

EMPAC-T™ 10kW Trailered Hybrid Power System



The ZeroBase® EMPAC-T™ 10kW 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 10kW trailered HPS is designed to meet MIL-STD 810G 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

Auto start/stop generator control

- Easy to operate
- Quick set-up
- Extended silent operation
- Generator fuel savings and runtime reduction

Power Surety

- Dual functionality as a power system and uninterrupted power source

Single Phase 240 V / 60 Hz output

- Clean, conditioned pure sine wave power that keeps electronics safe

Optional solar charging capability

- Further reduces Genset runtime

Compliance with MIL-STD 810G

- Ruggedized design to meet harsh environmental and mechanical specs

LiFePO4 battery chemistry

- Maintenance free with long service life

Scalable battery and power module equipment

- Easily scalable to fit individual application requirements, power components offer N+1 redundancy

Easily accessible operating parameters via Human Machine Interface (HMI)

- User friendly interface for system monitoring and control

Trailered Design

- Easily relocatable, on or off highway use
- System contains an interconnected 10kW AMMPS

Multiple Usable AC Input Sources

- Genset has capability to accept shore power input from 85-264 VAC @ 50/60 Hz

Benefits



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System Specifications

AC Output	240 VAC / 60 Hz
AC Output Power	10 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	85-264 VAC / 50-60 Hz
AC Output Isolation	10 kV
AC Output Interface	240V / 60Hz Single Phase Connector
Energy Storage (Nominal/Usable)	14.4 kWh / 13 kWh
Solar Charging	Up to 2.9 kW 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 (M200A1)

Weight (Trailer Integrated System – Dry; lb/kg)	5,641 / 2,559
Weight (Trailer Integrated System – Wet; lb/kg)	5,716 / 2,593
Tongue Weight (lb/kg)	986 / 447
Dimensions LWH (in/cm)	161.5 x 96 x 99
Hitch Configuration	Pintle Hitch
Accessories	Tie-downs, Heavy duty leaf spring suspension system
Trailer Stabilizers	Three (3) landing legs one in the front and two step jacks located at the left- and right-rear corners of the chassis and serve as stabilizers

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

