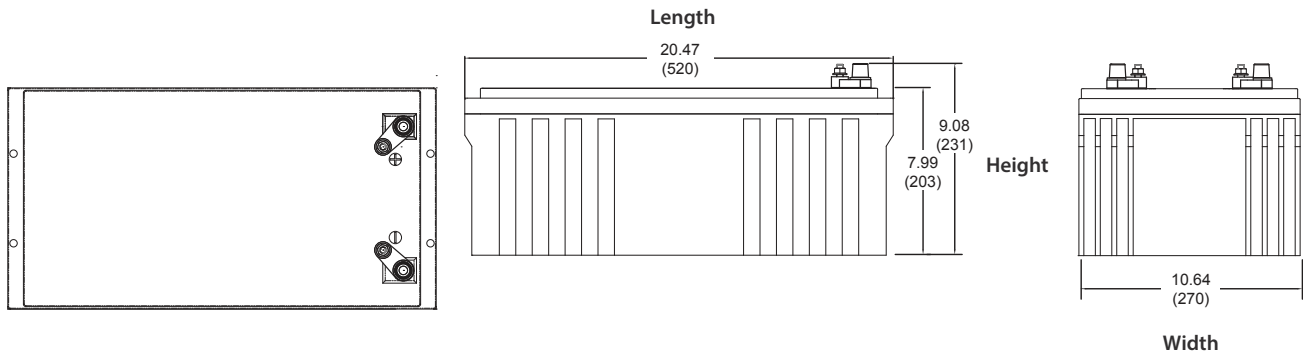
## TERMINAL CONFIGURATIONS

6	DT	Automotive Post & Stud Terminal
		Terminal Height Inches (mm) .79 (20)
		Torque Values in-lb (Nm) Bolt: 95 – 105 (11 – 12) AP: 50 – 70 (6 – 8) Bolt Size 5/16 – 18

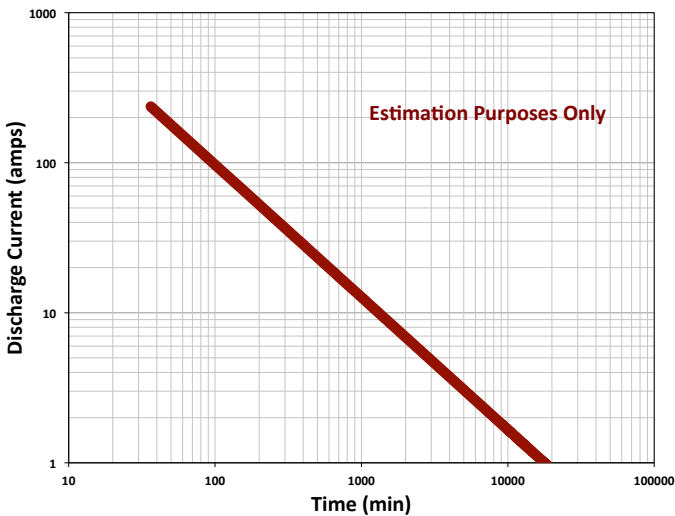


# 8D-AGM DATA SHEET

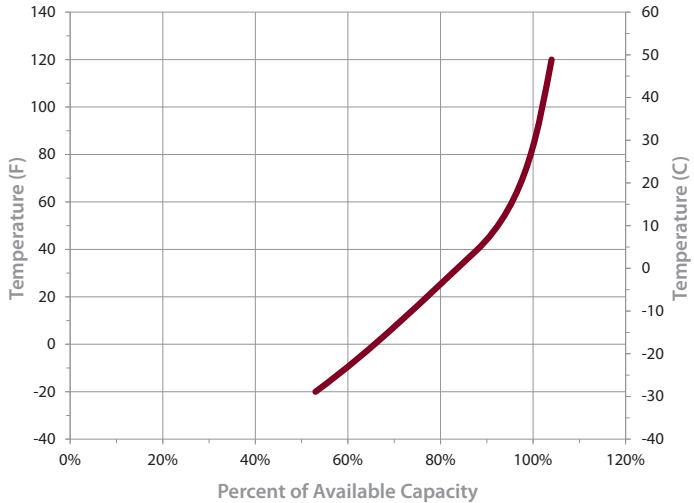
## BATTERY DIMENSIONS (shown with DT)



## TROJAN 8D-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



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**MODEL:** 12-AGM  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** VRLA AGM  
**COLOR:** Maroon (case/cover)  
**MATERIAL:** Polypropylene  
**WATERING SYSTEM:** N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh) 100-Hr Rate	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>12 VOLT DEEP CYCLE AGM BATTERY</b>														
GC12	12-AGM	280	825	900	112	127	140	144	1.72	13	13.54 (344)	6.76 (172)	10.88 (276)	100 (45)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) for AGM Lines and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.  
 D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.  
 E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.  
 F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.  
 G. Terminal images are representative only.  
 Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
System Voltage	12V	24V	36V	48V
Daily Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

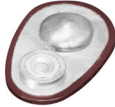
## EXPECTED LIFE VS. TEMPERATURE

Chemical reactions internal to the battery are driven by voltage and temperature. The higher the battery temperature, the faster chemical reactions will occur. While higher temperatures can provide improved discharge performance the increased rate of chemical reactions will result in a corresponding loss of battery life. As a rule of thumb, for every 10°C increase in temperature the reaction rate doubles. Thus, a month of operation at 35°C is equivalent in battery life to two months at 25°C. Heat is an enemy of all lead acid batteries, FLA, AGM and gel alike and even small increases in temperature will have a major influence on battery life.

## OPERATIONAL DATA

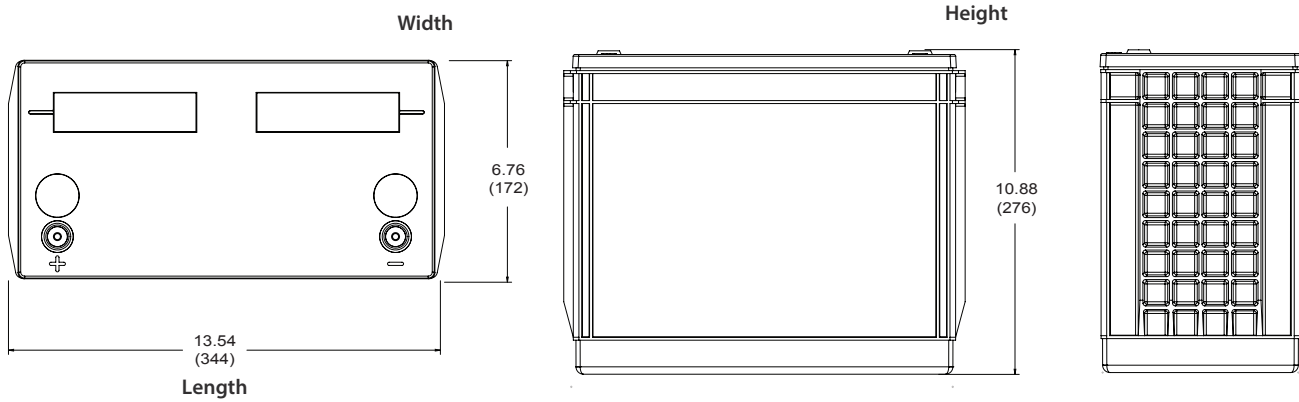
Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

## TERMINAL CONFIGURATIONS

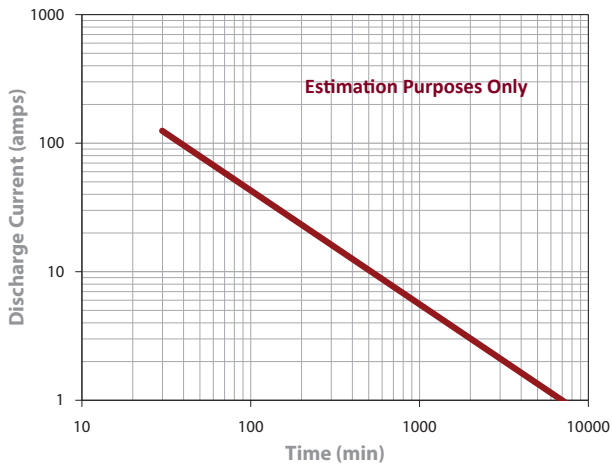
13	IT	Insert Terminal
		Terminal Height Inches (mm) .19 (4.7)
		Torque Values in-lb (Nm) 30 (3 – 4) Bolt Size 10-32UNF

# 12-AGM DATA SHEET

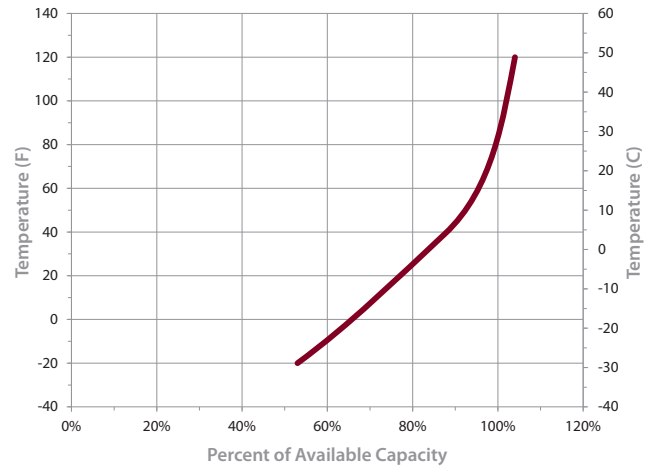
## BATTERY DIMENSIONS (shown with Insert Terminal)



## TROJAN 12-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



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<b>MODEL:</b>	22-AGM
<b>VOLTAGE:</b>	12
<b>DIMENSIONS:</b>	Inches (mm)
<b>BATTERY:</b>	VRLA AGM
<b>COLOR:</b>	Maroon (case/cover)
<b>MATERIAL:</b>	Polypropylene
<b>WATERING SYSTEM:</b>	N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance			CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh)	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>F</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>12 VOLT DEEP-CYCLE AGM BATTERY</b>															
22	22-AGM	79	280	336	43	47	50	52	0.624	13	8.96 (228)	5.49 (139)	8.04 (204)	40 (18)	

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour and 100-Hour rates and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal.
  - D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
  - E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M. C. A. @ 32°F.
  - F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
  - G. Terminal images are representative only.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

<b>CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)</b>				
System Voltage	12V	24V	36V	48V
Daily Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

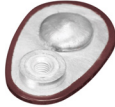
## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

## OPERATIONAL DATA

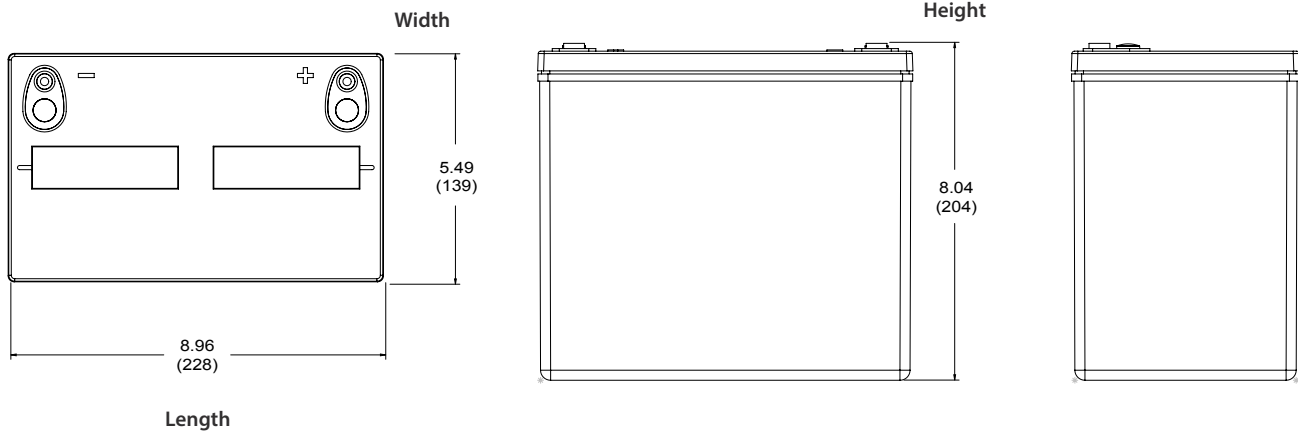
Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

## TERMINAL CONFIGURATIONS

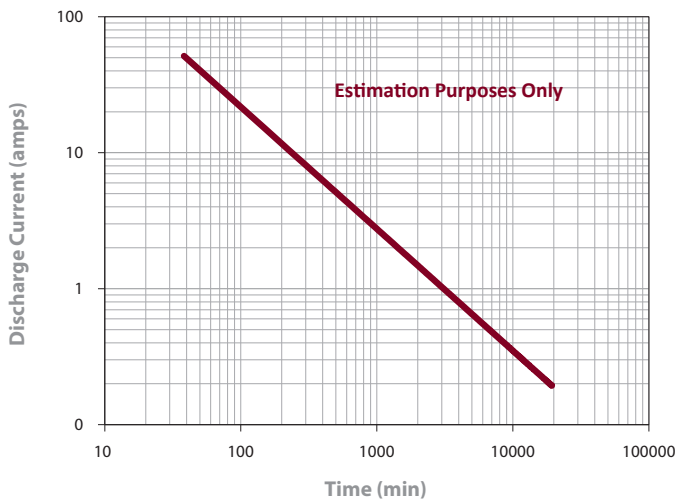
13	IT	Insert Terminal
		Terminal Height Inches (mm)
		.19 (4.7)
		Torque Values in-lb (Nm)
		30 (3 – 4)
		Bolt Size
		10-32UNF

# 22-AGM DATA SHEET

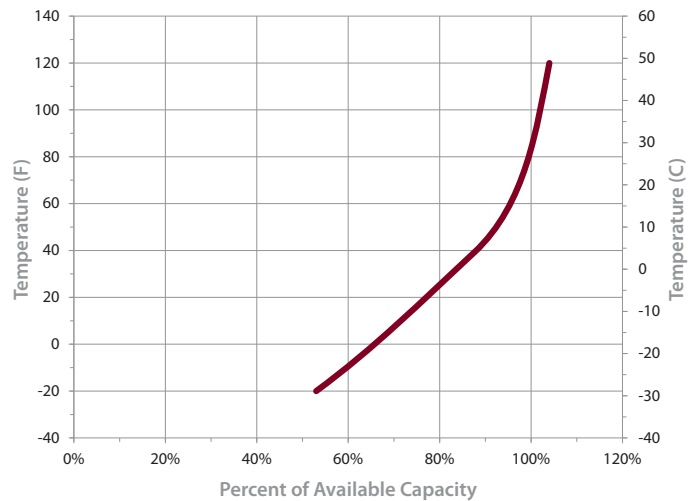
## BATTERY DIMENSIONS (shown with Insert Terminal)



## TROJAN 22-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



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COMPANY WITH  
QUALITY SYSTEM  
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<b>MODEL:</b>	24-AGM
<b>VOLTAGE:</b>	12
<b>DIMENSIONS:</b>	Inches (mm)
<b>BATTERY:</b>	VRLA AGM
<b>COLOR:</b>	Maroon (case/cover)
<b>MATERIAL:</b>	Polypropylene
<b>WATERING SYSTEM:</b>	N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh)	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			100-Hr Rate	Length	Width	
<b>12 VOLT DEEP CYCLE AGM BATTERY</b>														
24	24-AGM	137	500	600	67	70	76	84	1.01	6	10.77 (274)	6.84 (174)	8.62 (219)	54 (24)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) for AGM Lines and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.
- D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
- E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
- F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- G. Terminal images are representative only.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
System Voltage	12V	24V	36V	48V
Absorption Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float Charge	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.


## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

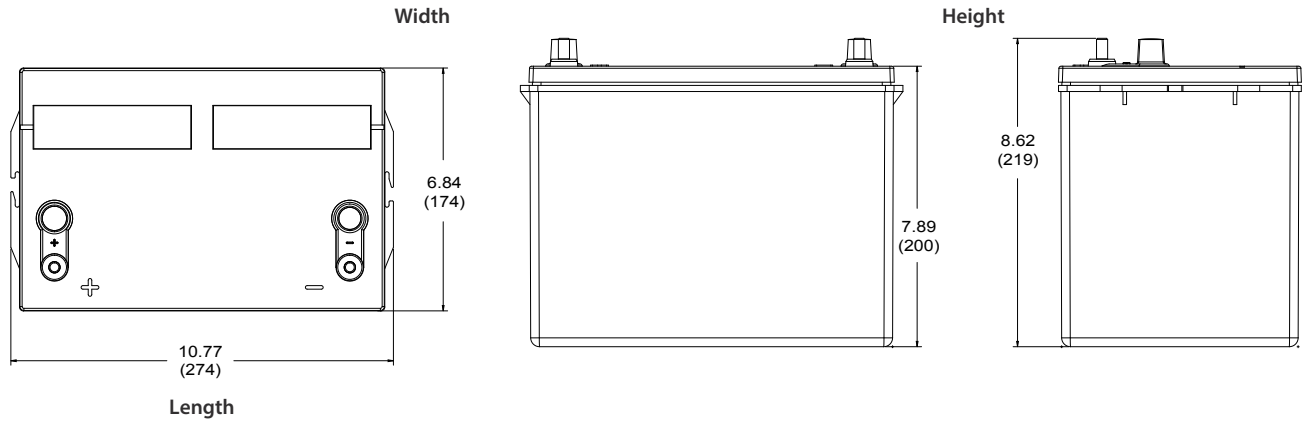
## OPERATIONAL DATA

Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

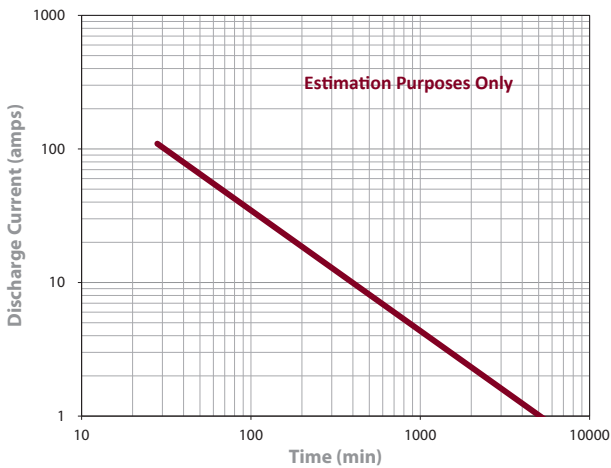
## TERMINAL CONFIGURATIONS

6	DT	Automotive Post & Stud Terminal
		
<i>Terminal Height Inches (mm)</i> .79 (20)		
<i>Torque Values in-lb (Nm)</i> Bolt: 95 – 105 (11 – 12) AP: 50 – 70 (6 – 8)		
<i>Bolt Size</i> 5/16 – 18		

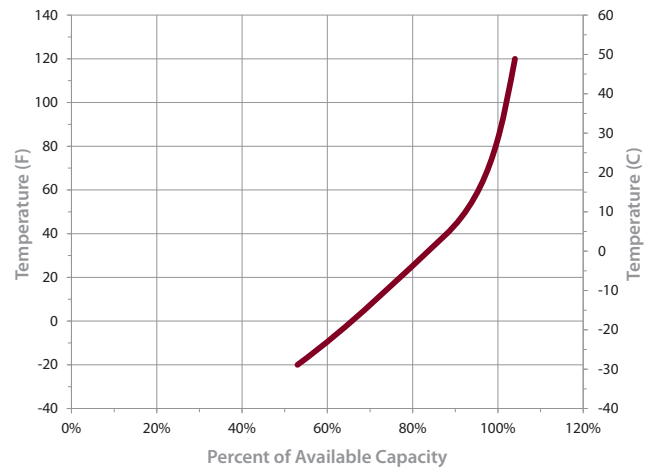
## BATTERY DIMENSIONS (shown with DT)



## 24-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



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**MODEL:** 27-AGM  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** VRLA AGM  
**COLOR:** Maroon (case/cover)  
**MATERIAL:** Polypropylene  
**WATERING SYSTEM:** N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh) 100-Hr Rate	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>12 VOLT DEEP CYCLE AGM BATTERY</b>														
27	27-AGM	158	550	660	77	82	89	99	1.19	6	12.05 (306)	6.84 (174)	9.32 (237)	64 (29)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) for AGM Lines and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.
  - D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
  - E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
  - F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
  - G. Terminal images are representative only.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

<b>CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)</b>				
System Voltage	12V	24V	36V	48V
Absorption Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float Charge	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

## OPERATIONAL DATA

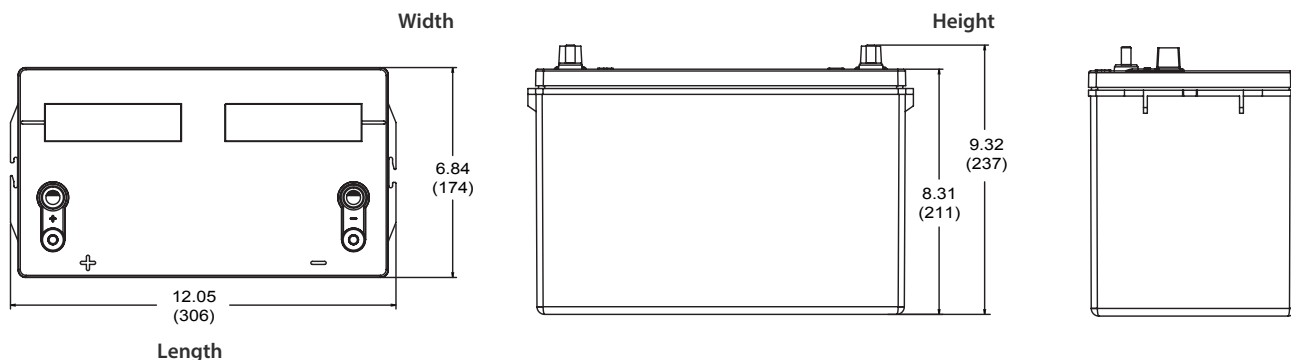
Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

## TERMINAL CONFIGURATIONS

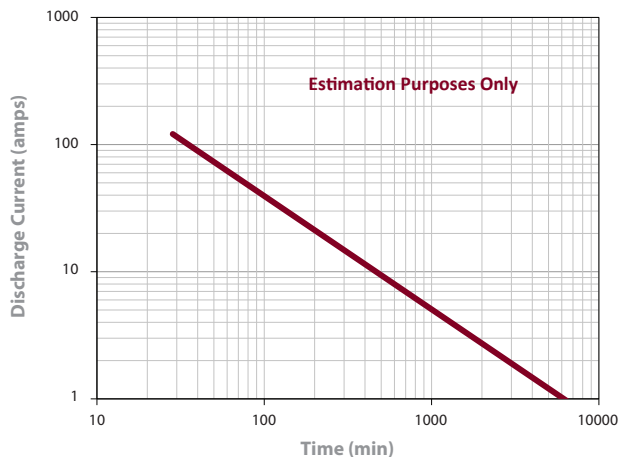
6	DT	Automotive Post & Stud Terminal
		Terminal Height Inches (mm) .79 (20)
		Torque Values in-lb (Nm) Bolt: 95 – 105 (11 – 12) AP: 50 – 70 (6 – 8) Bolt Size 5/16 – 18



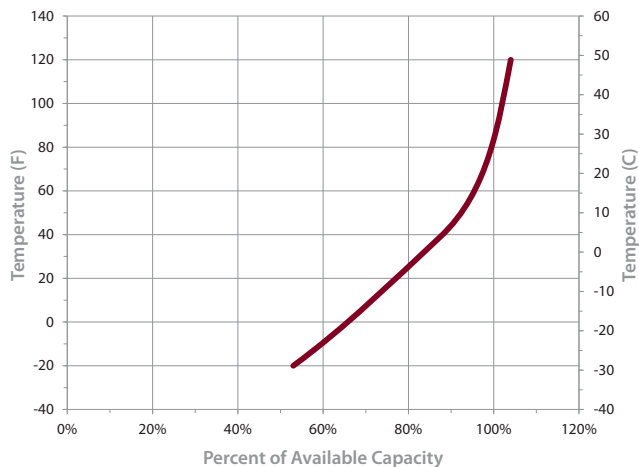
## BATTERY DIMENSIONS (shown with DT)



## TROJAN 27-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



TROJAN BATTERY  
COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001:2008 =



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<b>MODEL:</b>	31-AGM
<b>VOLTAGE:</b>	12
<b>DIMENSIONS:</b>	Inches (mm)
<b>BATTERY:</b>	VRLA AGM
<b>COLOR:</b>	Maroon (case/cover)
<b>MATERIAL:</b>	Polypropylene
<b>WATERING SYSTEM:</b>	N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh)	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			100-Hr Rate	Length	Width	
<b>12 VOLT DEEP CYCLE AGM BATTERY</b>														
31	31-AGM	177	600	720	82	92	100	111	1.33	6	13.73 (349)	6.80 (173)	9.16 (233)	69 (31)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) for AGM Lines and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.
- D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
- E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
- F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- G. Terminal images are representative only.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
System Voltage	12V	24V	36V	48V
Absorption Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float Charge	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.


## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

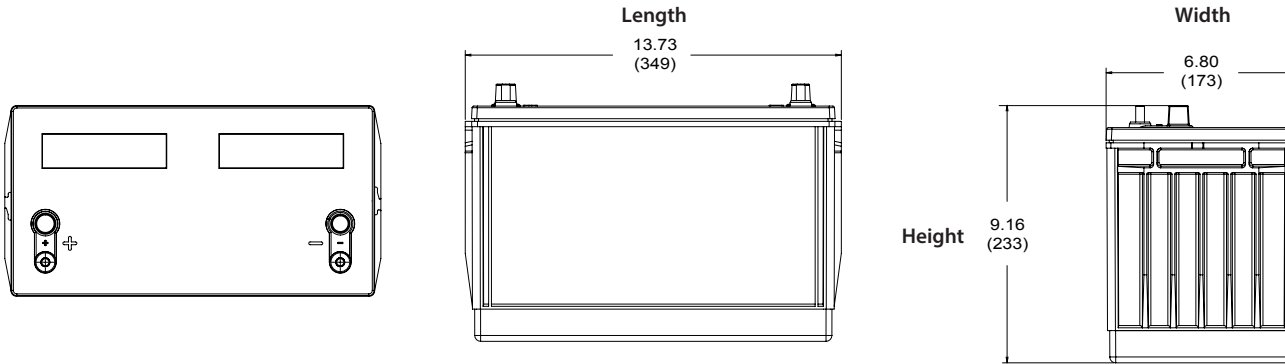
## OPERATIONAL DATA

Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

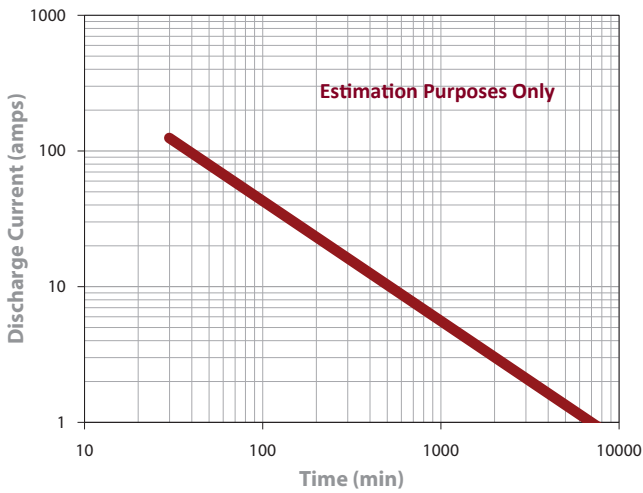
## TERMINAL CONFIGURATIONS

6	DT	Automotive Post & Stud Terminal
		
<i>Terminal Height Inches (mm)</i> .79 (20)		
<i>Torque Values in-lb (Nm)</i> Bolt: 95 – 105 (11 – 12) AP: 50 – 70 (6 – 8)		
<i>Bolt Size</i> 5/16 – 18		

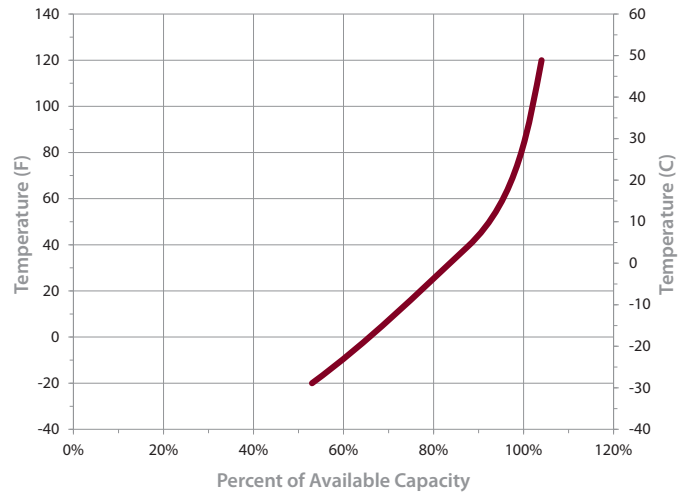
## BATTERY DIMENSIONS (shown with DT)



## TROJAN 31 AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



TROJAN BATTERY COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001:2008 =



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**MODEL:** OverDrive™ AGM 31  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** VRLA AGM  
**COLOR:** Maroon (case/cover)  
**MATERIAL:** Polypropylene  
**WATERING SYSTEM:** N/A



**PRODUCT SPECIFICATIONS**

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh) 100-Hr Rate	TERMINAL Type	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>12 VOLT CYCLING AGM BATTERY</b>														
31	OverDrive™ AGM 31	180	730	875	84	93	102	112	1.34	11	13.42 (341)	6.81 (173)	9.21 (234)	69 (31)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour and 100-Hour rates and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
  - C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal.
  - D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
  - E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M. C. A. @ 32°F.
  - F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
- Trojan's battery testing procedures adhere to both BCI and IEC test standards.

**CHARGING INSTRUCTIONS**

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)				
System Voltage	12V	24V	36V	48V
Daily Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.


**CHARGING TEMPERATURE COMPENSATION**

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

**OPERATIONAL DATA**

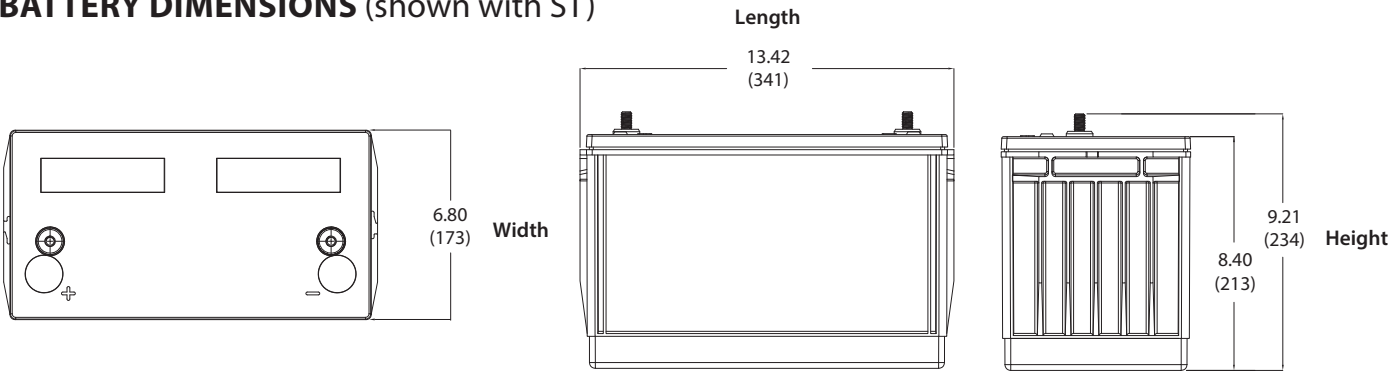
Operating Temperature	Self-discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

**TERMINAL CONFIGURATIONS**

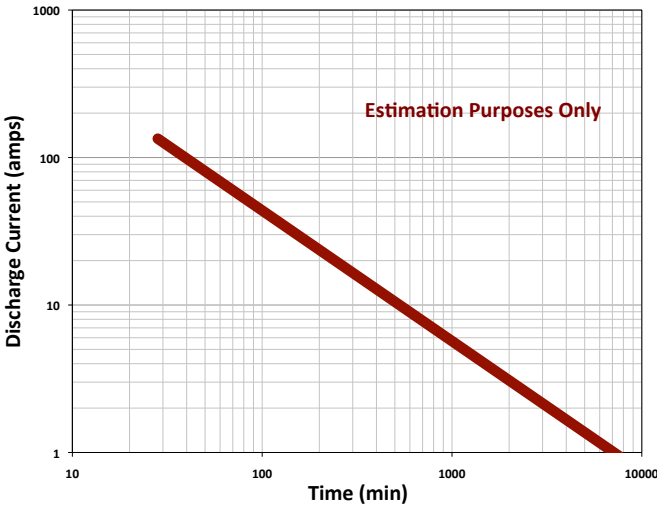
11	ST	Stud Terminal
		<i>Terminal Height Inches (mm)</i> .64 (16)
		<i>Torque Values in-lb (Nm)</i> 120 – 180 (14 – 20) <i>Stud Size</i> 3/8 – 16

# OVERDRIVE™ AGM 31 DATA SHEET

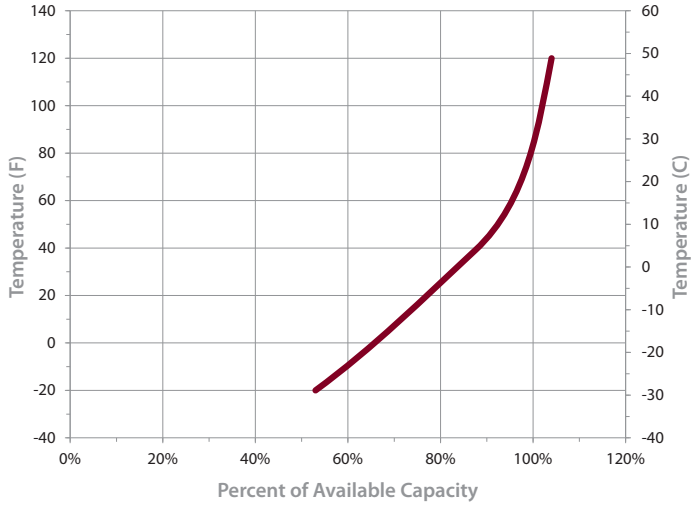
## BATTERY DIMENSIONS (shown with ST)



## TROJAN OVERDRIVE™ AGM 31 PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



TROJAN BATTERY COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001:2008 =



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**MODEL:** TransPower™ AGM 31  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** VRLA AGM  
**COLOR:** Maroon (case/cover)  
**MATERIAL:** Polypropylene  
**WATERING SYSTEM:** N/A



**PRODUCT SPECIFICATIONS**

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh) 100-Hr Rate	TERMINAL Type	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>12 VOLT STARTING AGM BATTERY</b>														
31	TransPower™ AGM 31	200	1000	1200	88	93	102	105	1.26	11	13.42 (341)	6.81 (173)	9.21 (234)	74 (34)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 80°F (27°C) for the 20-Hour and 100-Hour rates and 86°F (30°C) for the 5-Hour rate and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal.
- D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.
- E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M. C. A. @ 32°F.
- F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal. Trojan's battery testing procedures adhere to both BCI and IEC test standards.

**CHARGING INSTRUCTIONS**

<b>CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)</b>				
System Voltage	12V	24V	36V	48V
Daily Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.


**CHARGING TEMPERATURE COMPENSATION**

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

**OPERATIONAL DATA**

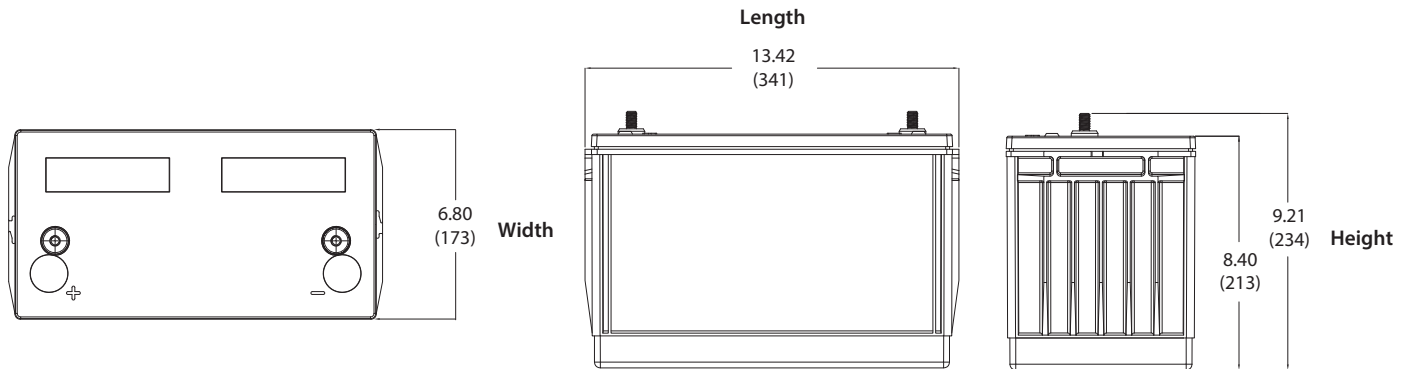
Operating Temperature	Self-discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

**TERMINAL CONFIGURATIONS**

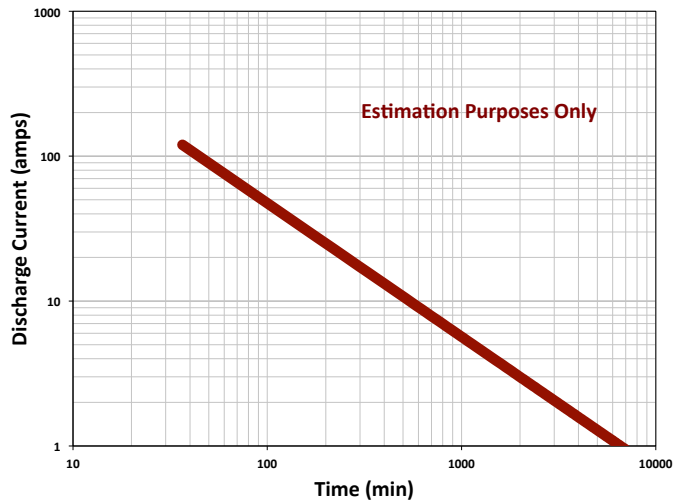
11	ST	Stud Terminal
		<i>Terminal Height Inches (mm)</i> .64 (16)
		<i>Torque Values in-lb (Nm)</i> 120 – 180 (14 – 20) <i>Stud Size</i> 3/8 – 16

# TRANSPOWER™ AGM 31 DATA SHEET

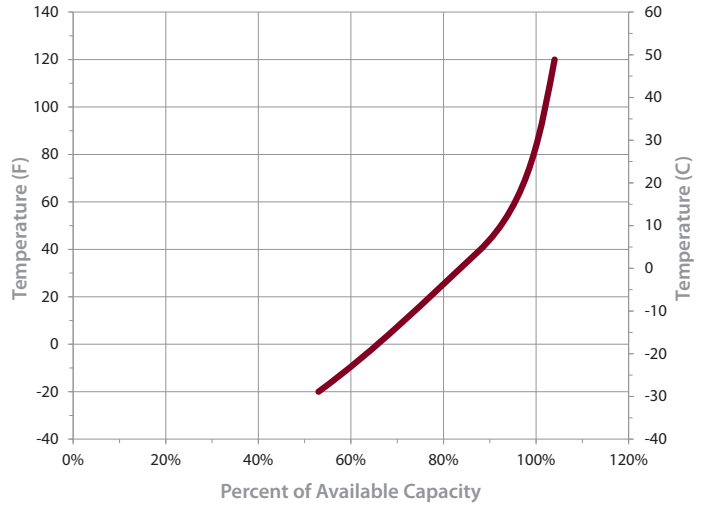
## BATTERY DIMENSIONS (shown with ST)



## TROJAN TRANSPOWER™ AGM 31 PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



TROJAN BATTERY  
COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
= ISO 9001:2008 =



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**MODEL:** U1-AGM  
**VOLTAGE:** 12  
**DIMENSIONS:** Inches (mm)  
**BATTERY:** VRLA AGM  
**COLOR:** Maroon (case/cover)  
**MATERIAL:** Polypropylene  
**WATERING SYSTEM:** N/A



## PRODUCT SPECIFICATIONS

BCI GROUP SIZE	TYPE	CAPACITY <sup>A</sup> Minutes @25 Amps	CRANKING Performance		CAPACITY <sup>B</sup> Amp-Hours (AH)				ENERGY (kWh) 100-Hr Rate	TERMINAL Type <sup>G</sup>	DIMENSIONS <sup>C</sup> Inches (mm)			WEIGHT lbs. (kg)
			C.C.A. <sup>D</sup> @0°F	C.A. <sup>E</sup> @32°F	5-Hr Rate	10-Hr Rate	20-Hr Rate	100-Hr Rate			Length	Width	Height <sup>F</sup>	
<b>12 VOLT DEEP CYCLE AGM BATTERY</b>														
U1	U1-AGM	42	240	306	29	31	33	34	0.408	13	7.78 (198)	5.20 (138)	6.75 (171)	27 (12)

- A. The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 B. The amount of amp-hours (AH) a battery can deliver when discharged at a constant rate at 77°F (25°C) for AGM Lines and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.  
 C. Dimensions are based on nominal size. Dimensions may vary depending on type of handle or terminal. Batteries to be mounted with .5 inches (12.7 mm) spacing minimum.  
 D. C.C.A. (Cold Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F at a voltage above 1.2 V/cell.  
 E. C.A. (Cranking Amps) - the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.  
 F. Dimensions taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.  
 G. Terminal images are representative only.  
 Trojan's battery testing procedures adhere to both BCI and IEC test standards.

## CHARGING INSTRUCTIONS

### CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)

System Voltage	12V	24V	36V	48V
Absorption Charge	14.1 – 14.7	28.2 – 29.4	42.3 – 44.1	56.4 – 58.8
Float Charge	13.5	27	40.5	54

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

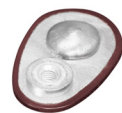
## CHARGING TEMPERATURE COMPENSATION

.028 VPC for every 10°F (5.55°C) above or below 77°F (25°C) (add .028 VPC for every 10°F (5.55°C) below 77°F and subtract .028 VPC for every 10°C above 77°F).

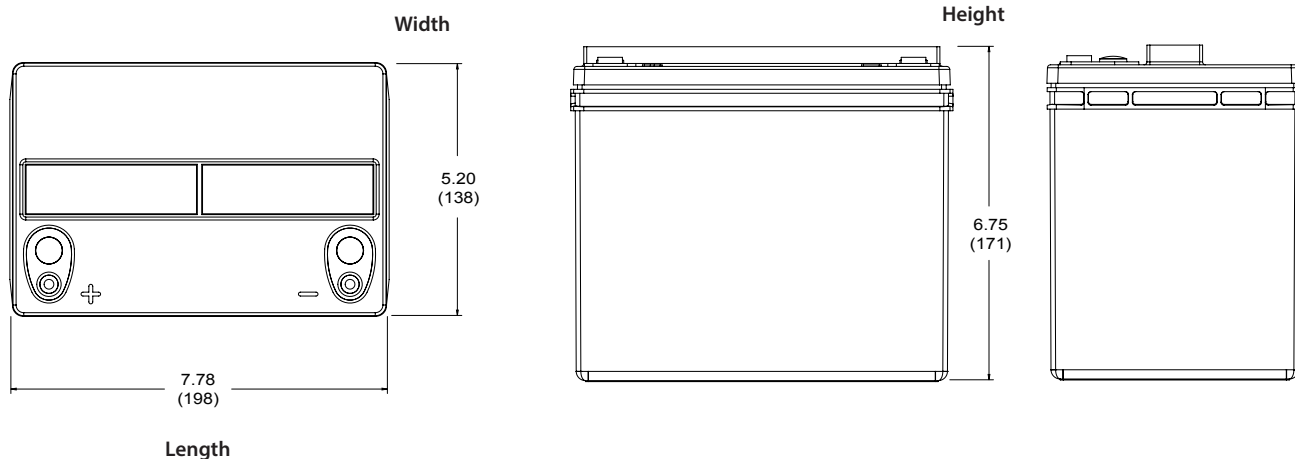
## OPERATIONAL DATA

Operating Temperature	Self Discharge
-4°F to 131°F (-20°C to +55°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 3% per month depending on storage temperature conditions.

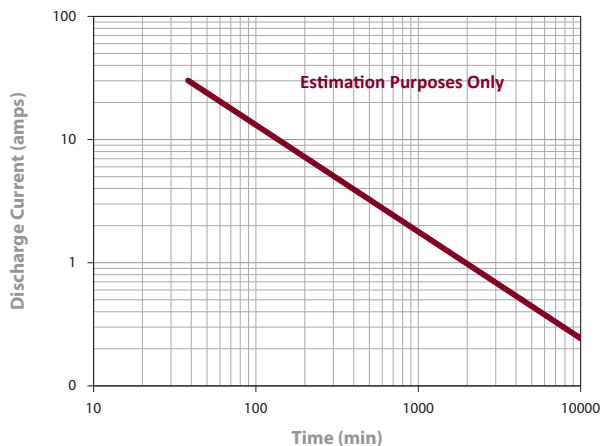
## TERMINAL CONFIGURATIONS

13	IT	Insert Terminal
		Terminal Height Inches (mm) .19 (4.7)
		Torque Values in-lb (Nm) 30 (3 – 4) Bolt Size 10-32UNF

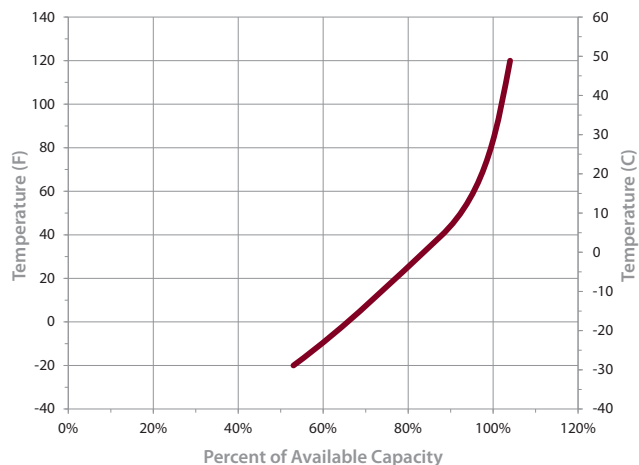
## BATTERY DIMENSIONS (shown with Insert Terminal)



## TROJAN U1-AGM PERFORMANCE



## PERCENT CAPACITY VS. TEMPERATURE



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