



UNMANNED LIGHTWEIGHT POWER GENERATION PLATFORM



*Unmanned Remote Utility Vehicle
Lightweight Power Generation Platform*

APPLICATIONS

An effective sensor host Transport for sensors, supplies, or ammunition. The system is an efficient, hybrid-electric, ruggedized, tele-operated, all-terrain vehicle provides up to 10 kW of clean electric power for a wide range of mission payloads. This unmanned utility vehicle has over a 100-mile range, with all-wheel drive to support sensor or utility missions in a low-cost package that is simple to operate. The robotic controls are compliant with the JAUS standard, making it easy to modify and maintain. Options include GPS waypoint navigation with semi-autonomous control software that leverages technology developed for the DARPA challenge.

- Missions best served by affordable UGV
- Supply route C-IED pathfinder and scout
- Remote patrol road, perimeter, or border monitoring
- Passive or active sensor host platform
 - Day/night vision
 - Tactical radar
 - Ground penetrating radar
 - Counter-sniper
- Logistics support
- Small UGV marsupial

DESCRIPTION

The Unmanned Lightweight Power Generation Platform (LPGP) is a low cost, light-weight, hybrid-electric unmanned ground vehicle (UGV) work-horse that can host a wide variety of payloads to meet various military, law enforcement, or homeland security missions. Hybrid-electric operation provides 5 to 10 kW available electrical power for propulsion, payload power, or both. CME's™ large battery packs provide extended periods of "stealth mode" (silent operation). Platform provides day/night surveillance, radar, communications links, IED detection, ordinance detection and disposal, re-supply, perimeter patrol, almost anything imaginable, all without risk to personnel. On-board diesel power generation means it doesn't have to be towed back once the batteries are depleted. Just start the diesel engine and charge them.

KEY FEATURES

- 350 to 500 pound payload capacity and 100-mile vehicle range with 7 gallons diesel; a silent "stealth mode" operation covering up to 30 miles in two hours on-the-move
- Operates silently for weeks with a 20W day/night video camera payload. On-board diesel generator can auto-start to charge batteries when necessary, or auto-start may be disabled for tactical stealth operation
- Tele-operation – on board pan/tilt/zoom camera for remote operation over secure line. Remote operator console with laptop video display (1 mile remote control range line of sight with current configuration)
- Fast – up to 30 mph with digitally controlled, on-demand, all-wheel drive
- Power management controls
- Vehicle telemetry display reports voltages, fuel level, current, temperatures, status

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SPECIFICATIONS

WIDTH:	59 inches
LENGTH:	124 inches (bumper to bumper)
WEIGHT:	2789 pounds (with payload), approximate. 2595 pounds (without payload)
BATTERIES:	48 volt DC, 240 Amp-hour lead-acid battery pack or an optional 48 volt DC, 240 Amp-hour lithium-ion battery pack allows 350 lb greater payload for 500 lb of mission payload
TIME TO RECHARGE:	Up to six hours power generation at full load with standard fuel capacity
APPLICATION ENVIRONMENT:	Outdoor

Travel Configuration



Deployed Configuration

