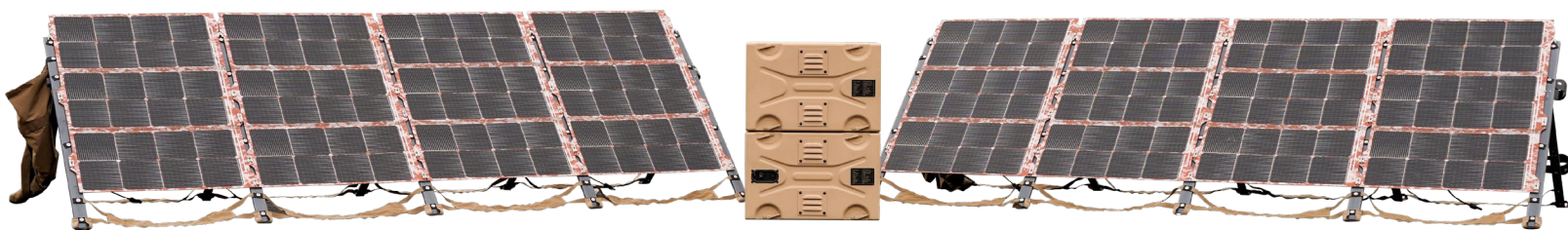


# EMPAC™ 3kW Hybrid Power System

EMP-0030-B2-SOL-02



The ZeroBase EMPAC 3kW Hybrid Power System (HPS) is a man portable, modular system capable of providing clean well-regulated power while increasing efficiency of power generators, supplying backup power in the event of a loss of generator availability, integrating solar energy production for reduced fuel consumption, and providing extended silent operations. The 3kW HPS is designed to meet all MIL-STD 810 environmental and mechanical specifications to allow for use in extremely harsh environments across the world, and the modular design makes upgrades and maintenance much simpler to complete.

## Applications

- Expeditionary power needs
- Rapid deployment missions
- Mobile command centers
- Support for unreliable power grid

## System Features

Auto start/stop generator control

Power Surety

Single Phase 120V/60Hz output

Optional solar charging capability

Compliance with MIL-810

LiFePO4 battery chemistry

## Benefits

- Easy to operate
- Quick set-up
- Extended silent operation
- Generator fuel savings and runtime
- Dual functionality as a power system and uninterrupted power source
- Silent, conditioned pure sine wave power that keeps electronics safe
- Extended battery life
- Ruggedized design to meet environmental and mechanical specs
- Man portable system is simple to relocate
- Maintenance free
- Easily scalable to fit application requirements

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## System Specifications

AC Output	120 VAC/60 Hz
AC Output Power	3 kW
AC Output Power Quality	+/- 2% THD
Surge Capacity	3500 VA for 200 ms
AC Input	85 VAC – 275 VAC; 50-60 Hz
AC Output Interface	One (1) 120 VAC / 50 Hz or 60 Hz Single Phase Connector
Energy Storage (Nominal/Usable)	4.8 kWh/4.3 kWh
Solar	Up to 2.9 kW charging capacity
Power Module Dimensions LWH (in/cm)	27 x 21 x 14 / 69 x 53 x 36
Battery Module Dimensions LWH (in/cm)	27 x 21 x 14 / 69 x 53 x 36
Power Module Weight (lb/kg)	70 / 32
Battery Module Weight (lb/kg)	120 / 54
Accepted Diesel Genset	3 kW TQG (MEP-831A)

## Environmental Specifications & Certifications

Enclosure NEMA Rating	NEMA 3R
Operating Temperature (°F/°C)	14 to 109 / -10 to 43
Storage Temperature (°F/°C)	-40 to 158 / -40 to 70



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