

GENERATORS

PG SERIES

Main features

Custom-Made Standby Generators

- Diesel, bio-diesel, natural gas or LPG
- Well-known and reliable Volvo and MTU engines
- Ratings up to 3000kW Prime standalone (up to 32 units in parallel)
- Single or Three phases output, with voltages up to 13800V
- EPA Tier 4 final
- DNV 2.7-1 & C5-M offshore coating
- Fire suppression system (SIL certified upon request)

Hybrid Diesel-PV-ESS Solutions

- NEMA 4X Enclosures

Mobile Generators

- Fully integrated units ready to be deployed
- Ratings up to 450kW
- Parallel/Load Share-Ready
- Variable pitch fan to auto adjust for cooling and heating needs
- 1500-hour service Interval option available
- Engine protection (knock sensing on each cylinder) for gaseous solutions



**Flexible power
generation for any place**

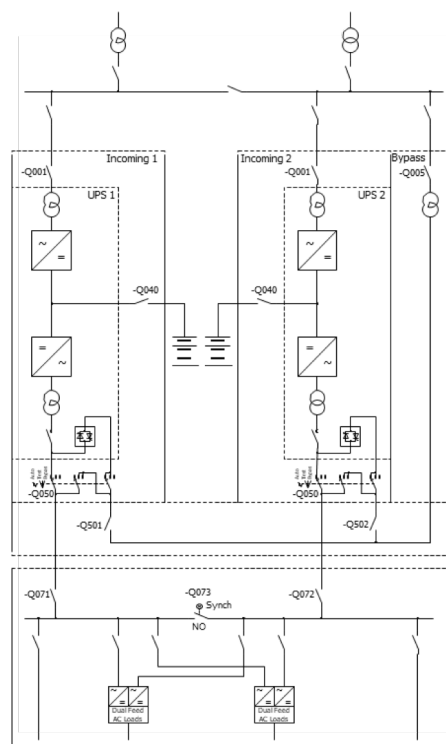
UNINTERRUPTIBLE POWER SYSTEMS (UPS)

PU-XSB SERIES

Applications

The PU-XSB UPS series meets the most stringent requirements and specifications in high-end industrial applications:

- Oil and Gas (Petrochemicals, Offshore, FPSO, Onshore, LNG plants, Pipelines etc.)
- Energy and Electricity (Power Generation, Transmission, Distribution)
- Water (Desalination, Treatment, Pipeline)
- Instrumentation and Process Control (Chemical, Mining, Steel, Pulp and Paper)
- All high-end industrial applications



Picture: Typical Oil and Gas configuration – Dual with individual batteries and monitored coupling switch.

Configurations

Depending on the load supply concept, different configurations are supported:

- Single configuration
- Parallel redundant configuration (up to 8 units, progressive start-up)
- Parallel redundant configuration with monitored couplingswitch
- Dual configuration also with external synchronization source
- Common or individual batteries

Reliability

UPS solutions have been protecting industrial installations for more than three decades:

- Well proven system platform
- Higher MTBF and low MTTR
- High quality rugged components
- 30 year design life.
- Complying to all relevant ISO and IEC/EN standards



UNINTERRUPTIBLE POWER SYSTEMS (UPS)

PU-XSB SERIES

Features

Continuous operation at room temperatures up to 40°C (55°C upon request)

Battery test with neither Load Bank Rental or Customer's Load shutdown required

Designed to withstand harsh environmental conditions (up to IP54).

Complying to the most stringent industrial classification (VFI-SS-111 in accordance with IEC/EN 62040-3)

Compatible with RS232/RS485, Profibus, TCP/IP interface

Market leading electrical features

- **IGBT rectifier with Power Factor Correction (PFC)**
- **Fault clearing and short circuit performance (i.e. 300% for 3 seconds on inverter)**
- **Unlimited load power factor (0.0 lag to 0.0 lead)**
- Compact design with input and output isolation transformers
- Segregated Incomer/Bypass panel housing all switching devices and electrical connection points



RECTIFIERS AND BATT CHARGERS

PC SERIES

E'kabel rectifier systems are the solutions for charging battery strings and feeding direct current (DC) critical loads. SCR (silicon controller rectifier) is suggested when traditional, rugged and durable technology is required. On the other hand, high-frequency systems are order winners when low mean time to recovery (MTTR), higher efficiencies and energy density are demanded.

Features

Design life up to 30 years

Rugged technology

Capacities starting at 15A up to

2000A Enclosures up to IP54

Output voltage from 12Vdc up to

240Vdc 12 programmable alarms /

indications

Compatible with Modbus RS232/RS485,
Modbus TCP/IP interface



BATTERIES

PB SERIES

Oil and Gas facilities demands state-of-art energy storage to backup their critical process. Therefore, Ekabel recommends its battery series built considering a robust design, high temperature tolerance, flame retardant, top quality and long lifespan features.



PB-NS series (Nickel-Cadmium series)

Nickel-cadmium (NiCd) series are engineered for applications under extreme conditions. They offer an outstanding long-life and operational reliability combined with high cycling capabilities at non climate-controlled conditions. These batteries will do the job where no other product could withstand the demands related with high temperature environments, low maintenance, deep discharge, frequent cycling or long lifespan.

Main features:

- Reliable at rooms with temperatures up to 45°C
- Capacities up to 1690Ah in a single cell
- High cycling capabilities (up to 7500 cycles)
- Flame arresting vent
- Lifespan 20 years plus

PB-ZSA series (OPzV)

These series is based on OPzV VRLA tubular single cells design, engineered with die cast tubular spines using a Calcium Tin Lead Alloy. In addition, it has a special performance enhancing catalyst technology and still complying with DIN standards. The gelled electrolyte prevents the need for topping up electrolyte, making the product ultra low maintenance suitable.

Main features:

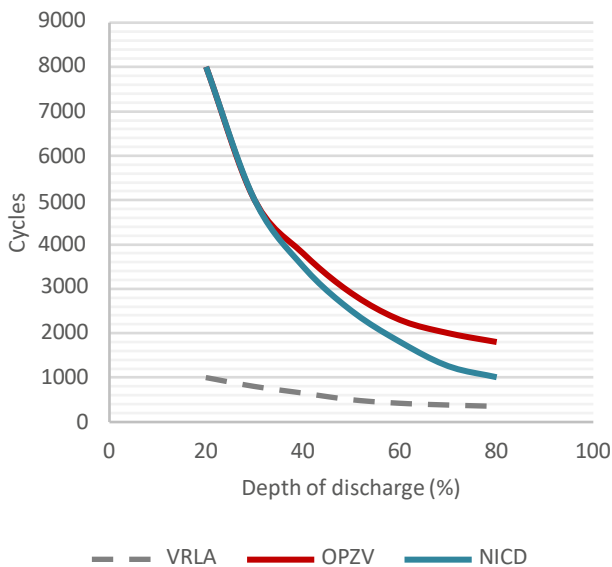
- Capacities up to 3000Ah in a single cell
- High cycling capabilities (up to 7500 cycles)
- Flame retardant container UL 94 V0
- Lifespan 20 years



BATTERIES

PB SERIES

Cycling comparison



Built to last

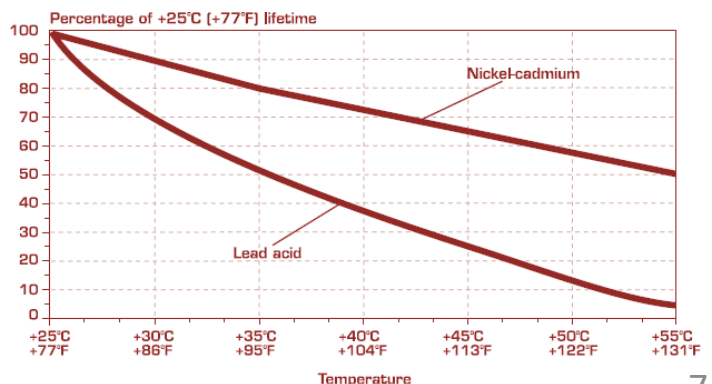
Cycling refers to the battery capability of charging and discharging several times during its service life.

Therefore, high cycling capacity is directly related with actual battery lifespan in service.

OPzV and NiCd based series performs up to 8x more times cycles than a conventional VRLA (Valve-Regulated Lead Acid) battery. For example, considering a depth of discharge of 20%, NiCd and OPzV battery series will deliver up to 8000 cycles compared to 1000 cycles by a VRLA.

High temperature conditions are not a problem

Ekabel's Nickel-cadmium (NiCd) based battery series are safe and reliable even inside high temperature non climate-controlled rooms. In this case, considering a temperature of 35°C, a lead acid battery would lose 50 percent of its design lifetime. Alternatively, a NiCd battery would lose only 20 percent of its design lifetime at the same room conditions.





ADD-ONS

E SERIES



Main features

Pumps

- Capable of handling water and solids
- 4, 6 and 8-inch designs
- Available in wet prime and high-performance Venturi and diaphragm dry prime models



Mobile light towers

- Power from 120V utility source, generator or another light tower
- Outlets to power commonly used jobsite tools
- Extendable outriggers designed to withstand 65 mph (105 kph) winds
- Instant-on LED floodlights
- Vertical telescopic mast with hydraulic lifting system
- Running time above 190 hours without fuel reposition





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