TERRA SUPREME BATTERY
GROUP 31 SPEC SHEET



- TSB Group 31 batteries deliver industry-leading power and energy per pound and cycle life.
- Unique bipolar, composite grid delivers millions of PSOC cycles—perfect for stop-start service.
- Advanced materials and cell construction eliminate conventional lead-acid battery failure modes.
- Meets or exceeds most Consortium for Battery Innovation 2025 goals.

TERRA® SUPREME BATTERY

Energy Storage Technologies for the Next Millennium

terrasupremebattery.com

Specifications

Nominal Voltage	12 V
Nominal Capacity	105 Ah

Nominal Dimensions

Length	13.27” (337.058 mm)
Height Overall	10” (254 mm)
Width	7.13” (181.102 mm)
Weight	68 lbs. (30.9 kg)

Terminal

Dual Terminals	
SAE and 3/8 x 16 Positive; 5/16 x 16 Negative	
Specific Energy C_{20}	41 (Wh/kg)

Internal Impedance

@100% SoC	1.3 m Ω
Maximum Short Circuit Current	>5500 A

Cycle Life

60% DOD	4000
PSOC, 5% Capacity @ 50% SoC	>10,000,000

Cranking Power (30 Seconds)

0° F (-18° C) CCA	1250 A
32° F (0° C) MCA	1700 A
80° F (27° C) PHCA	>3000 A

Reserve Capacity

BCI: 25 A @ 80° F (27° C)	220 min

Temperature Limits

Storage	-40° F to 140° F (-40° C to 60° C)
Operating	-40° F to 140° F (-40° C to 60° C)

Recommended Charge

Algorithm	CI, CV to I ≤ 1 A
Voltage Clamp @ 77° F (25°)[1]	14.4 -14.8 V
Float Voltage @ 77° F (25° C)[1]	13.4 -13.8 V
Recommended Min In-Rush	25 A
Recommended Max In-Rush	Unlimited A
Storage Recharge Voltage	OCV = 12.0 V
Temperature Compensation	+/- 0.018 V/°C from 25° C

[1]Temperature compensated.
Specifications subject to change without notice.