



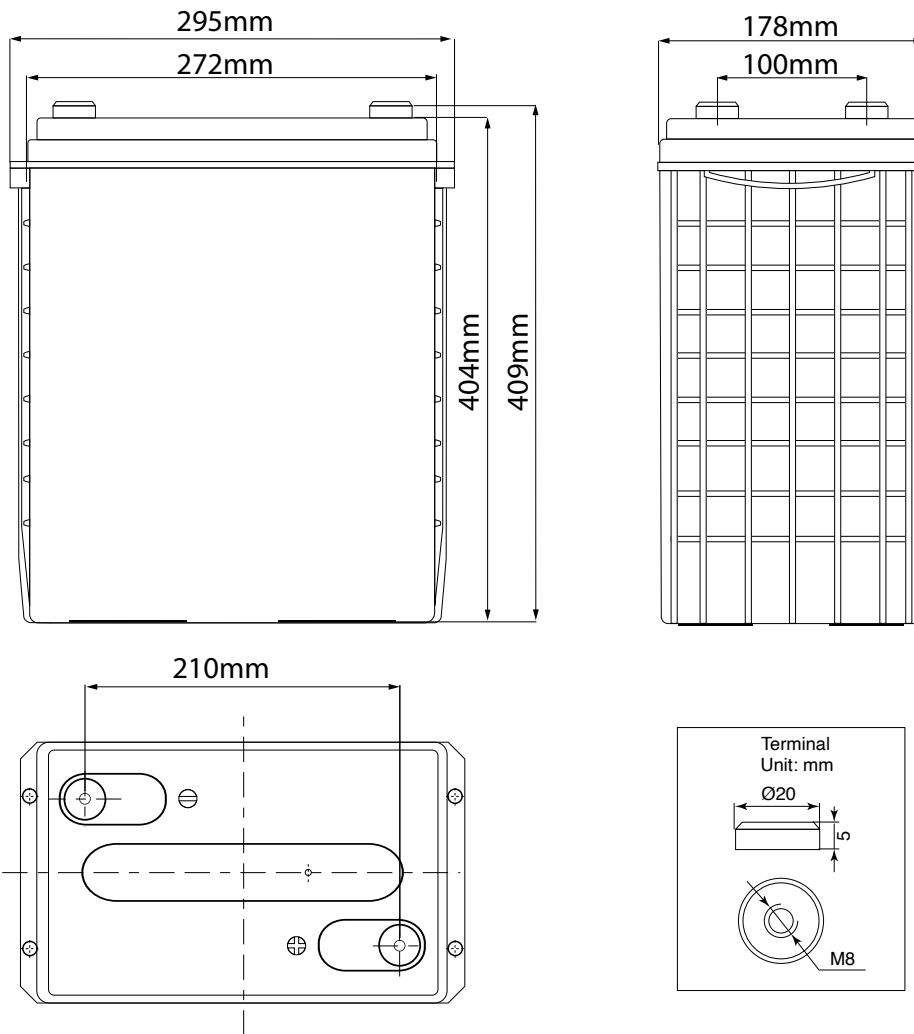
LEAD CARBON BATTERY

HC6-420

HUB CARBON

The HC series lead-carbon batteries use activated carbon and graphene in the manufacturing process. Our advantages include long cycle life and significantly reduced battery sulfation. The battery technology improves the ability of rapid charge and discharge and greatly prolongs battery life with more than 2000 cycles at 80 % DOD. The HC series are best suited for cycling and partial state of charge (PSOC) applications.

TECHNICAL DRAWING



BENEFITS AND ADVANTAGES

Start at the Core

- Able to operate at -40C to +60C
- DOD @ 50%, 3000 cycles
- Integrated design to ensure the best uniformity and reliability
- Long life and high stability in partial state of charge (PSOC)
- IEC 60896, UL

APPLICATIONS

- Off Grid Cabins & Homes
- Marine / RV
- Hybrid Solar & Grid Tie
- Wheel Chairs, Golf Carts
- Telecom Systems
- Off-Grid Industrial
- Micro Grid Systems

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ELECTRICAL SPECIFICATIONS

Nominal Voltage	6V
Amp Hour Capacity C 20	420AH
Amp Hour Capacity C 48	437AH
Amp Hour Capacity C 72	448AH
Amp Hour Capacity C 100	466AH
Amp Hour Capacity C 120	475AH
Amp Hour Capacity C 240	486AH

TEMPERATURE SPECIFICATIONS

Cold temperature applications	
Discharge Temperature	(-40C)
Charge Temperature	(-40C)
Storage	-40C to 45C

CHARGE SPECIFICATIONS

Recommend Charge current	42A
Max Charge current	100A
Bulk Charge V	7.2
Absorption V	7.2
Float V	6.8V
Equalization V \leq 84A	7.45

DISCHARGE SPECIFICATIONS

Current Discharge Rates	
20 hour rate	21AH
10 hour rate	37.8AH
5 hour rate	66.8AH
1 hour rate	233AH

MECHANICAL SPECIFICATIONS

Dimensions	12 x 7.1 x 16.7in
L x W x H	295 x 178x 424mm
Weight	125 lbs (56.8KG)
Terminal Type	Auto/Stud
Terminal Torque	90 in lbs (10NM)
Case Material	ABS
Case IP Rating	IP56
Cell Type - Chemistry	Lead Carbon VRLA
Cell Type	Flat Plate

SAFETY TESTED

Safety Ratings	IEC60896
	CE
	UL

PERFORMANCE CHARACTERISTICS

