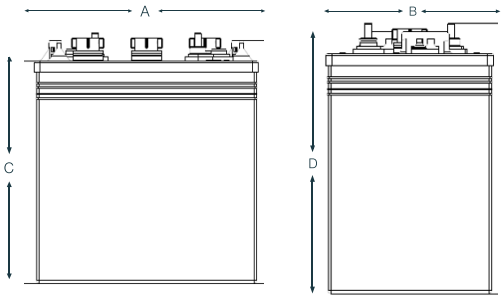
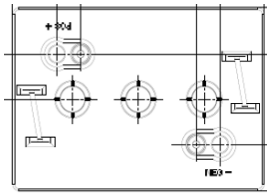
QSRF 125 (GC2)

QUASAR Flooded Carbon Nano Battery



Left - positive



Right - negative

Electrical Specifications

C5 Capacity	195 Ah
C20 Capacity	240 Ah
Capacity Minutes @25 Amps	495
Capacity Minutes @75 Amps	134
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	66.1 lbs	30 kgs
Terminal (Opt'l)	UTL	
Cell(s)	3	
Electrolyte	Flooded	
Terminal Torque Nm	11-12	

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

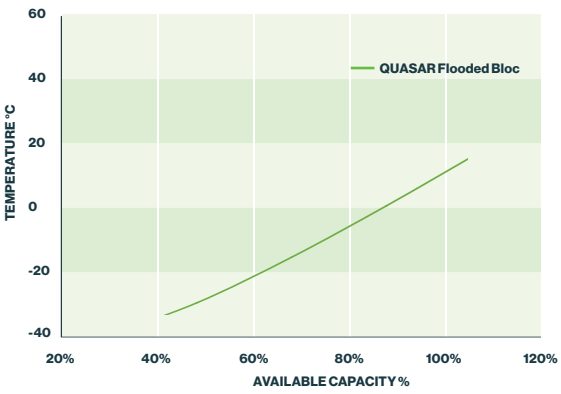
Features

- 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

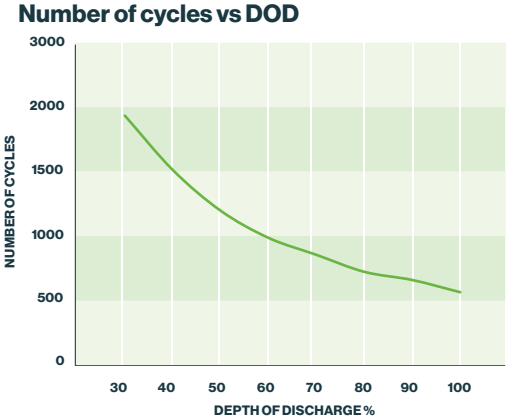
Applications

- Golf carts, including electric vehicles
- Access Work Platform (AWP)
- Cleaning Machines
- Maritime
- Wheelchairs
- Solar & Renewable Energy
- Traffic Systems
- Caravans / Motorhomes RV's
- Home Invertor

Capacity vs Temperature

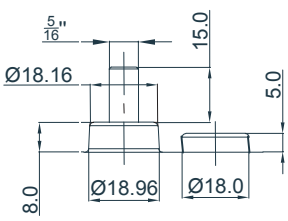


Number of cycles vs DOD



UTL

Positive & Negative



Charging profile

IUI Charging

I_1 = min. 12% C_5 max. 40% C_5
U = 2.45 V per cell
I_2 = 6% C_5 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

Compliant with: IEC 60254
Designed in compliance with applicable BCI, DIN, BS and IEC standards.
Tested in compliance to BCI and IEC standards.

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