

"Operators & Engineers.... Ingenuity & Solutions... Anywhere, Anytime"

NextGen Hybrid Power, On-The-Move (OTM) Command & Control (C2)

The AES2 NextGen Hybrid Power OTM C2 Platform is an innovative concept that provides the soldier the ability to conduct C2 of Fires weapons systems while on the move. With a newly designed and proven hybrid power plant that combines battery and engine produced power, the user is able to conduct missions longer, quieter, and with a decreased logistical burden and reduced signature to enemy sensors.

The AES2 NextGen Hybrid Power OTM C2 combines unique features that support today's fast paced mission profiles. Using a combination of state-of-the-art military and commercial off-the-shelf components, it is designed to support full C2 operations and tasks during agile operations. Safety features allow the operator to conduct tasks even while operating in rugged tactical environments.

An innovative combination of battery and engine produced power enhances the operator's ability to focus on and conduct operations and mission tasks by reducing the logistical burden while enhancing survivability by reducing thermal and noise signatures.

Key system features:

- > Operation while on the move in tactical environments
- > Two workstations with 32" displays
- > Increased operator safety
- > Hybrid battery / engine power plant
 - 10kW Generator
 - 25kWh Energy Storage
 - 5kW Inverter
- > Reduced thermal / noise signature
- > Reduced fuel / logistics requirement



- Certified Small Business
- CMMC and NIST 800-171a Certified
- ISO 9001-2015 Registered
- TS/SCI FSP Cleared on DoD Contracts
- D&B: 116840061 / Cage Code: 87AV5

Feature	Benefits
Hybrid Power	Provides quiet operation, up to two (2) full days with a typical C2 radio/comms & HVAC setup; significantly reduced heat/noise/exhaust/vibration signatures, almost none when operating on batteries.
CBRN Filtration	Provides positive pressure environment w/ CBRN filters inside shelter to protect C2 Crew
EMI Protection	Shields internally and Reduces external electronic signature of C2 platform while operational
Dual Stage A/C	Provides efficient cooling for power savings and longer quiet operation, while on the move.
On-The-Move (Mobility)	Seating with 5-point Harness for two (2), ability to operate on battery and / or generator power while vehicle is maneuvering. Minimized foot-print for higher mobility over traditional command platforms.
Space Optimization	Space available for four (4) personnel inside shelter during static ops. Future equipment allocation. Additional space provided for maps coordination's and other CONOPS planning.
Scalable	Removable transit case racking, for radios/etc for quick modular reconfiguration into multiple vehicle platforms, meeting standardization requirements for QRC type missions.
Custom Signal Entry Panels	Provide custom ingress / egress of a variety of signals to the exterior of the shelter for base operations. This can include passthrough for video signals for exterior monitors for briefings or other needs
Foldable Workstation	Added space for long transport; work surface doubles as a white board while in the stowed position.
Multiple Intercom Solutions	Able to integrate a variety of OEM intercom solutions for communication between C2 crew and vehicle operators; Provisions available to interconnect Command Post Tents/TOCs if desired
Blackout Lighting	Reduces light signature when operating with doors open or when crew ingress / egress from the shelter.
Signature Reduction (Survivability)	Visual – overhead physical signature reducing sharp corners/edges & adding ground-like effect/shadowing; reduced antenna profiles; smaller footprint; Heat/Noise/Exhaust/Vibration - signatures minimal in battery-op mode

AES2 Hybrid Power Plant

