



The ZeroBase® EMPAC-T™ hybrid power system reduces dependency on unstable, costly generator power in applications where clean, quiet power is preferred. The EMPAC-T™ power management and energy storage system take control of the generator, relegating its role to recharging or providing supplemental power and significantly reducing fuel usage.

This rugged power system comes in scalable rack mounted configurations that can be deployed as a self-sustaining portable power unit in support of mobile missions. The EMPAC-T™ hybrid power system is built to provide continuous power in extreme environmental conditions while removing the need for generator use during scheduled Silent Operation hours.

Key Benefits

- Easy to operate with quick set-up
- Extended silent operation
- Generator fuel savings and runtime reduction
- Dual functionality as a power system and uninterrupted power source (UPS)
- Silent, conditioned pure sine wave power keeps electronics safe
- Low maintenance requirements
- Towable system is simple to relocate

System Features

- Scalable up to 30 kW of output AC power
- Scalable up to 57.6 kWh of energy storage
- Auto start/stop generator control
- 240V/120 V / 60 Hz output
- Large fuel tank integrated into trailer
- International option (230 V / 50 hz) available
- Wide environmental operating range
- Tier 4 compliant generator
- Easily accessible operating parameters via Human Machine Interface (HMI)

Applications

- Disaster and emergency response
- Temporary shelters
- Expeditionary power needs
- Rapid deployment missions
- Mobile command centers
- Support for unreliable power grid

System Specifications

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| AC Output | 240 VAC / 120 VAC / 60 Hz |
| AC Output Power | 20 kW |
| AC Output Power Quality | Less than 1% THD |
| Surge Capacity | 35 kW for 15 seconds |
| AC Output Isolation | 10 kV |
| AC Output Interface | 240 VAC / 120 VAC / 60 Hz Split Phase Cam Locks |
| Energy Storage (Nominal/Usable) | 57.6 kWh / 52 kWh |
| Solar | Not available in this configuration |
| Onboard Diesel Genset | 22 kW Prime Power Rated |
| Human Machine Interface | Industrial Panel PC with Interactive display and data logging capability |

Trailer Specifications

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| Weight (Trailer Integrated System-Dry) | 8,927 lbs (Estimated depending upon options) |
| Weight (Trailer Integrated System-Wet) | 10,377 lbs (Estimated depending upon options) |
| Tongue Weight | 1,780 lbs |
| Dimensions (in / cm) | 251 L x 78 W x 105 H / 638 L x 198 W x 267 H |
| Tongue Jack Capacity | 7,000 lbs |
| Hitch Configuration | 2 5/16" ball w/safety chains OR pintel-eye w/safety chains |
| Axle | Twin 6,000 lb Dexter Torflex |
| Brakes | Twin-axle electrical w/Automatic Breakaway System |
| Tires | ST235/80R16 LRE on 16" black wheels w/8" bolts |
| Wiring | Double-jacketed harness w/7-pole trailer connector |
| Lights | Meets federal DOT requirements |
| Accessories | Fire extinguisher, HPS to MHU output cabling, spare tire |
| Trailer Stabilizers | Two rear stabilizer jacks, one forward tongue jack |
| Fuel Tank Capacity | 200 Total Gallons / 168 Usable Gallons |

Environmental Specifications

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| Enclosure NEMA Rating | NEMA 3R with integrated sealed HVAC system |
| Operating Temperature (°C / °F) | -10 to 50 / 14 to 122 |
| Storage Temperature (°C / °F) | -20 to 60 / -4 to 140 |

Certifications

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|------------------------------|-------------------------|
| Trailer Lighting | DOT certified |
| Generator Tier Rating | Tier 4 compliant |
| Fuel Type | Ultra-low sulfur diesel |

