

Technical Data Sheet

PXP AC UPS System

- >PXP 1000 5-160 kVA single phase
- >PXP 3000 5-160 kVA three phase





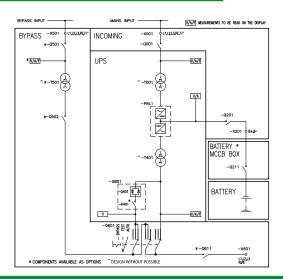
Technical data PXP

Rectifier input voltage	3x380/400/415 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	≤8-10ln
Bypass input voltage PXP 1000	1x220/230/240 V +/-10 %
PXP 3000	3x380/400/415 V +/-10%
Bypass input frequency	50/60 Hz +/-8%
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	1-24h programmable
Charging current limitation	programmable
Nominal UPS ratings at 0.8 lagging PF	5, 10, 15, 20, 30, 40, 50, 60, 80, 100, 120,
	140, 160 kVA
Output voltage PXP 1000	1x220/230/240 V (other voltages optional)
PXP 3000	3x380/400/415 V (other voltages optional)
Voltage tolerance:	
static within 0-100% load	+/-1 %
dynamic for 0-100% or 100-0%	+/-5%
regulation time to +/-1%	<60 ms
regulation time to +/-3% Overload:	<20 ms
Inverter	230 %/60 ms, 150 %/1 min, 125 %/10 min
Bypass	1000%/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	3
Distortion factor:	
Linear load	<2%
Non-linear load according to IEC 62040-3	<5 %
Allowable power factor	0.8 lag-0.8 lead
Ambient temperature range for storage	from -30 to +80 °C
Ambient temperature range for operation	from -10 to +40 °C (100 % nominal load)
Altitude above sea level	<1000 m without load de-rating
Allowable air humidity	<95 % (non condensing)
Noise level standard n+1 fan system	55-65 dBA depending on type
Degree of protection Paint	IP20 according to IEC 60529 pebble gray, RAL 7032 structured
Standards:	pennie gray, i ind 1 002 structureu
Safety	IEC/EN 62040-1
EMC	IEC/EN 62040-2
Performance	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
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redundant monitored fans

Specification PXP

Typical single-line drawing



Standard configuration

Static bypass switch EN

Rectifier input switch

Fixed charging voltage I-V 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)

2 configurable inputs

Digital (NO/NC relay)

Common alarm

Battery operation

Static bypass switch On

Optional features - UPS input

Other input voltages:

3x190, 208, 220, 230, 440, 460, 480, 500, 525, 600, 660, 690 V

Rectifier input MCCB

Without isolation transformer on rectifier line power ^T001

Without isolation transformer on bypass line power ^T501

Bypass stabilizer with isolation transformer

Bypass mains backfeed protection

Optional features - Battery circuit

Battery fuse in UPS

Battery fuse box

Battery MCCB in UPS

Battery MCCB box (for non-hazardous areas or hazardous areas

zone 1/2 Ex de IIC)

Battery temperature alarm

Battery monitor (programmable battery data)

Battery asymmetry supervision

Diode for reverse polarity protection

Up to 3 sensors for temperature dependent battery charging voltage (recommended for Valve Regulated Lead Acid (VRLA) battery)

Optional features - UPS output

Other output voltages:

1x110, 115, 120, 127, 254, 265, 277 V

3x190, 200, 208, 220, 230, 440, 460, 480, 500, 525,

600, 660, 690V

Without isolation transformer on inverter output ^T002

Analog meters 72x72 mm or 96x96 mm (directly beside of HMI):

Rectifier mains (voltage, current, frequency)

Bypass mains (voltage, current, frequency)

Battery (voltage, current)

Inverter output (voltage, current, frequency, PF, kVA, kW)

Others on request built in distribution

Digital outputs (NO/NC relay output):

Operational indications

Battery not connected

Normal operation

Static bypass operation

Manual bypass operation

Boost charge

Float charge

Inverter asynchronous

Fail-safe alarms:

Rectifier line power fault

Bypass line power fault

Battery discharged

Fan failure

Rectifier fault

Inverter fault

Static bypass switch fault

Over temperature

Battery ground fault

More individual operation status indications or fail-safe

alarms on request (maximum 19 relays in total)

Optional features – Communication

Network management card (NMC) for WEB browser based monitoring

MODBUS RS-485, IEC 61850

Other interfaces are available on request

Optional features – Other alarms

DC ground fault alarm

AC ground fault alarm

Optional features - General

Ambient temperature maximum +55°C

Allowable altitude up to 4000 m above sea level

Air filters at air inlet

Other colors

Space heaters

Panel lighting

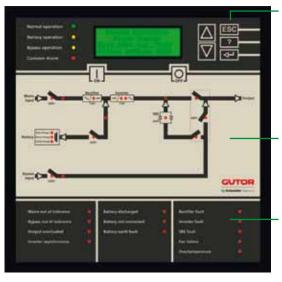
Top cable entry

Protection up to IP52
Cabinet height 2300 mm (standard 1900 mm)

Additional options are available on request

Human-machine interface (front panel)

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



Control and display consists of an LC display, indication LEDs for operating modes, and push buttons 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.

Mimic indicates the current operational status of the system and its components. It clearly shows the power path currently supplying the load and the availability of the other supplies.

Alarm indication for the system alarms, as well as for external signals which 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 % of nominal rating

Battery voltage and current

Battery capacity % and expected runtime

Total system status in parallel/redundant operation

3 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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