

NAT6 Hybrid Power System

Hybrid power system via mains, genset, photovoltaic panels, wind turbine, and accumulators for uninterrupted supply of critical electrical loads with highest energy reliability.

Key Features

- Transportable by any means, including air (not classified as dangerous goods)
- Interoperable: powered at 230 VAC 50 Hz, 400 VAC, 120 VAC 60 Hz
- Outputs: 230V 50Hz, 6 or 12 KVA and/or 48 VDC
- Absolute continuity, double conversion: load never directly connected to grid or generator
- Dynamic optimization and renewables reduce fuel usage
- Operates in high availability or maximum efficiency modes
- Reduced thermal signature

Structure

- #1 Power rack
- #1 Battery rack
- #1 Photovoltaic system with mounting structure
- #1 Cables and accessories

Electrical parameters

- Input: 90-264 VAC, 47/63 Hz, -30/+70°C, MTBF 3698.9K hours
- Max AC power: 3,900 W/unit
- Output: 230 VAC and 48 VDC, Power 6/12 KVA

Batteries

- Pure lead positive plates, advanced carbon negative plates
- AGM separator, UL94 V-0 containers
- Temperature range: -40°C to +50°C
- Storage life: up to 24 months at 20°C
- Non-spillable and non-hazardous (ADR/RID, IMDG, IATA)

PV Panels

- 420W each, up to 3.2 KW/string
- Larger setups: up to 32 KW or more

Mounting Structure

- Quick installation on flat surfaces, 10° tilt
- Materials: Versalis Koblend® P 477 E, anodized aluminum inserts
- Mounting time: 2 min/panel, full structure 15 min
- Bases: 4.5 kg, stackable