

450 - 1900 Ah
1.358 - 4.686 KW/Cell

DOUGLAS SAFEGUARD® PREMIUM

Douglas Safeguard® Premium Offers The Ultimate in modular standby power systems. The Safeguard® Premium series of valve-regulated, lead-acid batteries is housed in steel racks that can be stacked to 85" high that meet IBC 2000 seismic Zone 4 requirements. Safeguard® Premium batteries are installed horizontally and provide up to 60% more energy per unit volume than conventional batteries. Our 2-Volt cells provide you a capacity range from 450 to 1900 Ah, with a warranty life of 20 years under recommended operating conditions. Each jar and cover is constructed of flame-retardant UL94 V0 halogen-free PC/ABS plastic, with a LOI of 32%. The thick wall PC/ABS construction eliminates the need for compression, reducing total weight and providing greater installation flexibility.



DESIGN FEATURES:

- **Post Seal.** Triple barrier seal eliminates acid leaks and post movement.
- **Terminal Post.** Large cross section, heavy-duty post with tin plated copper insert allows for very high discharge currents.
- **Plates.** Wider, construction for both positive and negative pasted plates, with special lead/calcium/tin/silver alloy. Resists corrosion to enhance life of product.
- **Separators.** High-quality microporous glass fibers facilitate gas diffusion, optimize acid absorption and have lower electrical resistance. Low internal resistance, high-energy density, separator maintains compression throughout life, giving excellent vibration resistance.
- **Electrolyte.** High-purity sulfuric acid absorbed in separator has 1.280 SG. (1.300 SG for 1900 Ah). No acid spill, easy to handle and install, supplied filled and charged, no acid handling. No watering or hydrometer reading which cuts maintenance expense.
- **Float Voltage.** Douglas Safeguard® batteries provide optimum performance when float charged at 2.23 (2.25 for 1900 Ah) \pm 1% VPC for temperatures at 77°F (25°C).
- **Safety Valve.** Every cell has its own one-way valve which operates between 1.45 – 2.20 PSI for safety in the event of abusive operating conditions. Valve-regulated operation, with controllable internal pressure for safety and reliability and very low maintenance in service.
- **Flame Arrestor.** Built-in above every safety valve. Maximum safety in the event of abusive discharge.
- **Container and Cover.** Made of thick wall PC/ABS with high mechanical strength and impact resistance. Non-toxic, non-halogenated flame retardant to UL94 V0, LOI 32%. Non-clamped installation allows air circulation for environmental control and optimum service life. In the event of fire, non-toxic materials offer personnel safety.
- **Inter-cell Connectors and Top Termination.** Heavy-duty tin-plated copper connectors minimize voltage drop in battery circuits. Connections do not require torque maintenance or grease (NO-OX).
- **Storage.** The shelf life of Douglas Safeguard® batteries is affected by temperature. The lower the storage temperature, the longer the shelf life. At 77°F (25°C) batteries lose about 3% capacity per month.

DOUGLAS® SAFEGUARD®
P R E M I U M


DOUGLAS BATTERY
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