

DATA SHEET

S-305

MODEL	S-305 with Bayonet Cap
VOLTAGE	6V
MATERIAL	Polypropylene
DIMENSIONS	Inches (mm)
BATTERY	Deep-Cycle Flooded/Wet Lead-Acid Battery
COLOR	Black
WATERING	HydroLink [™] Watering System

Not available in the USA, Canada, Dominican Republic or Haiti

Silver Line

PRODUCT + PHYSICAL SPECIFICATIONS

Model	Terminal Type ^E	Dimensions ^c Inches (mm)			Weight Lbs. ^F (kg)	Handles	Installation Orientation
		Length	Width	Height ^D			
S-305	4	12.35 (314)	6.85 (174)	14.41 (366)	83 (38)	Braided Rope	Upright

ELECTRICAL SPECIFICATIONS

Voltage	Capacity	^A Minutes	Capacity ⁸ Amp-Hours (Ah)			Energy (kWh)	Internal Resistance (m Ω)	Short Circuit Current (amps)	
01	@ 25 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr	100-Hr	20-Hr		
6V	624	155	242	271	295	328	1.77		_

CHARGING INSTRUCTIONS

Charger Voltage Settings (at 77°F/25°C)						
System Voltage	6V 12V 24V					
Maximum Charge Current (% of C ₂₀ Rate)*	13%					
Maximum Absorption Phase Time (hours)	4					
Absorption Voltage **	7.35	14.70	29.40	58.80		
Float Voltage	6.75	13.50	27.00	54.00		
Equalization Voltage	8.10	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 for every 1°F below 77°F	0.0028 volt per cell for every 1°F above 77°F

OPERATIONAL DATA

Operating Temperature	Self Discharge		
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	5 – 15% per month depending on storage temperature conditions.		

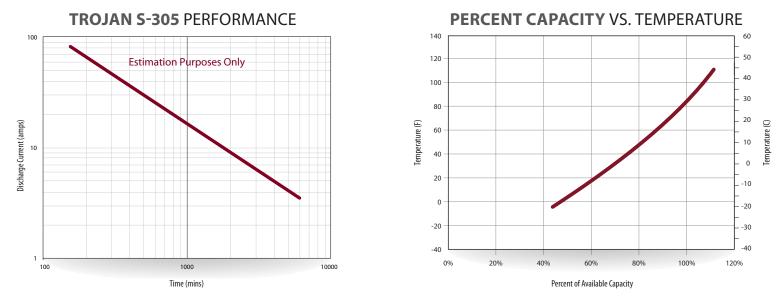
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

Percentage Charge	Specific Gravity	Cell	6 Volt
100	1.277	2.122	6.37
90	1.258	2.103	6.31
80	1.238	2.083	6.25
70	1.217	2.062	6.19
60	1.195	2.040	6.12
50	1.172	2.017	6.05
40	1.148	1.993	5.98
30	1.124	1.969	5.91
20	1.098	1.943	5.83
10	1.073	1.918	5.75

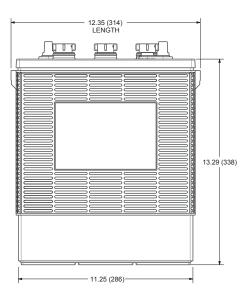


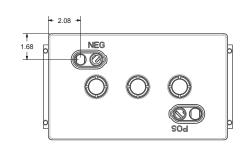


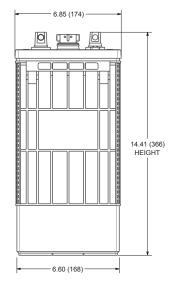




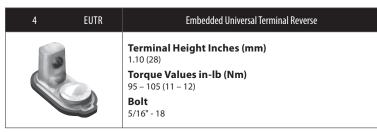








TERMINAL CONFIGURATION



The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance. The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage A

- В above 1.75 V/cell. Capacities are based on peak performance.
- C. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm)
- spacing minimum. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal. D. E. F. Terminal images are representative only

Weight may vary.

