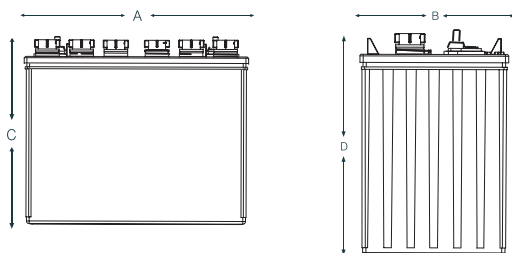


QSRF 1275 (GC12)

QUASAR Flooded Carbon Nano Battery



Electrical Specifications

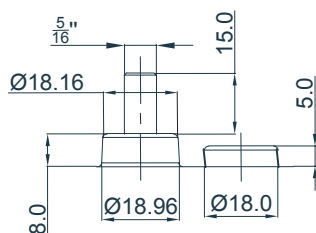
C5 Capacity	120Ah
C20 Capacity	150Ah
Voltage	12V
80% DOD Voltage Cutoff	11.5V
Self Discharge	Less than 3% per month (20°C/68°F)
Charge Temperature	Min: -10°C (14°F) / Max: 50°C (122°F)
Discharge Temperature**	Min: -40°C (-40°F) / Max: 50°C (122°F)
Storage	Min: -20°C (-4°F) / Max: 60°C (140°F)

Mechanical Specifications

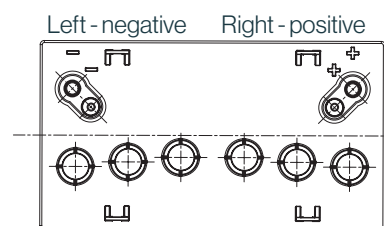
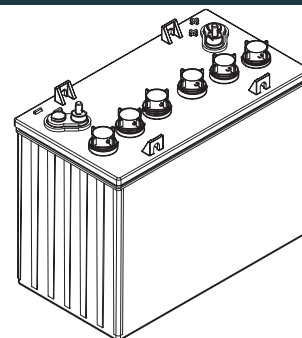
Industry Reference	GC12	
Length (A)	13.1 in	333 mm
Width (B)	7.2 in	183 mm
Height over lid (C)	9.8 in	248 mm
Height over stud (D)	11.0 in	280 mm
Weight	85.9 lbs	39 kgs
Terminal (Opt'l)	UTL	
Cell(s)	6	
Electrolyte	Flooded	
Terminal Torque Nm	11-12Nm	

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

UTL



Positive & Negative



Features

Ultra energy efficient due to low resistance

Reduced operating temperatures for increased cycle life (up to 1000 cycles) and battery lifetime

Suitable for opportunity charging

Cost savings due to increased efficiency

Up to 2 x faster recharge

Allows for opportunity charging to give you those extra running times when required

Suitable for extreme temperature variants

Applications

Golf carts, including electric vehicles

Access Work Platform (AWP)

Cleaning Machines

Maritime

Wheelchairs

Solar

Renewable Energy

Traffic Systems

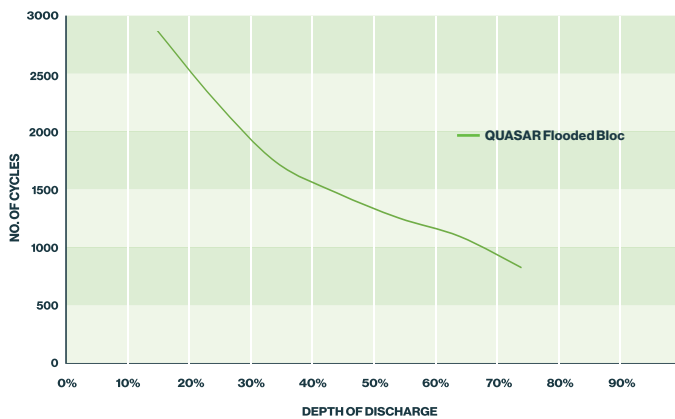
Caravans / Motorhomes RV's

Home Invertor

Charging profile

IUI Charging $I_1 = \text{min. } 12\% C_5 \text{ max. } 40\% C_5$
 $U = 2.45 \text{ V per cell}$
 $I_2 = 6\% C_5 \text{ for max. 4 hours}$

Cycle life vs. depth of discharge (25°C)



Capacity vs Temperature

