

# EMPAC-T™ 9kW Trailered Hybrid Power System



The ZeroBase® EMPAC™ 9kW Hybrid Power System (HPS) is a ruggedized military trailer system capable of providing clean, well-regulated power while increasing the efficiency of power generators, supplying backup power in the event of a loss of generator availability, and providing extended silent operations. The 9kW trailered HPS is designed to meet MIL-810 environmental and mechanical specifications to support use in extremely harsh environments across the globe.

## Applications

- Weapons and Observation systems
- Temporary shelters
- Expeditionary power needs
- Rapid deployment missions
- Mobile command centers
- Support for unreliable power grid

## System Features

## Benefits

Auto start/stop generator control	<ul style="list-style-type: none"><li>■ Easy to operate</li><li>■ Quick set-up</li><li>■ Extended silent operation</li><li>■ Generator fuel savings and runtime reduction</li></ul>
Power Surety	<ul style="list-style-type: none"><li>■ Dual functionality as a power system and uninterrupted power source</li></ul>
Single Phase 240V/60Hz output	<ul style="list-style-type: none"><li>■ clean, conditioned pure sine wave power that keeps electronics safe</li></ul>
Optional solar charging capability	<ul style="list-style-type: none"><li>■ Further reduces Genset runtime</li></ul>
Compliance with MIL-STD 810	<ul style="list-style-type: none"><li>■ Ruggedized design to meet harsh environmental and mechanical specs</li></ul>
LiFePO4 battery chemistry	<ul style="list-style-type: none"><li>■ Maintenance free with long service life</li></ul>
Scalable battery and power module equipment	<ul style="list-style-type: none"><li>■ Easily scalable to fit individual application requirements, power components offer N+1 redundancy</li></ul>
Easily accessible operating parameters via Human Machine Interface (HMI)	<ul style="list-style-type: none"><li>■ User friendly interface for system monitoring and control</li></ul>
Trailered Design	<ul style="list-style-type: none"><li>■ Easily relocatable, on or off highway use</li></ul>
Two 10kW AMMPS Gensets w/ Switchbox Control	<ul style="list-style-type: none"><li>■ Dual Genset design with redundancy ensure continuous power in event of fuel shortage or required maintenance</li></ul>



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## System Specifications

AC Output	230 VAC / 60 Hz
AC Output Power	9 kW
AC Output Power Quality	Less than 3% THD
Surge Capacity	14 kW for 15 seconds
AC Input	120 VAC / 240 VAC / 60 Hz @ 50 A
Shore Power Input	85-264VAC 50/60HZ
AC Output Isolation	10 kV
AC Output Interface	240V / 60Hz Single Phase Connector
Energy Storage (Nominal/Usable)	14.4 kWh / 13kWh
Solar	Available Option; 2.9kW charging capacity
Accepted Diesel Genset	Can accept multiple genset types based on customer requirements
Human Machine Interface	Industrial Panel PC with Interactive display and data logging capability

## Trailer Specifications (M1061A)

Weight (Trailer Integrated System – Dry; lb/kg)	9,470 / 4,296
Weight (Trailer Integrated System – Wet; lb/kg)	9,620 / 4,364
Tongue Weight (lb/kg)	630/286
Dimensions LWH (in/cm)	217 x 96 x 89 / 551 x 244 x 226
Hitch Configuration	Pintle Hitch
Accessories	Tie-downs, Heavy duty leaf spring suspension system
Trailer Stabilizers	Four (4) landing legs at each corner beneath trailer

## Environmental Specifications & Certifications

Enclosure NEMA Rating	NEMA 3R w/ integrated sealed HVAC system
Operating Temperature (°F/°C)	14 to 122/-10 to 50
Storage Temperature (°F/°C)	-40 to 158 / -40 to 70
Trailer Lighting	24 V Composite Lights

