



SURFACE VEHICLE STANDARD

J930™

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Superseding J930 MAY2016

Storage Batteries for Off-Road Self-Propelled Work Machines

RATIONALE

Several members of the Starter Battery Committee have met to review the current status of SAE J930. We do not envision any changes to the standard, as it has been unmodified for a significant period of time. Therefore, the recommendation is being made to the full Starter Battery Committee to stabilize this document.

STABILIZED NOTICE

This document has been declared "STABILIZED" by SAE Starter Battery Standards Committee and will no longer be subjected to periodic reviews for currency. Users are responsible for verifying references and continued suitability of technical requirements. Newer technology may exist.

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Full document details: SAE J930_202206

For more information on this standard, visit
https://www.sae.org/standards/content/J930_202206/

Documents

Document Sharing Hub

1. SCOPE

This SAE Standard applies to all types of heavy-duty storage batteries for use on off-road machines as described in SAE J1116. Included are definitions of industry terms, test procedures, general requirements, application recommendations, standard sizes, overall dimensions, and electrical values.

1.1 Lead Acid Storage Battery Types

Battery types covered by this document include, but are not limited to, the following:

1.1.1 Low Maintenance

Flooded Battery types which require periodic watering during use. These battery types shall have a method of accessing the electrolyte.

1.1.2 Maintenance Free

Flooded Battery types which do not require periodic watering during use. These battery types may or may not have access to the electrolyte.

1.1.3 Valve Regulated (VRLA)

Battery types which contain absorbed (AGM) or gelled (Gel) electrolyte. These batteries do not permit access to electrolyte and are maintenance free.

1.2 Battery Performance Ratings

Performance ratings shall be at a 90% compliance level as described in SAE J537.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J180	Electrical Charging Systems for Construction and Industrial Machinery
SAE J537	Storage Batteries
SAE J538	Grounding of Storage Batteries
SAE J821	Electrical Wiring System for Construction, Agricultural and Off-Road Machines
SAE J1116	Categories of Off-Road Self-Propelled Work Machines
SAE J1127	Battery Cable
SAE J1310	Electric Engine Preheaters and Battery Warmers for Diesel Engines
SAE J1495	Test Procedure for Battery Flame Retardant Venting Systems
SAE J1811	Power Cable Terminals
SAE J2185	Life Test for Heavy-Duty Storage Batteries
SAE J2981	Starter Battery Identification and Classification
SAE J3060	Automotive and Heavy Duty Storage Battery Vibration

2.1.2 Battery Council International Publications

Available from Battery Council International, 401 N. Michigan Ave., Chicago, Illinois, 60611.

Battery Technical Manual

3. DEFINITIONS

3.1 CCA

Cold Cranking Amperes at -18°C (0°F) as defined in 7.3.3.

3.2 ORM

Off-Road Work Machine or Equipment as defined in SAE J1116.

3.3 RC

Reserve Capacity in minutes at 25°C (77°F) as defined in 7.3.2.