

DATA SHEET



MODEL SSIG 12 145

VOLTAGE 12V

CAPACITY 145Ah @ 100Hr

MATERIAL Polypropylene

DIMENSIONS Inches (mm)

BATTERY Deep-Cycle Flooded/Lead Acid Battery

COLOR Maroon

WATERING N/A



12V

PRODUCT + PHYSICAL SPECIFICATIONS

Model	Terminal Type ^D	Dimensions ^a Inches (mm)		Weight ^E Lbs. (kg)	HydroLink or SPWK	Handles	
		Length	Width	Height ^C			
SSIG 12 145	9	13.94 (354)	6.75 (171)	10.09 (256)	66 (30)	N/A	Braided Rope

ELECTRICAL SPECIFICATIONS

Voltage		Energy (kWh)				
121/	10-Hr	20-Hr	48-Hr	72-Hr	100-Hr	100-Hr
12V	122	132	135	140	145	1.74

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)					
System Voltage	12V 24V		48V		
Maximum Charge Current (% of C ₂₀ Rate)*	13%				
Maximum Absorption Phase Time (hours)	4				
Absorption Voltage **	14.70	29.40	58.80		
Float Voltage	13.50	27.00	54.00		
Equalization Voltage	16.20	32.40	64.80		

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.













^{*}If charging time is limited contact Trojan Technical Support for assistance.

^{**}In cases where controller has a bulk voltage setting, use absorption voltage setting above.

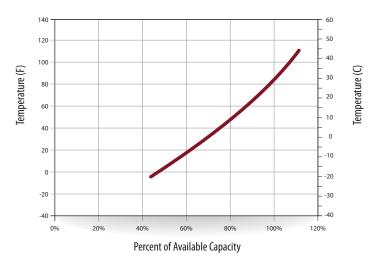
CHARGING TEMPERATURE COMPENSATION

Add		Subtract
0.005 volt per cell for	every 1°C below 25°C	0.005 volt per cell for every 1°C above 25°C
0.0028 volt per cell fo	r every 1°F below 77°F	0.0028 volt per cell for every 1°F above 77°F

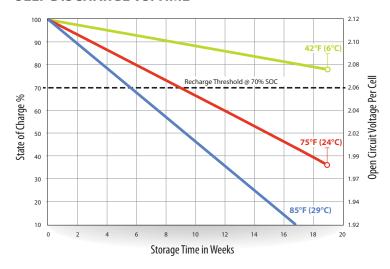
OPERATIONAL DATA

Operat	ing Temperature	Self Discharge	
tempe	o 113°F (-20°C to +45°C). At eratures below 32°F (0°C) maintain a of charge greater than 60%.	5 – 15% per month depending on storage temperature conditions.	

PERCENT CAPACITY VS. TEMPERATURE



SELF DISCHARGE VS. TIME*



*PERIODIC CHARGE

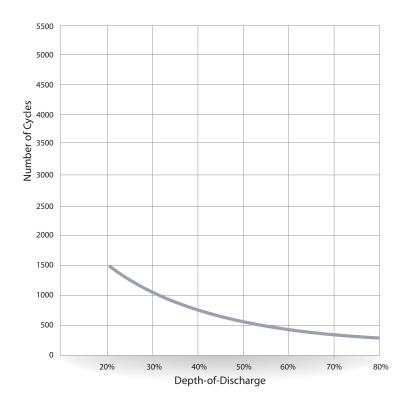
FREQUENCY

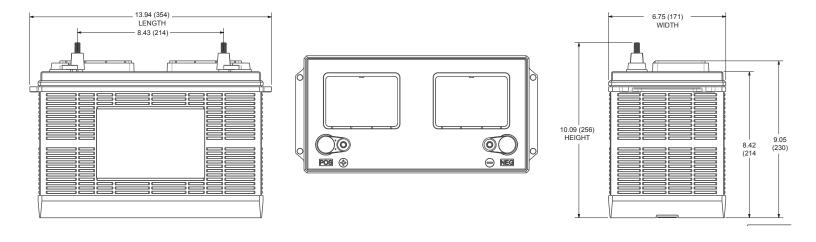
Provide a periodic freshening charge to maintain a SOC greater than the threshold of 70%.

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Specific Gravity	Cell	12-Volt
100	1.277	2.122	12.73
90	1.258	2.103	12.62
80	1.238	2.083	12.50
70	1.217	2.062	12.37
60	1.195	2.040	12.24
50	1.172	2.017	12.10
40	1.148	1.993	11.96
30	1.124	1.969	11.81
20	1.098	1.943	11.66
10	1.073	1.918	11.51

DOD VS CYCLE LIFE IN A STATIONARY APPLICATION





TERMINAL CONFIGURATIONS

9	WNT	Wingnut Terminal
		Terminal Height Inches (mm) 1.50 (38)
		Torque Values in-lb (Nm) 95 – 105 (11 – 12)
		Bolt 5/16" - 18

EXPECTED LIFE VS. TEMPERATURE

Chemical reactions internal to the battery are driven by voltage and temperature. The higher the battery temperature, the faster chemical reactions will occur. While higher temperatures can provide improved discharge performance the increased rate of chemical reactions will result in a corresponding loss of battery life. As a rule of thumb, for every 10°C increase in temperature the reaction rate doubles. Thus, a month of operation at 35°C is equivalent in battery life to two months at 25°C. Heat is an enemy of all lead acid batteries, FLA, AGM and gel alike and even small increases in temperature will have a major influence on battery life.





A. The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 86°F (30°C) and maintain a voltage above

B. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.

C. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.