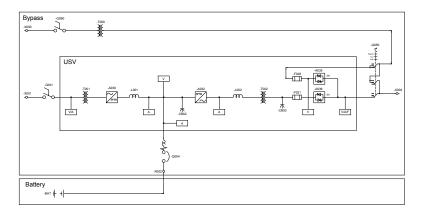


Gutor™ PxW technical data: PEW single phase UPS input							
Rectifier input voltage	3 x 208/480/600 V (other voltage upon r	request)					
Voltage tolerance							
DC in tolerance For function	+/- 10%						
Bypass input voltage	-15/+10%						
Single phase	1 x 120/208/240/480/600 V (other voltage	ge upon request)					
Three phase	3 x 208/480/600 V (other voltage upon request)						
Frequency	60 Hz +/- 8% (50 Hz available upon req	60 Hz +/- 8% (50 Hz available upon request)					
Inrush current	<10x IN (input current)	<10x IN (input current)					
Intermediate DC circuit							
Voltage	110/125/220/400 VDC						
Rectifier voltage tolerance	+/- 1% I-V characteristic	+/- 1% I-V characteristic					
DC ripple voltage	with battery capacity of 3x nominal current: ≤ 1% rms without battery: ≤ 2% rms, optional without battery: ≤ 1% rms						
Float voltage at -10% line power	100 – 115% programmable	100 – 115% programmable					
Boost voltage range at nominal line power	100 – 125% programmable	100 – 125% programmable					
Boost charge time	1 – 24 hour programmable	1 – 24 hour programmable					
Charging current limitation	programmable						
Inverter input range (output tolerance +/- 1%)	+20/-15%	+20/-15%					
Inverter maximum input range (output tolerance +/- 10%)	+/- 25%						
UPS output							
Nominal UPS Inverter rating	kVA at PF 1.0						
Voltage							
Single phase Three phase	1 x 120/240 V (other voltage upon reque 3 x 208/480 V	est)					
Voltage tolerance	17.407						
Static within 0 – 100% load Dynamic at 100% load surge	+/- 1% +/- 4%						
Regulation time	<25 ms						
Overload	105% continuous						
Inverter 1 min	150%						
Inverter 10 min Bypass 100 ms	125% 1,000%	125%					
Short-circuit inverter 100 ms	200%						
Frequency	60 Hz +/- 8% (50 Hz available upon req	uiact\					
Frequency stability, free running	<0.01%	uestj					
Synchronization range	0.5/1/2/4/6/8%						
Slew rate single units	0.25/0.5/1/2/4 Hz/s programmable						
Slew rate redundant system	4.0 Hz/s						
Wave form	sinusoidal						
Admissible output crest factor	unlimited						
Distortion factor	driiimited						
Linear load	≤ 3%						
Nonlinear load	≤ 5%						
Allowable power factor	0.4 lag – 0.9 lead	0.4 lag – 0.9 lead					
Fault clearing capability	200% for 100 ms via inverter, 1,000% fo	or 100 ms via bypass					
General data							
Ambient temperature range for storage	from -20 to +70 °C	from -4 to +158 °F					
Ambient temperature range for operation	from -10 to +55 °C	from 14 to +131 °F					
Altitude above sea level	1,000 m without load de-rating	3,280 ft without load de-rating					
Allowable air humidity	<95% (non-condensing)						
Noise level standard n+1 fan system	60 – 75 dBA depending on type						
Degree of protection	NEMA 1 (IP20)						
Paint	pearl light gray, RAL 9022 cabinet	pearl light gray, RAL 9022 cabinet					
Efficiency	up to 91% depending on type	up to 91% depending on type					
Cooling	forced ventilation (two speed) with n+1	redundant, monitored fans					
Standards							
Safety EMC	UL 1778 / CSA 22.2-107.3 FCC Part 15 Subpart B, Class A						
	NEMA PE-1						
Performance	TVEIVI/ CT E T						

Life Is On Schneider

Gutor PxW specifications: PEW single phase/PDW three phase

Typical single-line drawing



Single-phase drawing

Battery voltage and UPS ratings

Single phase Three phase

Voltage (VDC)	110		125		220		400	
1 1 2 4	5	-	5	-	5	-	_	-
	10	10	10	10	10	10	-	-
	15	15	15	15	15	15	_	-
	20	20	20	20	20	20	_	_
	40	40	40	40	40	40	-	-
	50	_	50	_	50	_	_	_
	_	60	_	60	60	60	_	_
	_	80	_	80	80	80	_	-
	_	_	_	_	100	100	_	_
	_	_	_	_	_	120	120	120
							150	
	-	_	_	_	_	160	_	160
	-	_	_	_	_	_	200	_
	_	-	-	-	-	-	-	220

Higher ratings and other voltages on request

Standard configuration

· Single UPS

· UPS output voltage

Single phase: 1 x 120 VThree phase: 3 x 480 V

• Rectifier input voltage: 3 x 480 V +10/-10%

· Bypass input voltage

Single phase: 1 x 120 V +10/-10%Three phase: 3 x 480 V +10/-10%

• Frequency: 60 Hz +/- 8%

· 6-pulse rectifier with isolation transformer

• Rectifier sized for output PF = 0.8

· Rectifier input breaker

· Fixed charging voltage IU characteristic

• Static switch EN (line power side)

· Static switch EA (inverter side)

• LC display unit with additional alarm LEDs

Alarm relays for battery operation and common alarm

Bottom cable entry

Ground terminal

N+1 monitored two-speed fans

• Ambient temperature range from +14 to +104 °F

NEMA 1 (IP20)

· Painting pearl light gray, RAL 9022 structure

Battery MCCB in UPS

Three position manual bypass switch

· Bypass backfeed protection



Options

System

- Redundant/Parallel Load Sharing Configuration
- Redundant/Parallel Dual Configuration
- AC distribution
- · AC and DC earth-fault monitoring
- · Input harmonic filter

Rectifier

- Rectifier input MCCB
- 12-pulse rectifier with isolation transformer
- · Oversized rectifier
- Rectifier fuse
- Diode for reverse polarity protection
- Rectifier output isolator/circuit breaker

Battery

- Battery circuit protection box (MCCB/fuse)
- Battery circuit protection in rectifier (MCCB/fuse)
- · Low-voltage disconnect
- Battery management system (single cell type)
- Temperature sensor for temperature compensated battery charging
- Battery monitor (programmable battery data)
- Battery asymmetry supervision

Inverter

- · Inverter input isolator/circuit breaker
- Black start facility
- Oversized inverter



Bypass

- · Bypass switch blocking coil
- · Remote manual bypass switch
- Bypass input isolator/circuit breaker
- · Bypass isolation transformer
- · Bypass voltage regulating transformer
- · Independent static bypass switch

Indication and alarms

- Input power failure
- DC earth fault
- · Inverter fuse blown
- · DC out of tolerance
- 5x customizable options
- Bypass input power failure
- Rectifier fuse blown
- Fan failure
- Internal PSU fault
- · Battery discharged
- System overtemperature
- · EA inhibited (UPS output static switch)
- Battery disconnected
- Inverter ON
- EN inhibited (Bypass static switch)
- Battery operation
- Boost (Equalize) charge ON
- Manual bypass ON
- · Rectifier failure
- Rectifier ON
- Asynchronous
- EA ON (UPS output static switch)
- External horn
- Inverter failure
- EN ON (Bypass static switch)
- Overload inverter/bypass

Communication interfaces

- · Front-panel analog meter
- Power meter
- Transducer
- Relay board, 16 fail-safe NO/NC contacts
- RS-232/485 interface (downloadable event log)
- RJ-45 Ethernet port for Web browser-based monitoring
- · Modbus protocol on RS-485 or TCP/IP
- IEC 61850 protocol on RJ-45 and/or fiber optic connector
- Profibus[®] on RS-485
- External time synchronization

Mechanical

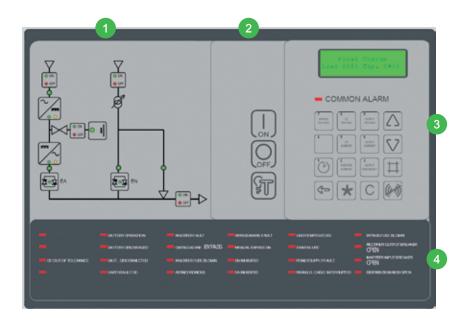
- Top/bottom cable entry
- NEMA 12 per NEMA 250-1991 (IP52)
- · Air filters at air inlet
- 100% redundant ventilation
- · Seismic design
- · Space heaters
- Panel lighting
- · Cabinet color as required
- Ambient temperature maximum +131 °F
- Allowable altitude up to 13,123 ft (4,000 m) above sea level

Additional options are available upon request.

Human-machine interface

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

- 1 The system panel shows the current state of operation and how power is being routed through the system to the load.
- The operations panel is used to turn the system on and off. The Lamp Test button indicates whether all LED indication lights on the front panel are functioning properly.
- The keypad is used to view system measurements and interact with the system.
- The alarm & indication panel displays possible faults and alarms.



Operational parameters

- Selectable second display language
- Bypass operation
- Boost charge
- · Auto boost (equalize) charge
- Battery-capacity test
- Battery-monitor test (optional)
- Set date/time

Measurements

- · Load in percentage of nominal kVA rating
- · AC rectifier input voltage and current
- AC bypass input voltage
- Total DC current, battery voltage, and battery current
- Battery temperature (with optional sensor)
- AC Inverter current
- AC output voltage, current, and frequency
- AC output peak current
- Battery backup time remaining (optional with string type battery monitor)
- Event log with date and time (operating mode changes and alarms)





Headquarters

Gutor Electronic LLC,
Hardstrasse 72 – 74, 5430 Wettingen, Switzerland
P +41 (0)56 437 34 34 | F +41 (0)56 437 34 44 | gutor.info@schneider-electric.com

Gutor Electronic Asia Pacific Gutor Electronic Asia Pacific Sdn.Bhd No.19, Jalan Juruukur U1/19, Seksyen U1, Hicom Glenmarie Ind Park,

schneider-electric.com/gutor

