

EMPAC™ 5kW Hybrid Power System

EMP-0050-B4-SOL-02



The ZeroBase EMPAC 5kW Hybrid Power System (HPS) is a 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 5kW 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 perform.

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

Supplemental LiFePO4 energy storage modules available

Easily accessible operating parameters via Human Machine Interface (HMI)

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
- Maintenance free
- Easily scalable to fit application requirements
- User friendly screen for system monitoring and shut-down control

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System Specifications

AC Output	120 VAC/60 Hz
AC Output Power	5 kW
AC Output Power Quality	Less than 1% THD
Surge Capacity	9kW for 15s
AC Input	240 VAC / 120 VAC / 60 Hz
AC Output Interface	120 VAC / 60 Hz Single Phase or 240 VAC / 60 Hz Split Phase
Energy Storage (Nominal/Usable)	9.6kWh / 9kWh
Solar	Up to 2.9kW charging capacity
Dimensions LWH (in/cm)	44 x 29 x 54 / 112 x 74 x 132
Weight (lb/kg)	776 / 352
Accepted Diesel Genset	5kW AMMPS (w/ADCS; MEP-1030), 5kW TQG (w/ ZeroBase Energy RSK-00001-INS; MEP-802A)
Human Machine Interface	Industrial panel PC with interactive display and data logging capability

Environmental Specifications & Certifications

Enclosure NEMA Rating	NEMA 3R
Operating Temperature (°F/°C)	14 to 109/-10 to 43
Storage Temperature (°F/°C)	-4 to 140/-20 to 60



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