

# Kinetics LSS-APU

Integrated Life Support Systems and Auxiliary Power Units  
An Essential Component of the Modern Fighting Vehicle



Life Support System integrated with Auxiliary Power Unit (LSS-APU) has become an essential component of modern Armored Fighting Vehicles (AFV) such as Command Posts, Reconnaissance and Medical Evacuation Vehicles. The Kinetics LSS-APU enables effective operation of the AFV and its systems not only during regular operation, but in Silent-Mode operation as well, when the main engine of the vehicle is shut down. In Silent-Mode the system enables full performance of the NBC/CBRN Protection and the Heating Ventilation & Air-Conditioning (HVAC) and simultaneously provides power to onboard equipment.

The Kinetics LSS-APU is a cost-effective solution that reduces Life Cycle Costs and Logistics by significantly reducing Main Engine Hours. The system is designed for operation in heavy dust conditions. This military-qualified system is in production and fielded worldwide.

**Elbit Systems**

*Kinetics*

# Kinetics LSS-APU

## Integrated Life Support Systems and Auxiliary Power Units An Essential Component of the Modern Fighting Vehicle

The Kinetics LSS-APU can simultaneously provide:

### Auxiliary Power for:

- LSS Operation
- On-Board Electronic Equipment

### NBC Protection

- Overpressure
- Collective Facemasks
- Hybrid

### Environmental Control

- HVAC – Heating Ventilation and Air-Conditioning
- ICECS – Individual Crew and Equipment Cooling
- Dehumidification and Defogging

The Kinetics LSS-APU can be operated when the AFV is stationary or in motion, and when the vehicle's main engine is in operation or shut down. The APU functions as a Co-Generation System when activated in parallel with the AFV's main engine. The Co-Generation mode provides supplementary electric power to the vehicle, beyond that produced by the main engine's alternator. An advanced control system monitors the electric power consumption to assure that the power added by the APU does not interfere with the electric stability of the vehicle.



#### Elbit Systems Kinetics.

5 Ha'golan St. Airport City, P.O.Box 50, Ben-Gurion Airport, 79100 Israel  
E-mail: [kinetics@elbitsystems.com](mailto:kinetics@elbitsystems.com) [www.elbitsystems.com](http://www.elbitsystems.com)

Follow us on  