

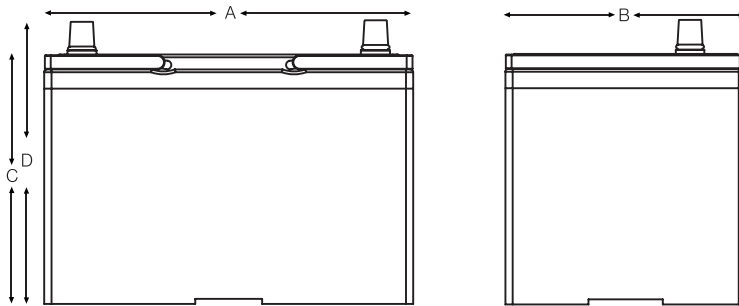


## Light Traction Bloc Batteries

# G06-12-105-3

## (12V 108Ah @ 5hr)

Eternity Technologies valve regulated lead-acid batteries for the light traction market. With an innovative Gel-technology and maintenance free design, Eternity Technology Gel Bloc batteries are compatible with all universal cyclic applications.



### Electrical Specifications

<b>Voltage</b>	12V
<b>80% DOD Voltage Cutoff</b>	11.2V
<b>Self Discharge</b>	Less than 3% per month (20°C/68°F)
<b>Charge Temperature</b>	Min: -10°C (14°F) / Max: 50°C (122°F)
<b>Discharge Temperature**</b>	Min: -40°C (-40°F) / Max: 50°C (122°F)
<b>Storage</b>	Min: -20°C (-4°F) / Max: 60°C (140°F)

Amp Hours (AH)					
20 HR	10 HR	5 HR	3 HR	2 HR	1 HR
123	116	108	102	92	81

\*\* CAUTION: Depths of discharge, operating voltages and currents, when designing systems for use at maximum temperatures, will vary.

### Mechanical Specifications

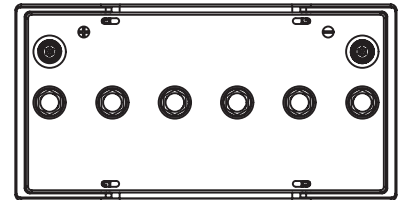
<b>Industry Reference</b>	12	
<b>Length (A)</b>	13 in	329 mm
<b>Width (B)</b>	6.7 in	170 mm
<b>Height (C)</b>	10.2 in	258 mm
<b>Height (D)</b>	10.2 in	282 mm
<b>Weight</b>	93 lbs	42 kgs
<b>Terminal (Opt'l)*</b>	A-POLE	
<b>Cell(s)</b>	6	
<b>Electrolyte</b>	Gel	
<b>Terminal Torque Nm</b>	8	

NOTE: There is a tolerance of +/-2%.

\* Including A-Terminal

### B Part of our Bloc Batteries range

Left - Positive Right - Negative



### Features

- Maintenance-free bloc batteries in Gel technology (no topping up during lifetime)
- Good high current performance for extreme operating conditions
- High-class patented safety valve
- 700 cycles (DIN EN 60254-1) (IEC 254-1)
- Valve-regulated lead-acid battery
- Recyclable
- Long cycle life
- Low self discharge rate allows for up to 2 years shelf life
- Classified as a non-spillable battery is not restricted for transportation by:
  - Air (IATA/ICAO provision 67)
  - Ground (STB, DOT-CFR-HMR49)
  - Water (IMDG amendment 27)

### Applications

- Electric vehicles
- Wheelchairs
- Cleaning machines
- Electric working platforms
- Universal for multiple cyclic applications

### Compliant with

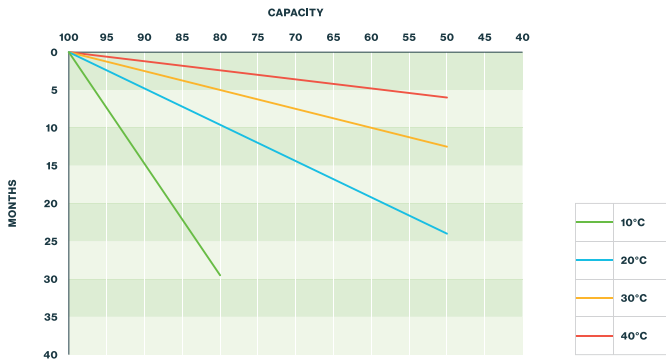
EN60254-1&2 & IEC254-1/2  
ISO 7176-25 SAE J1495

# Charging profile

**IU Charging** I = min. 12% C<sub>5</sub> max. 18% C<sub>5</sub>  
U = 2.4 V per cell

**IUI Charging** I<sub>1</sub> = min. 12% C<sub>5</sub> max. 18% C<sub>5</sub>  
U = 2.35 V per cell  
I<sub>2</sub> = 1.5 % C<sub>5</sub> for max. 4 hours

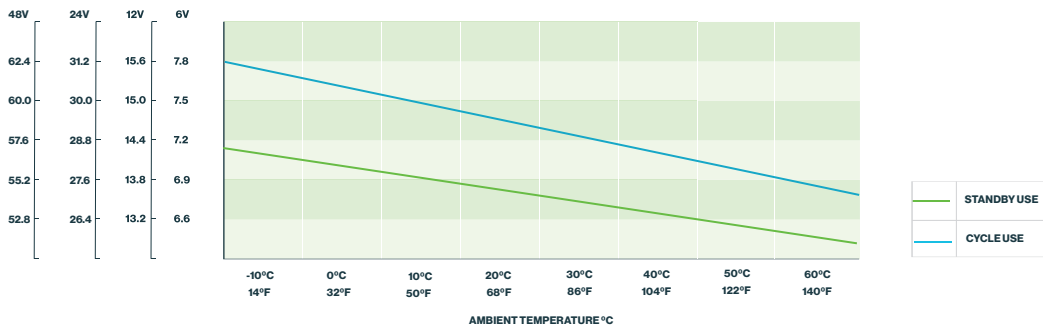
## Self discharge at different temperatures



## Capacity vs. temperature



## Relation between charging, voltage and temperature



## Storage: Determine the state of charge

