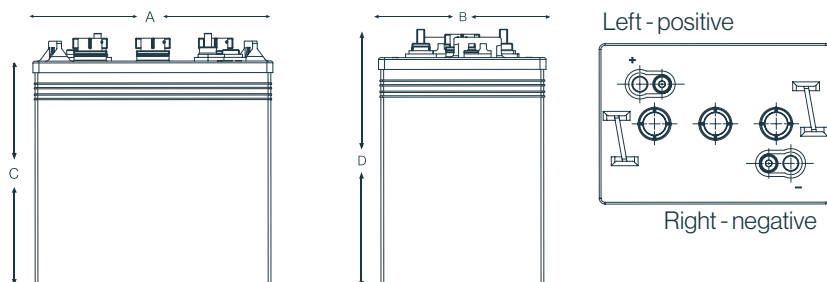


QSRF 105 (GC2)

QUASAR Flooded Carbon Nano Battery



Electrical Specifications

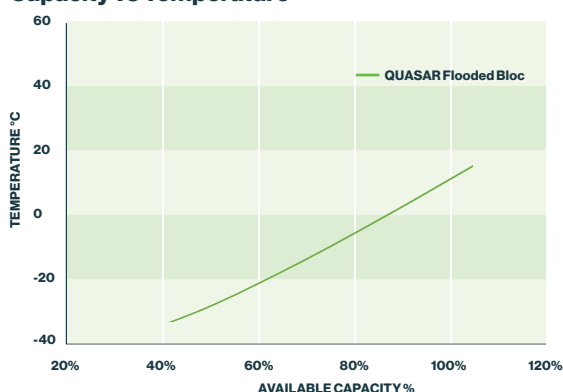
C5 Capacity	185Ah
C20 Capacity	225Ah
Capacity Minutes @25 Amps	454
Capacity Minutes @75 Amps	116
Voltage	6V
80% DOD Voltage Cutoff	5.6V
Self Discharge	Less than 3% per month (20°C/68°F)
Charge Temperature	Min: -10°C (14°F) / Max: 50°C (122°F)
Discharge Temperature**	Min: -40°C (-40°F) / Max: 50°C (122°F)
Storage	Min: -20°C (-4°F) / Max: 60°C (140°F)

Mechanical Specifications

Industry Reference	GC2	
Length (A)	10.2 in	260 mm
Width (B)	7.1 in	180 mm
Height (C)	9.7 in	247 mm
Height (D)	10.9 in	277 mm
Weight	61.7 lbs	28 kgs
Terminal (Opt'l)	UTL	
Cell(s)	3	
Electrolyte	Flooded	
Terminal Torque Nm	11-12Nm	

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

Capacity vs Temperature



Features

Ultra energy efficient due to low resistance

Increased cycle life due to Carbon Nano Tube Technology

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

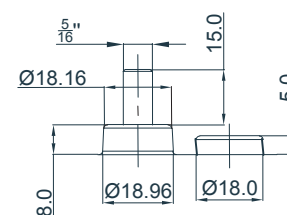
Solar & Renewable Energy

Traffic Systems

Caravans / Motorhomes RV's

Home Invertor

UTL Positive & Negative



Compliant with: IEC 60254

Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.

Charging profile

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

Charging instructions

Charging Voltage Settings 77°F / @ 25°C						
System Voltage	Per Cell	6V	12V	24V	36V	48V
Bulk Charge	2.47	7.41	14.82	29.64	44.46	59.28
Float Voltage	2.25	6.75	13.50	27.00	40.50	54.00
Equalize Voltage	2.70	8.10	16.20	32.40	48.60	64.80

Charging temperatures

ADD	SUBTRACT
0.005Vpc for every 1°C below 25°C	0.005Vpc for every 1°C above 25°C
0.0028Vpc for every 1°F below 77°F	0.0028Vpc for every 1°F above 77°F

State of Charge Measure of Open - Circuit Voltage

% of SoC	Sp.Gravity	OCV	
		Cell	6V
100	1.285	2.125	6.38
90	1.265	2.105	6.32
80	1.246	2.086	6.26
70	1.227	2.067	6.20
60	1.207	2.047	6.14
50	1.188	2.028	6.08
40	1.169	2.009	6.03
30	1.150	1.990	5.97
20	1.130	1.970	5.91
10	1.111	1.951	5.85
0	1.092	1.932	5.80