

Group 31 Batteries For: **SOLAR & WIND**



Commercial Wind & Solar Energy Storage

Terra Supreme's Group 31 batteries are used for renewable energy storage in solar and wind power systems. These batteries are a durable, modular, and cost-effective solution for both commercial and residential off-grid setups, including solar backup/ hybrid systems, remote installations, and rural applications. The design supports scalable battery banks (e.g., 12 V, 24 V, 48 V) and integrates with typical renewable power electronics like MPPT solar charge controllers, wind turbine regulators, and hybrid inverters.



- ✓ 5000 cycles @ 50% DoD
- ✓ -40°C to 60°C operating range
- ✓ 5-Year New-for-Old warranty
- ✓ Built-in Bluetooth® Terra eBM™

Performance Specifications

Reserve Capacity:	240 minutes
Amp Hours:	105Ah
kWh Capacity:	$105\text{Ah} \times 12\text{V} = 1260\text{Wh} = 1.26\text{kWh}$

Product specifications are subject to change without notice.

Cranking Power

CCA:	1200
MCA:	1800
PHCA:	3000

Reduced Downtime and Improved Reliability

Terra Supreme Group 31 batteries offer reliable power delivery that helps prevent no-start conditions and equipment shutdowns, reducing costly downtime and keeping projects on schedule. Designed for rugged use, Terra Supreme Group 31 batteries are built to withstand:

- **Constant vibration and shock**
- **Extreme temperatures**
- **Dust, moisture, and exposure to chemicals**

This makes them ideal for both entry-level and advanced commercial solar and wind power systems.

Reliable Off-Grid Power Backup

Terra Supreme Group 31 batteries offer a practical, modular, and cost-efficient storage solution for commercial wind and solar deployments. Their standardized size, reliable cycling performance, surge capability, and ease of maintenance make them especially attractive for auxiliary power, backup energy, and control system support in renewable energy infrastructure.

- 12V, 24V, 48V, and higher-voltage banks
- Modular expansion as system capacity grows
- Redundant battery architectures for mission-critical uptime



A NEW Standard for G31 Batteries!

Terra Supreme Group 31 batteries deliver class-leading cranking power for engine starting and deep-cycle use, outperforming AGM and lithium in CCA, MCA, and PHCA. With 240 minutes of reserve capacity and up to 4,000 cycles at 60% depth of discharge, **they exceed lead-acid lifespan while matching lithium durability.** Designed as a true drop-in replacement, they require no charging system changes, support series or parallel setups, and feature a unique internal design with horizontal plates, no busbars, and built-in Bluetooth monitoring for real-time data.





10% Less Lead

Our bi-polar design uses 10% less lead than conventional batteries, reducing environmental impact and material costs.



98% Recyclable

All Terra batteries are fully recyclable through established lead-acid battery recycling networks.



Clean Manufacturing

Our Manufacturing 4.0 facility incorporates sustainable processes and minimal waste generation.

Environmental Regulations

- ✓ EPA compliance for manufacturing
- ✓ RCRA hazardous waste management
- ✓ Clean Air Act adherence
- ✓ State environmental permits

Battery Standards

- ✓ BCI (Battery Council International)
- ✓ UL safety certifications
- ✓ DOT shipping regulations
- ✓ International standards (IEC)



Ask For Terra Supreme Batteries!

Terra Supreme Battery serves commercial, industrial, and government customers with volume pricing and custom solutions. Our procurement process is designed for efficiency and transparency. Visit our website or call us directly at **1-260-636-6618** for sales or distribution information.

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| ✓ Volume Pricing | ✓ OEM Partnerships | ✓ Higher Power and Efficiency |
| ✓ Quantity discounts available | ✓ Private label options | ✓ Deeper Discharge |
| ✓ Fleet and bulk orders welcome | ✓ Custom specifications | ✓ Less Weight |
| ✓ Custom packaging options | ✓ Engineering support | ✓ More Usable Capacity |
| ✓ Scheduled delivery program | ✓ Quality agreements | ✓ Better Cost vs. Performance |