

MILSPRAY®

Military Technologies

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SCORPION ENERGY HUNTER®

Renewable Energy System

PROUDLY MADE IN THE USA

Patented Technology 8,539,724



Generator Interface



The Scorpion's intelligent controller communicates with Cummins® AMMPS generator and legacy generators.



Fully compatible for operation with legacy TQG in either a single unit or in parallel with another unit of the same class.

Compact System Design



Smart power distribution system provides power and charge control and prevents overcharge/discharge.

Microgrid Operation



Microgrid configuration can be achieved to provide high energy storage capability.



ADS Warriors Expo Show - Virginia Beach, VA

Scorpion Energy Hunter® partnering with Cummins®, and LexTM3 to form a microgrid at the ADS Warriors Expo Show.

Deployable Operation



Ruggedized system that can be deployed under all weather conditions.

Remote Monitoring/ Control Capability



Remote monitoring, control, and logging. Manages power, input/output, and solar harvesting status.

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System Overview

The Scorpion Energy Hunter® is an integrated power management, energy storage, and energy harvesting system housed in a containerized, expeditionary, deployable format. It has the flexibility and can be customized to fit into many different power and energy roles per the desired application, achieving goals such as reducing generator run time, fuel consumption, generator maintenance cost, noise levels, collecting renewable energy, and taking fuel convoys off the road saving warfighter lives. The system is currently in production and supporting off-grid and on-grid applications worldwide for the United States Marines Corps, the United States Army, the Army Rapid Equipping Force (REF), and the United States Air Force. The system also has been extensively tested at Aberdeen Proving Ground.

Features & Benefits

- Automatically start and stop new Program Of Record Cummins® AMMPS generator intelligently
- Automatically start and stop legacy TQG intelligently
- Trickle charge generator battery to keep the generator online and reduce maintenance service
- Capability: Cummins® AMMPS generator; IPC; 2/3 wire auto start generators; TQG
- Complete turn-key system, deployable and expeditionary
- 20kW, 120/208VAC, 3-Phase system
- 5kW high efficiency monocrystalline solar panel
- 105kWh energy storage capability
- High Performance valve regulated lead acid (VRLA) gelled electrolyte (GEL) batteries
- Foot print: Two 5'x 8' Quadcons including one (1) Control Container and one (1) Energy Storage Container
- Sets up easily with simple hand tools in 90 minutes or less with two people
- Can supply power immediately via battery storage
- Adjustable solar array maximizes energy harvesting at any installation latitude location
- Shock isolated panel storage
- Remote monitoring & logging capability

Intended Uses

- Off-Grid Power Provider
- Dedicated Field Equipment Support
- Micro-grid integration
- Forward Operating Bases (FOB)
- Quiet/Stealth Operations
- Humanitarian Assistance
- Natural Disaster Relief
- Containerized Housing Units
- Field Hospitals

General Specifications

AC Output	Surge Rating (60 sec)	36,000 W
	Continuous	20,400 W
	Voltage	208 VAC 3 Phase Wye
	Output Voltage Regulation	±3%
	Typical Efficiency	95.7%
	Maximum Output Amp	102A
	Frequency	50/60Hz
Battery Bank	Bank Voltage (Nominal)	48V DC
	Bank Capacity @ 20 Hr Rate	2196 AH
	Capacity (watt-hrs)	105,408 Whr
Solar Array	Number of Panels	20
	Nominal Power Output	5000 Watts
System Weight and Dimensions	Container A (Control):	
	Dimensions	8' 0"L X 4' 7-7/8"W X 8' 0"H
	Weight approx.	6,300 lbs
	Container B (Energy Storage):	
Dimensions	8' 0"L X 4' 9-3/8"W X 8' 0"H	
Weight approx.	7,500 lbs	

Past Performance and Testing

- Rapid Equipping Force (REF) - Ft. Belvoir, VA
- Army Test & Evaluation Command (ATEC) - Aberdeen Proving Grounds (APG), MD
- Army Expeditionary Warrior Experiment (AEWE) - Ft. Benning, GA
- NATICK Base Camp Integration Lab (BCIL) - Ft. Devens, MA
- US Army Network Integration Evaluation (NIE) - Ft. Bliss, TX
- Combined Arms Support Command (CASCOM) - Ft. Eustus, VA
- Air Traffic Control (ATC) - Redstone Arsenal, AL
- USMC Experimental Forward Operating Base (EXFOB) - Twenty-Nine Palms, CA
- USMC, MARFORRES Exercise Javelin Thrust - Hawthorne, NV & Yuma, AZ
- USMC, MARCORSYSCOM - Quantico, VA
- USMC, Marine Expeditionary Force (MEF) - Miramar, CA & Twenty-Nine Palms, CA
- US AFRICOM Exercise Africa Lion - Dakar, Senegal
- Star Tides Technology Demonstration - Ft. McNair, DC
- West Point Military Academy - West Point, NY
- USAF CPAC Site - Yigo, Guam
- Contingency Basing Integration Technology Evaluation Center (CBITEC) - Fort Leonard Wood, MO
- US Army Engineer Research & Development Center (ERDC) - Champaign, IL