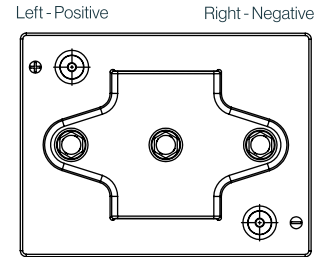
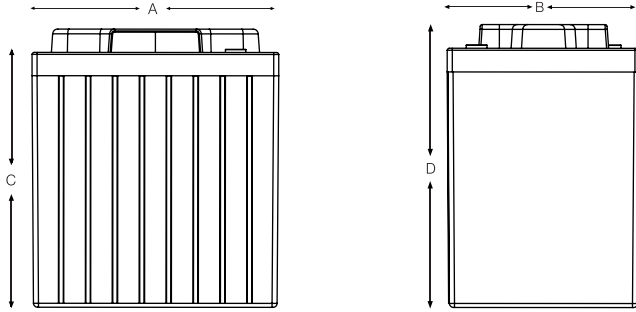


# G06-06-180

## Semi-Traction Bloc Battery



### Electrical Specifications

<b>Voltage</b>	6V
<b>80% DOD Voltage Cutoff</b>	5.6V
<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)

Cell Type Ue (100%) / VPC Ref Temp	C20 1.75 25°C	C10 1.75 25°C	C5 1.70 25°C	C3 1.70 25°C	C2 1.70 25°C	C1 1.70 25°C
G0606180	210	198	184	171	156	133

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

### Mechanical Specifications

Industry Reference	-	
<b>Length (A)</b>	9.5 in	243 mm
<b>Width (B)</b>	7.3 in	187 mm
<b>Height (C)</b>	9.9 in	251 mm
<b>Height (D)*</b>	10.8 in	274 mm
<b>Weight</b>	71 lbs	32 kgs
<b>Terminal (Opt'l)</b>	M8 / AP	
<b>Cell(s)</b>	3	
<b>Electrolyte</b>	Gel	
<b>Terminal Torque Nm</b>	8	

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

**Terminal Options Available:**  
**M8**  
**A-Pole**

### Features

- Maintenance-free bloc batteries in Gel technology (no topping up during lifetime)

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- Good high current performance for extreme operating conditions

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- High-class patented safety valve

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- 700 cycles (DIN EN 60254-1) (IEC 254-1)

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- Valve-regulated lead-acid battery

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- Recyclable

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- Long cycle life

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- Low self discharge rate allows for up to 2 years shelf life

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- 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)

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- Applications**

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- Electric vehicles

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- Wheelchairs

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- Cleaning machines

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- Electric working platforms

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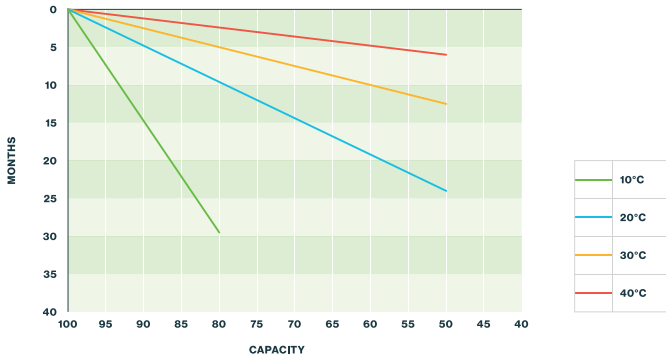
- Universal for multiple cyclic applications

## Charging profile

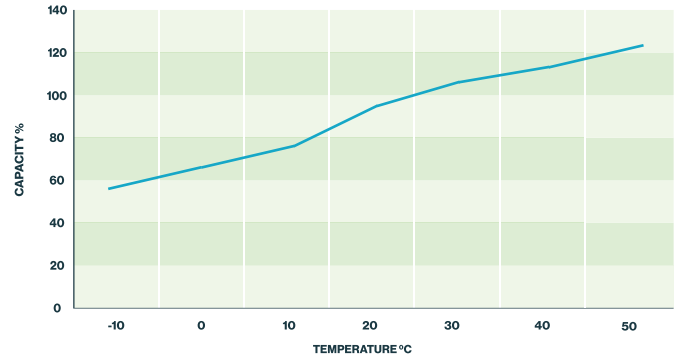
**IU Charging** I = min. 12% C<sub>5</sub> max. 18% C<sub>5</sub>  
U = 2.4 V per cell

**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

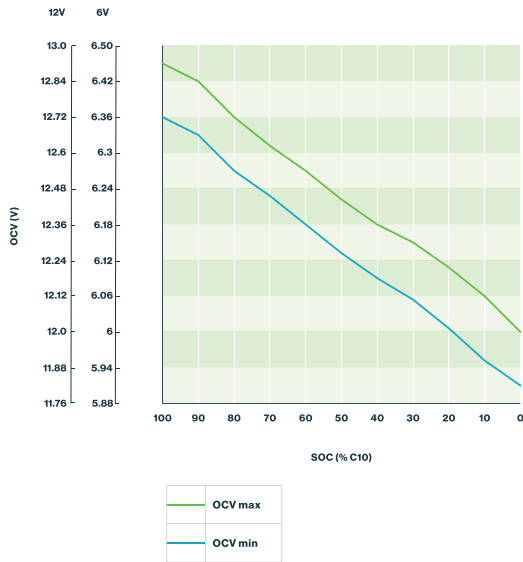
### Self discharge at different temperatures



### Capacity vs. temperature



### Storage: Determine the state of charge



### Relation between charging, voltage and temperature

