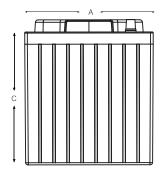
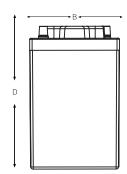


G06-06-180-3

Semi-Traction Bloc Battery





Electrical Specifications

Voltage	6V		
80% DOD Voltage Cutoff	5.6V		
Self Discharge	Less than 3% per month (20°C/68°F)		
Charge Temperature	Min: -10°C (14°F) / Max: 50°C (122°F)		
Discharge Temperature**	Min: -40°C (-40°F) / Max: 50°C (122°F)		
Storage	Min: -20°C (-4°F) / Max: 60°C (140°F)		

Amp Hours (AH)						
20 HR	10 HR	5HR	3HR	2HR	1HR	
220	198	180	166	156	126	

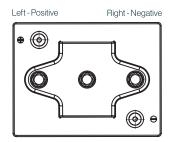
^{**} CAUTION: Depths of discharge, operating voltages and currents, when designing systems for use at maximum temperatures, will vary.

Mechanical Specifications

Industry Reference	-		
Length (A)	9.5 in	242 mm	
Width (B)	7.3 in	186 mm	
Height (C)	9.9 in	251 mm	
Height (D)*	10.8 in	274 mm	
Weight	71 lb	32 kg	
Terminal (Opt'l)	A-POLE		
Cell(s)	3		
Electrolyte	Gel		
Terminal Torque Nm	8		

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





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

^{*} Including A-Terminal



Charging profile

IU Charging $I = min. 12\% C_5 max. 18\% C_5$

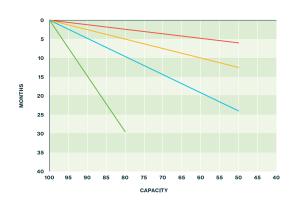
U = 2.4 V per cell

IUI Charging $I_1 = min. 12\% C_5 max. 18\% C_5$

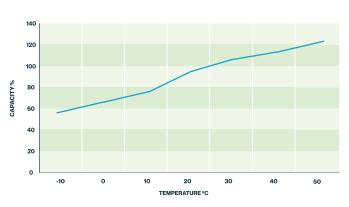
 $U = 2.35 \, \text{V} \, \text{per cell}$

 $I_2 = 1.5 \% C_5$ for max. 4 hours

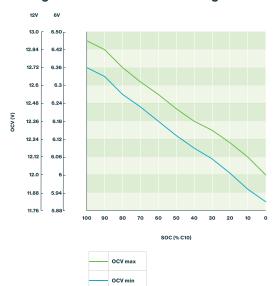
Self discharge at different temperatures



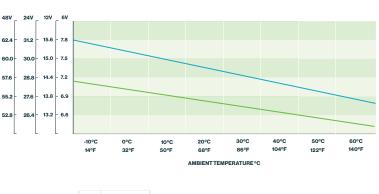
Capacity vs. temperature



Storage: Determine the state of charge



Relation between charging, voltage and temperature



10°C

20°C

30°C

40°C