

Technical Data Sheet

PXP AC UPS System

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





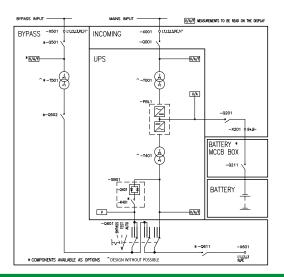
Technical data PXP

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 vo	tage PXP 1000	1x220/230/240 V +/-10%	
PXP 3000		3x380/400/415 V +/-10%	
Bypass input fre	quency	50/60 Hz +/-8%	
Detterry selters		400 \/D0	
Battery voltage		400 VDC	
Battery operating range Float voltage at -10% line power		335–540 VDC	
Boost voltage at nominal line power		programmable within battery operating range	
		programmable within battery operating range	
Boost charge time Charging current limitation		1–24h programmable	
Charging curren	timitation	programmable	
Nominal UPS rat	tings at 0.8 lagging PF	5, 10, 15, 20, 30, 40, 50, 60, 80, 100, 120,	
	go at 0.0 laggg	140, 160 kVA	
Output voltage	PXP 1000	1x220/230/240 V (other voltages optional)	
Odipat voltago	PXP 3000	3x380/400/415 V (other voltages optional)	
Voltage toleranc		Oxodor 4007 410 V (other voltages optional)	
static within 0-100% load dynamic for 0-100% or 100-0% regulation time to +/-1%		+/-1%	
		+/-5%	
		<60 ms	
_	time to +/-3%	<20 ms	
Overload:	unie to +/ 0 /0	\20 III3	
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	
		sinusoidal	
Wave form	ut areat factor	3	
Admissible outp		U	
Linear load		<2 %	
	load according to IEC 62040-3	<5%	
Allowable power	Tactor	0.8 lag-0.8 lead	
Ambient temper	ature 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		IP20 according to IEC 60529	
Paint		pebble gray, RAL 7032 structured	
Standards:		possio gray, in it i rooz on dotarea	
Safety		IEC/EN 62040-1	
EMC		IEC/EN 62040-1	
EIVIC Performan	00	IEC/EN 62040-2	
UPS classification			
)	VFI-SS-111 acc. to IEC 62040-3	
Conformity Efficiency Cooling		CE-Label	
		up to 94 % depending on type	
		forced ventilation (two speed) with n+1	
g		radundant monitored fans	

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

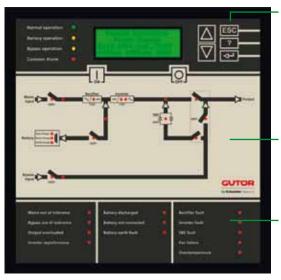
Top cable entry

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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