idleX

IDLEX SILENT WATCH

IDLE ELIMINATION SYSTEM

IDLEX **SILENT WATCH**

IdleX Silent Watch turns military vehicles into self-contained power hubs that operate electronic warfare equipment, communications, sensors, and drone recharging. Paligen Technologies integrates IdleX's proven commercial trucking platform to reduce a running engine's burned fuel and acoustic and thermal signatures.







PALIGEN™ TECHNOLOGIES

IdleX
Silent Watch

IDLEX SILENT WATCH

CAPABILITIES

What The System Delivers

- Engine-off power for mission electronics: EW, comms, sensors, C2
- Recharges UAVs and battery-powered mission gear in the field
- Retrofits platforms already in service — no fleet-wide redesign
- Runs off the vehicle's own alternator — no auxiliary generator, no shore power
- No combustion and no rotating machinery — nothing running to hear or see
- Built from COTS components already proven in heavy-duty trucking

What IdleX Engineering Provides

- Mission load characterization — the platform's actual demand, not a catalog part
- Physics-based simulation across the full climate range before anything is built
- Mechanical adaptation - fits the product into the platform's space
- Cell and chemistry selection qualified against the mission profile
- System integration, acceptance testing, and field telemetry

DEFENSE PLATFORM INTEGRATION

McCormick Stevenson, a subsidiary of Paligen Technologies, brings decades of engineering experience to integrating IdleX eAPU systems into the military's most common vehicle platforms. IdleX's proven heavy-duty trucking technology provides a mission-ready power system faster than a program built from scratch at lower technical risk.

PROVEN, RELIABLE TECHNOLOGY

IdleX's eAPU applies well-established battery technology and intelligent charging to deliver predictable, engine-off run time in the field. The system's benefits demonstrated in the commercial trucking industry allow defense vehicles to quickly incorporate this successful, proven concept.



ARCHITECTURE

CONFIGURED PER PLATFORM

Energy Storage	2.7 kWh to 100 kWh
Bus	48 V native, split inputs from 12 or 28v
Chemistry	LiFePO4, semi-solid-state, solid-state, sodium
Power Conversion	120 V, 240 V split phase, 480 V 3 phase; 3 to 52 kW, units paralleled to the load
Charge Management	Stock alternator through dual-alternator 48 V; 1.5 kW to 20 kW at high idle
Cranking	Cranking parallel capacity in 2000 CCA increments
Climate	48 V native modules up to 15k BTU
Environment	-20° F to 140° F
Compliance	Designed to UL 1973 and UN 38.3

Every installation is engineered to the platform. Capacity, run time, and packaging are outputs of the mission load, not fixed specifications.

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PALIGEN™ TECHNOLOGIES

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