

CAPABILITY STATEMENT



FAIL-SAFE ENGINE STARTING FOR NAVAL & SMALL-CRAFT PLATFORMS

Developed with Penn State Applied Research Lab (Navy UARC)

Battery-independent starting via proprietary supercapacitor technology for harsh shipboard conditions.

CAGE: 53203 | UEI: L29FUWLXSPM3 | ISO 9001:2015



BoatStartPlus™

the fail-safe “add-on” for mission-critical ignition—delivering 1,000,000 cycles of reliable starting power, regardless of primary battery state.

PROVEN PERFORMANCE

- **NSW Evaluation:** Under operational evaluation by NSWCCD Det Norfolk, Code 8322, Combatant Craft Division
- **DoD Track Record:** Supporting DLA and Dept. of the Army tactical engine starting since 1984
- **Fielded Architecture:** Army NSN 6130-01-714-2899; adapted into BoatStartPlus™ chemical-free marine variant
- **Fleet Operational:** 1M+ cycle validated across NYC Transit (4,800 buses) and commercial maritime tugboat fleets (BoatUS® and Sea Tow)

MISSION CAPABILITIES



• **Mission Redundancy:** Battery-independent ignition ensures starting even if primary banks fail



• **Fail-Safe Readiness:** ~30-second recharge enables continuous operational availability



• **Logistical Independence:** Eliminates specialized maintenance cycles and charging infrastructure



• **Space & Weight:** Replaces battery banks with compact 10-lb module, reducing topside load

TECHNICAL ADVANTAGES

- **Chemical-Free Power:** High-current starts without hazardous lead-acid chemistry
- **Operational Reliability:** 15–20 year service life (~1M cycles) minimizes long-term logistical footprint
- **Extreme Survivability:** Operating: -40°F to 149°F (-40°C to 65°C) | Storage: -76°F to 158°F (-70°C to 70°C)
- **Maritime-Ruggedized:** Sealed enclosure; IP67 components; shipboard vibration/salt-spray (no system rating)

CONTACT INFORMATION



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Primary NAIC: 333618 (Other Engine Equipment

Mfg.) Secondary: 334416 (Capacitor Manufacturing); 335999 (All Other Misc. Electrical Equipment & Component Mfg.)

Primary PSC: 2920 (Engine Electrical System Components, Non-Aircraft) Secondary PSC:

5910 (Capacitors); 2895 (Miscellaneous Engines and Components)