



ИБП Gutor PXP - технические спецификации. Юниджет

Постоянная ссылка на страницу: <https://www.uni-jet.com/catalog/istochniki-besperebojnogo-pitaniya/on-line-ibp-100-kva/gutor-pxp.html>





Technical Data Sheet

PXP AC UPS System

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



Gutor
is becoming

Schneider
Electric

GUTOR

by **Schneider** Electric

Technical data PXP

UPS input

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	≤8–10I _N
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 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	1–24h programmable
Charging current limitation	programmable

UPS output

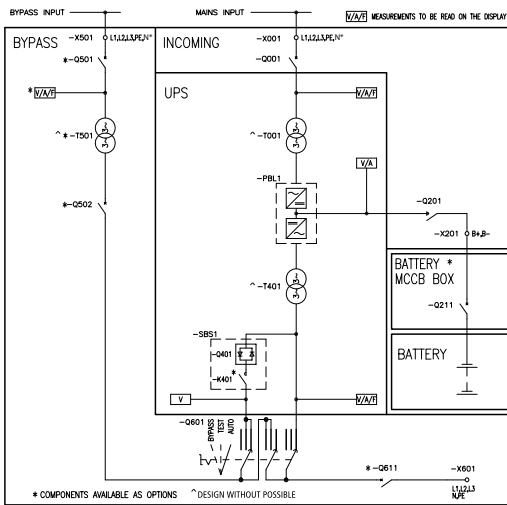
Nominal UPS ratings at 0.8 lagging PF	5, 10, 15, 20, 30, 40, 50, 60, 80, 100, 120, 140, 160 kVA
Output voltage PXP 1000	1x220/230/240 V (other voltages optional)
PXP 3000	3x380/400/415 V (other voltages optional)
Voltage tolerance:	
static within 0–100 % load	+/-1 %
dynamic for 0–100 % or 100–0 %	+/-5 %
regulation time to +/-1 %	<60 ms
regulation time to +/-3 %	<20 ms
Overload:	
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

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)
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:	
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 redundant monitored fans

Data subject to changes

Typical single-line drawing



Standard configuration

- Static bypass switch EN
- Rectifier input switch
- Fixed charging voltage I-U 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

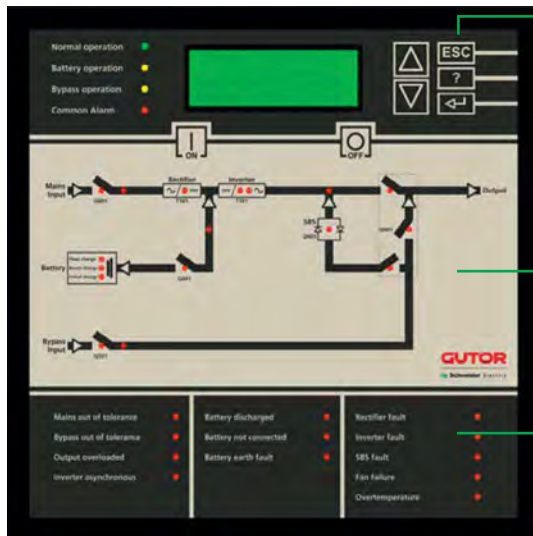
Optional features – General

- 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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