

Gutor PXC AC UPS

PXC 1000 10 – 80 kVA single phase

PXC 3000 10 – 80 kVA three phase



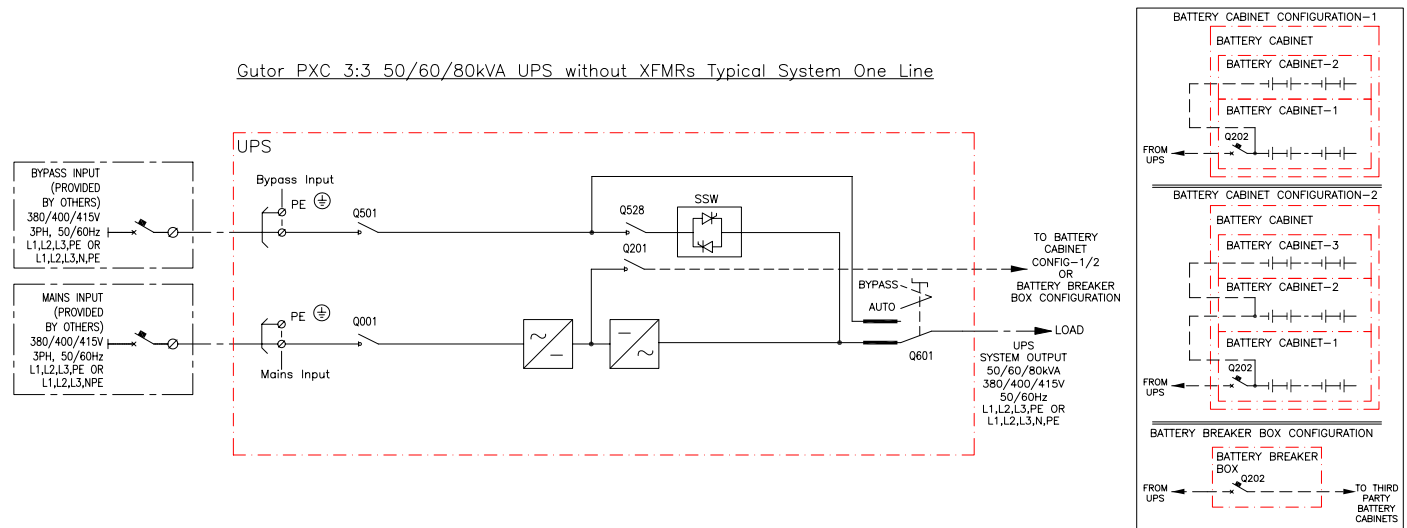
Gutor PXC technical data

UPS input	
Rectifier input voltage	3 x 380/400/415 V
Rectifier input voltage tolerance	-10/+15%
Rectifier input frequency	41 – 70 Hz (auto detection)
Rectifier current total harmonic distortion	<5% @ 100% load
Rectifier input power factor	typical 0.96 – 0.98
Inrush current	max. Inom for transformer free/i8 – 10IN with rectifier transformer
Bypass input voltage Gutor PXC 1000 Gutor PXC 3000	1 x 220/230/240 V +/-10% 3 x 380/400/415 V +/-10%
Bypass input frequency	50/60 Hz +/-8%
Battery circuit	
Battery voltage	400 VDC
Battery operating range	335 – 540 VDC
Float voltage at -10% line power	programmable within battery operating range
Boost voltage at nominal line power	programmable within battery operating range
Boost charge time	1 – 24 h programmable
Charging current limitation	programmable
UPS output	
Nominal UPS ratings at 0.8 lagging PF	10, 20, 30, 40, 50, 60, 80 kVA
Output voltage Gutor PXC 1000 Gutor PXC 3000	1 x 220/230/240 V 3 x 380/400/415 V
Voltage tolerance: static within 0 – 100% load dynamic for 0 – 100% or 100 – 0% regulation time to +/- 1% regulation time to +/- 3%	+/- 1% +/- 5% <60 ms <20 ms
Overload Inverter Bypass	230%/60 ms, 150%/1 min., 125%/10 min. 1,000%/100 ms, 150%/1 min., 125%/10 min.
Frequency	50/60 Hz
Frequency stability, free running	<0.01%
Synchronization range	0.5/1/2/4/6/8% programmable
Slew rate single phase systems	0.25/0.5/1 Hz/s programmable
Slew rate three phase systems	0.25/0.5/1/2/4/6 Hz/s programmable
Wave form	sinusoidal
Admissible output crest factor	unlimited
Distortion factor: Linear load Nonlinear load according to IEC 62040-3	<2% <5%
Allowable power factor	0.5 lag – 0.5 lead
General data	
Ambient temperature range for storage	from -30 to +80 °C
Ambient temperature range for operation	from -10 to +40 °C (100% nominal load), from +41 to +55 °C with de-rating*
Altitude above sea level	<1,000 m without load de-rating
Allowable air humidity	<95% (noncondensing)
Noise level standard n+1 fan system	55 – 65 dBA depending on type
Degree of protection	IP42 according to IEC® 60529
Paint	light gray, RAL 7035 structure
Standards: Safety EMC Performance	IEC/EN 62040-1 IEC/EN 62040-2 IEC/EN 62040-3
UPS classification	VFI-SS-111 acc. to IEC 62040-3
Conformity	CE-Label
Efficiency	up to 94% depending on type
Cooling	forced ventilation (two speed) with n+1 redundant monitored fans
Seismic design	up to 1g

* installation manual requirements need to be considered

Gutor PXC specifications

Typical single-line drawing



Standard configuration

- Static bypass switch EN
- Rectifier input switch
- Fixed charging voltage IU characteristic
- PFC rectifier (supplies 100% AC load @ 0.8 PF and charges battery with 20% of nominal power)
- Rectifier line power backfeed protection
- Battery-capacity test (full discharge with current load)
- Human-machine interface with additional LEDs for direct alarm display
- Ground terminal
- Bottom cable entry
- N+1 monitored two-speed fans
- Digital input
 - Emergency power OFF (EPO)
 - One configurable input
- Digital (NO/NC relay)
 - Common alarm
 - Battery operation
 - Static bypass switch On
- Network management card (NMC) for Web-browser-based monitoring including modbus RTU and modbus TCP

Optional features — UPS input

- Isolation transformer on rectifier line power ^T001
- Isolation transformer on bypass line power ^T501

Optional features — Battery circuit

- Battery temperature alarm
- Battery monitor (programmable battery data)
- Battery MCCB box (for nonhazardous areas or hazardous areas zone 1/2 Ex de IIC)

Optional features — UPS output

- Isolation transformer on inverter output ^T401

Optional features — Communication

- Second NMC for Web-browser-based monitoring including modbus RTU and modbus TCP
- IEC 61850

Optional features — Other alarms

- DC ground fault alarm — rectifier and output transformer required

Optional features — General

- Allowable altitude up to 3,000 m above sea level
- Air filters at air inlet
- Top cable entry with additional auxiliary cabinet

Human-machine interface (front panel)

The front panel includes a comprehensive and flexible human-machine interface. It is divided into three sections:

- 1 Control and display consists of a liquid-crystal display screen, indication LEDs for operating modes, and pushbuttons to navigate through the display menus and control the UPS. The user can access measurement data and system information via display menus, including the event and alarm logs.
- 2 Mimic diagram with multicolor LED indicates the current operational status of the system and its components. It clearly indicates the power path currently supplying the load and the availability of the other supplies.
- 3 System alarms and external signals can be flexibly assigned to LEDs for visualization.



Settings accessible via display menu

- Auto start
- Auto boost charge
- Set date/time
- Charge mode
- Bypass operation
- Battery capacity test
- Battery monitor test (optional)
- Display settings
- Menu language

Measurements accessible via display menu

- AC rectifier line power input voltage, current, and frequency
- AC bypass line power input voltage, current, and frequency (optional)
- AC output voltage, current, and frequency
- Load in kVA, kW, and percentage of nominal rating
- Battery voltage and current
- Battery capacity percentage and expected runtime
- Total system status in parallel/redundant operation
- Three temperature measurements (with optional sensors)
- Runtime and switchover statistics
- Maximum and minimum voltages and currents
- Time-stamped event log (operation mode changes and alarms)

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