

Gutor PXC

25-100 kVA

Technical Specifications

11/2017



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Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

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Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a “Danger” or “Warning” safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, **will result in death or serious injury**.

Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, **could result in death or serious injury**.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, **could result in minor or moderate injury**.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

FCC Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safety Precautions

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- The product must be installed according to the specifications and requirements as defined by Schneider Electric. It concerns in particular the external and internal protections (upstream circuit breakers, battery circuit breakers, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- After the UPS system has been electrically wired, do not start up the system. Start-up must only be performed by Schneider Electric.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The UPS System must be installed according to local and national regulations. Install the UPS according to:

- IEC 60364 (including 60364-4-41 - protection against electric shock, 60364-4-42 - protection against thermal effect, and 60364-4-43 - protection against overcurrent), **or**
- UL 1778 5th edition, **or**
- CSA 22.2 No. 107.3-14 3rd edition, **or**
- NEC NFPA 70

depending on which one of the standards apply in your local area.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Install the UPS system in a temperature controlled area free of conductive contaminants and humidity.
- Install the UPS system on a non-inflammable, level, and solid surface (e.g. concrete) that can support the weight of the system.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The UPS is not designed for and must therefore not be installed in the following unusual operating environments:

- Damaging fumes
- Explosive mixtures of dust or gases, corrosive gases, or conductive or radiant heat from other sources
- Moisture, abrasive dust, steam or in an excessively damp environment
- Fungus, insects, vermin
- Salt-laden air or contaminated cooling refrigerant
- Pollution degree higher than 2 according to IEC 60664-1
- Exposure to abnormal vibrations, shocks, and tilting
- Exposure to direct sunlight, heat sources, or strong electromagnetic fields

Failure to follow these instructions will result in death or serious injury.

NOTICE

RISK OF OVERHEATING

Respect the clearance requirements around the UPS system and do not cover the product's ventilation openings when the UPS system is in operation.

Failure to follow these instructions can result in equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

Do not connect the UPS output to regenerative load systems including photovoltaic systems and speed drives.

Failure to follow these instructions can result in equipment damage.

Technical Data

Model List

UPS without Transformer

- Gutor PXC 25 kVA (GUPXC25F)
- Gutor PXC 37.5 kVA (GUPXC37F)
- Gutor PXC 50 kVA (GUPXC50F)
- Gutor PXC 75 kVA (GUPXC75F)
- Gutor PXC 100 kVA (GUPXC100F)

UPS with Transformer 480–208 V

- Gutor PXC 25 kVA single mains (GUPXC25GFI)
- Gutor PXC 25 kVA dual mains (GUPXC25GFDI)
- Gutor PXC 37.5 kVA single mains (GUPXC37GFI)
- Gutor PXC 37.5 kVA dual mains (GUPXC37GFDI)
- Gutor PXC 50 kVA single mains (GUPXC50GFI)
- Gutor PXC 50 kVA dual mains (GUPXC50GFDI)
- Gutor PXC 75 kVA single mains (GUPXC75GFI)
- Gutor PXC 75 kVA dual mains (GUPXC75GFDI)
- Gutor PXC 100 kVA single mains (GUPXC100GFI)
- Gutor PXC 100 kVA dual mains (GUPXC100GFDI)

UPS with Transformer 600–208 V

- Gutor PXC 25 kVA single mains (GUPXC25LFI)
- Gutor PXC 25 kVA dual mains (GUPXC25LFDI)
- Gutor PXC 37.5 kVA single mains (GUPXC37LFI)
- Gutor PXC 37.5 kVA dual mains (GUPXC37LFDI)
- Gutor PXC 50 kVA single mains (GUPXC50LFI)
- Gutor PXC 50 kVA dual mains (GUPXC50LFDI)
- Gutor PXC 75 kVA single mains (GUPXC75LFI)
- Gutor PXC 75 kVA dual mains (GUPXC75LFDI)
- Gutor PXC 100 kVA single mains (GUPXC100LFI)
- Gutor PXC 100 kVA dual mains (GUPXC100LFDI)

Input Power Factor

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
100% load	0.98–0.99				

Efficiency for UPS without Transformer

Efficiency in Normal Operation

The table below provides average system efficiencies with a balanced linear load.

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
25% load	90.4	90.4	90.9	91.3	91.2
50% load	92.6	92.3	93.0	93.2	93.0
75% load	92.5	92.5	92.8	93.0	92.8
100% load	92.2	92.2	92.4	92.5	92.3

Efficiency in Battery Operation

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
25% load	90.0	90.0	90.0	90.0	90.0
50% load	92.2	92.3	92.3	92.3	92.2
75% load	92.0	92.1	92.1	92.1	92.0
100% load	92.0	92.1	92.1	92.1	92.0

Efficiency for UPS with Transformer

Efficiency in Normal Operation for 480–208 V

The table below provides average system efficiencies with a balanced linear load.

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
25% load	82.5	84.5	86.6	87.6	88.6
50% load	88.4	89.2	90.1	90.5	90.9
75% load	89.6	90.0	90.4	90.6	90.8
100% load	90.0	90.1	90.2	90.3	90.4

Efficiency in Normal Operation for 600–208 V

The table below provides average system efficiencies with a balanced linear load.

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
25% load	80.5	82.5	84.5	85.5	86.5
50% load	87.7	88.5	83.4	89.8	90.2
75% load	89.2	89.6	90.0	90.2	90.4
100% load	89.6	89.7	90.2	90.1	90.0

Efficiency in Battery Operation

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
25% load	90.0	90.0	90.0	90.0	90.0
50% load	92.2	92.3	92.3	92.3	92.2
75% load	92.0	92.1	92.1	92.1	92.0
100% load	92.0	92.1	92.1	92.1	92.0

Battery Runtimes

Energys Battery Runtimes

Battery runtimes are listed in minutes at 100% load. Battery runtimes are estimated values based on battery manufacturer data at 25 °C.

Description (SKU number)	Cabinets	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
Battery cabinet 150 A CB 12HX100 (GUPXCB150EN100)	1	7	-	-	-	-
Battery cabinet 150 A CB 12HX150 (GUPXCB150EN150)	1	16	9	-	-	-
Battery cabinet 150 A CB 12HX150 (GUPXCB150EN150)	2	42	-	-	-	-
Battery cabinet 150 A CB 12HX205 (GUPXCB150EN205)	1	25	15	-	-	-
Battery cabinet 150 A CB 12HX205 (GUPXCB150EN205)	2	-	36	-	-	-
Battery cabinet 150 A CB 12HX300 (GUPXCB150EN300)	1	-	23	-	-	-
Battery cabinet 200 A CB 12HX205 (GUPXCB200EN205)	1	-	-	9	-	-
Battery cabinet 200 A CB 12HX300 (GUPXCB200EN300)	1	-	-	16	-	-
Battery cabinet 200 A CB 12HX540 (GUPXCB200EN540)	1	-	-	37	-	-
Battery cabinet 300 A CB 12HX300 (GUPXCB300EN300)	1	-	-	-	8	-
Battery cabinet 300 A CB12HX540 (GUPXCB300EN540)	1	-	-	-	22	-
Battery cabinet 300 A CB 12HX540 (GUPXCB300EN540)	2	-	-	-	53	-
Battery cabinet 400 A CB 12HX300 (GUPXCB400EN300)	1	-	-	-	-	5
Battery cabinet 400 A CB 12HX540 (GUPXCB400EN540)	1	-	-	-	-	14
Battery cabinet 400 A CB 12HX540 (GUPXCB400EN540)	2	-	-	-	-	37

NOTE: Contact Schneider Electric for information on additional runtimes.

C&D Battery Runtimes

Battery runtimes are listed in minutes at 100% load. Battery runtimes are estimated values based on battery manufacturer data at 25 °C.

Description (SKU number)	Cabinets	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
Battery cabinet 150 A CB UPS12-100MR (GUPXCB150CD100)	1	7	-	-	-	-
Battery cabinet 150 A CB UPS12-150MR (GUPXCB150CD150)	1	16	9	-	-	-
Battery cabinet 150 A CB UPS12-150MR (GUPXCB150CD150)	2	42	-	-	-	-
Battery cabinet 150 A CB UPS12-210MR (GUPXCB150CD210)	1	25	15	-	-	-
Battery cabinet 150 A CB UPS12-210MR (GUPXCB150CD210)	2	-	36	-	-	-
Battery cabinet 150 A CB UPS12-300MR (GUPXCB150CD300)	1	-	23	-	-	-
Battery cabinet 200 A CB UPS12-210MR (GUPXCB200CD210)	1	-	-	9	-	-
Battery cabinet 200 A CB UPS12-300MR (GUPXCB200CD300)	1	-	-	16	-	-
Battery cabinet 200 A CB UPS12-540MR (GUPXCB200CD540)	1	-	-	37	-	-
Battery cabinet 300 A CB UPS12-300MR (GUPXCB300CD300)	1	-	-	-	8	-
Battery cabinet 300 A CB UPS12-540MR (GUPXCB300CD540)	1	-	-	-	22	-
Battery cabinet 300 A CB UPS12-540MR (GUPXCB300CD540)	2	-	-	-	53	-
Battery cabinet 400 A CB UPS12-300MR (GUPXCB400CD300)	1	-	-	-	-	5
Battery cabinet 400 A CB UPS12-540MR (GUPXCB400CD540)	1	-	-	-	-	14
Battery cabinet 400 A CB UPS12-540MR (GUPXCB400CD540)	2	-	-	-	-	37

NOTE: Contact Schneider Electric for information on additional runtimes.

Derating Due to Load Power Factor

0.5 leading to 0.5 lagging without derating

Compliance

Safety	UL 1778 5th edition
EMC/EMI/RFI	FCC Part 15 Class A
Markings	UL 1778 / ULC

Communication and Management

Input Contacts and Output Relays Configuration Settings

The default configuration settings are shown.

Name	Description	Location on external connection board 0P2553	Value
Option 1 IN	Input contact: Block boost/initial charge	J1600	Closed state: Disable boost charge
Option 2 IN	Input contact: Force to boost charge	J1601	Closed state: Start boost charge
Common alarm	Output relay: Common alarm	J1607	Normally open (NO)/ Normally closed (NC) Maximum 250 VAC, 8 A Maximum 24 VDC, 8 A
Option 1 OUT	Output relay: Battery operation	J1608	
Option 2 OUT	Output relay: Static bypass operation	J1609	

Facility Planning

UPS without Transformer

Input Specifications

	25 kVA		37.5 kVA		50 kVA	
Voltage (V)	208	220	208	220	208	220
Connections	L1, L2, L3, N, G for single mains L1, L2, L3, G for dual mains					
Voltage range (V)	±10%					
Frequency range (Hz)	60 ±8%					
Nominal input current (A)	75	71	112	106	149	141
Maximum input current (A)	91	86	137	129	182	172
Total harmonic distortion (THDI)	< 5% at 100% load					
Maximum input short circuit rating (kA)	65					
Ramp-in	Up to 10 seconds					

	75 kVA		100 kVA	
Voltage (V)	208	220	208	220
Connections	L1, L2, L3, N, G for single mains L1, L2, L3, G for dual mains			
Voltage range (V)	±10%			
Frequency range (Hz)	60 ±8%			
Nominal input current (A)	221	209	295	279
Maximum input current (A)	270	255	360	340
Total harmonic distortion (THDI)	< 5% at 100% load			
Maximum input short circuit rating (kA)	65			
Ramp-in	Up to 10 seconds			

Bypass Specifications

	25 kVA		37.5 kVA		50 kVA	
Voltage (V)	208	220	208	220	208	220
Connections	L1, L2, L3, N, G					
Voltage range (V)	±10%					
Frequency range(Hz)	60 ± 8%					
Nominal bypass current (A)	69	66	104	98	139	131

	75 kVA		100 kVA	
Voltage (V)	208	220	208	220
Connections	L1, L2, L3, N, G			
Voltage range (V)	±10%			

	75 kVA		100 kVA	
Voltage (V)	208	220	208	220
Frequency range (Hz)	60 ± 8%			
Nominal bypass current (A)	208	197	278	262

Output Specifications

	25 kVA		37.5 kVA		50 kVA	
Voltage (V)	208	220	208	220	208	220
Connections	L1, L2, L3, N, G					
Overload capacity	150% for 1 minute 125% for 10 minutes 230% for 60 ms 1000% for 100 ms (bypass operation)					
Voltage range (V)	± 1%					
Power factor	1					
Nominal output current (A)	69	66	104	98	139	131
Total harmonic distortion (THDU)	< 2% at 100% linear load < 5% at 100% non-linear load					
Frequency (Hz)	60 Hz (sync to bypass) 60 Hz ± 0.1% (free-running)					
Slew rate (Hz/sec)	Programmable: 0.25, 0.5, 1, 2, or 4					
Load crest factor	3:1					
Load power factor	0.5 leading to 0.5 lagging without derating					

	75 kVA		100 kVA	
Voltage (V)	208	220	208	220
Connections	L1, L2, L3, N, G			
Overload capacity	150% for 1 minute 125% for 10 minutes 230% for 60 ms 1000% for 100 ms (bypass operation)			
Voltage range (V)	± 1%			
Power factor	1			
Nominal output current (A)	208	197	278	262
Total harmonic distortion (THDU)	< 2% at 100% linear load < 5% at 100% non-linear load			
Frequency (Hz)	60 Hz (sync to bypass) 60 Hz ± 0.1% (free-running)			
Slew rate (Hz/sec)	Programmable: 0.25, 0.5, 1, 2, or 4			
Load crest factor	3:1			
Load power factor	0.5 leading to 0.5 lagging without derating			

Battery Specifications

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
Charging power in % of output power	20%				
Nominal battery voltage (VDC)	384				
Nominal float voltage (VDC)	436				

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
Boost charge voltage (VDC)	441				
End of discharge voltage (full load) (VDC)	321				
Battery current at full load and nominal battery voltage (A)	69	104	138	207	276
Battery current at full load and minimum battery voltage (A)	83	124	165	248	331
Restored energy time to 90% charge	Up to 8 hours				
Temperature compensation	Adjustable				
Ripple current	< 1%				
Battery test	Manual or automatic (selectable)				
Deep discharge protection	Yes				
Recharge according to battery temperature	Yes				
Cold start	Yes				

Recommended Upstream Protection

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

A suitable surge protective device rated not greater than 2500 V must be installed on the input source.

Failure to follow these instructions will result in death or serious injury.

80% rated circuit breaker	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
Input (A)	125	175	225	350	450
Bypass (A)	90	150	175	300	350

Recommended Cable Sizes

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All wiring must comply with all applicable national and/or electrical codes (National Electrical Code, ANSI/NFPA 70). The maximum allowable conductor size is:

- 250 kcmil for 25-50 kVA UPS
- 500 kcmil for 75-100 kVA UPS

Failure to follow these instructions will result in death or serious injury.

Cable sizes in this manual are based on Table 310.15 of the National Electrical Code 2014 (NEC) with the following assertions:

- 90 °C conductors (THHN) for 75 °C termination
- Not more than one current carrying conductor per phase for 25-50 kVA UPS
- Not more than two current carrying conductor per phase for 75-100 kVA UPS
- Use of copper conductors only – do not use aluminum conductors.
- An ambient temperature of 30 °C

If the ambient temperature is greater than 30 °C, larger conductors are to be selected with the correction factors of the NEC. Equipment grounding conductors (EGC) are sized in accordance with NEC Article 250.122 and Table 250.122.

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
Input	1 AWG	2/0 AWG	4/0 AWG	500 kcmil or 2 x 2/0 AWG	2 x 4/0 AWG
Bypass	3 AWG	1/0 AWG	2/0 AWG	350 kcmil or 2 x 1/0 AWG	500 kcmil or 2 x 2/0 AWG
Output	3 AWG	1/0 AWG	2/0 AWG	350 kcmil or 2 x 1/0 AWG	500 kcmil or 2 x 2/0 AWG
Battery	1/0 AWG	1/0 AWG	3/0 AWG	350 kcmil or 2 x 1/0 AWG	2 x 4/0 AWG

25–50 kVA UPS with Transformer

Input Specifications

	25 kVA		37.5 kVA		50 kVA	
Input Voltage (V)	480	600	480	600	480	600
Connections	L1, L2, L3, N, G for single mains L1, L2, L3, G for dual mains					
Voltage range (V)	±10%					
Frequency (Hz)	60 ±8%					
Nominal input current ¹ (A)	33	27	50	40	67	53
Maximum input current ² (A)	42	33	63	50	83	67
Total harmonic distortion (THDI)	< 5% at 100% load					
Maximum input short-circuit rating	65 kA at 480 V 50 kA at 600 V					
Inrush current	11 x nominal input current					
Protection	Upstream protection according to source, preferable current limiting					
Ramp-in	10% nominal power/sec					

Bypass Specifications

	25 kVA		37.5 kVA		50 kVA	
Voltage (V)	480	600	480	600	480	600
Connections	L1, L2, L3, N, G					
Voltage range (V)	±10%					
Frequency (Hz)	60 ±8%					
Nominal bypass current (A)	30	24	45	36	60	48
Inrush current	11 x nominal input current					
Protection	Upstream protection according to source, preferable current limiting					

Output Specifications

	25 kVA	37.5 kVA	50 kVA
Voltage (V)	208	208	208
Connections	L1, L2, L3, N, G		
Overload capacity	125% for 10 minutes 150% for 1 minute 230% for 60 ms 1000% for 100 ms (bypass operation)		
Voltage range (V)	± 1%		
Power factor	1		
Nominal output current (A)	69	104	139
Total harmonic distortion (THDU)	< 2% at 100% linear load < 5% at 100% non-linear load		
Frequency (Hz)	60 Hz (sync to bypass) 60 Hz ± 0.1% (free-running)		

1. Nominal input current based on nominal mains voltage and batteries fully charged at rated load.
2. Maximum input current based on nominal mains voltage and battery charging at rated load.

	25 kVA	37.5 kVA	50 kVA
Voltage (V)	208	208	208
Slew rate (Hz/sec)	Programmable: 0.25, 0.5, 1, 2, or 4		
Load crest factor	3:1		
Load power factor	0.5 leading to 0.5 lagging without derating		

Battery Specifications

	25 kVA	37.5 kVA	50 kVA
Charging power in % of output power	20%		
Nominal battery voltage (VDC)	384		
Nominal float voltage (VDC)	436		
Boost charge voltage (VDC)	441		
End of discharge voltage (full load) (VDC)	321		
Battery current at full load and nominal battery voltage (A)	69	104	138
Battery current at full load and minimum battery voltage (A)	83	124	165
Restored energy time to 90% charge	Up to 8 hours		
Temperature compensation	Adjustable		
Ripple current	< 1%		
Battery test	Manual or automatic (selectable)		
Deep discharge protection	Yes		
Recharge according to battery temperature	Yes		
Cold start	Yes		

Recommended Upstream Protection

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

A suitable surge protective device rated not greater than 2500 V must be installed on the input source.

Failure to follow these instructions will result in death or serious injury.

80% rated circuit breaker	25 kVA		37.5 kVA		50 kVA	
Voltage (V)	480	600	480	600	480	600
Input (A)	80	70	100	90	125	100
Bypass (A)	80	70	100	90	125	100

Recommended Cable Sizes

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All wiring must comply with all applicable national and/or electrical codes (National Electrical Code, ANSI/NFPA 70). The maximum allowable conductor size is 250 kcmil.

Failure to follow these instructions will result in death or serious injury.

Cable sizes in this manual are based on Table 310.15 of the National Electrical Code 2014 (NEC) with the following assertions:

- 90 °C conductors (THHN) for 75 °C termination
- Not more than one current carrying conductor per phase for 25-50 kVA UPS
- Not more than two current carrying conductor per phase for 75-100 kVA UPS
- Use of copper conductors only – do not use aluminum conductors.
- An ambient temperature of 30 °C

If the ambient temperature is greater than 30 °C, larger conductors are to be selected with the correction factors of the NEC. Equipment grounding conductors (EGC) are sized in accordance with NEC Article 250.122 and Table 250.122.

	25 kVA	37.5 kVA	50 kVA
Input	4 AWG	3 AWG	1 AWG
Bypass	4 AWG	3 AWG	1 AWG
Output	3 AWG	1/0 AWG	2/0 AWG
Battery	1/0 AWG	1/0 AWG	3/0 AWG

75–100 kVA UPS with Transformer

Input Specifications

	75 kVA		100 kVA	
Input Voltage (V)	480	600	480	600
Connections	L1, L2, L3, N, G for single mains L1, L2, L3, G for dual mains, OR L1, L2, L3, N, G for dual mains			
Voltage range (V)	±10%			
Frequency (Hz)	60 ±8%			
Nominal input current ³ (A)	100	80	133	106
Maximum input current ⁴ (A)	125	100	167	134
Total harmonic distortion (THDI)	< 5% at 100% load			
Maximum input short-circuit rating	65 kA at 480 V 50 kA at 600 V			
Inrush current	11 x nominal input current			
Protection	Upstream protection according to source, preferable current limiting			
Ramp-in	10% nominal power/sec			

Bypass Specifications

	75 kVA		100 kVA	
Voltage (V)	480	600	480	600
Connections	L1, L2, L3, N, G			
Voltage range (V)	±10%			
Frequency (Hz)	60 ±8%			
Nominal bypass current (A)	90	72	120	96
Inrush current	11 x nominal input current			
Protection	Upstream protection according to source, preferable current limiting			

Output Specifications

	75 kVA	100 kVA
Voltage (V)	208	208
Connections	L1, L2, L3, N, G	
Overload capacity	150% for 1 minute 125% for 10 minutes 230% for 60 ms 1000% for 100 ms (bypass operation)	
Voltage range (V)	±1%	
Power factor	1	
Nominal output current (A)	208	278
Total harmonic distortion (THDU)	< 2% at 100% linear load < 5% at 100% non-linear load	
Frequency (Hz)	60 Hz (sync to bypass) 60 Hz ±0.1% (free-running)	

3. Nominal input current based on nominal mains voltage and batteries fully charged at rated load.

4. Maximum input current based on nominal mains voltage and battery charging at rated load.

	75 kVA	100 kVA
Voltage (V)	208	208
Slew rate (Hz/sec)	Programmable: 0.25, 0.5, 1, 2, or 4	
Load crest factor	3:1	
Load power factor	0.5 leading to 0.5 lagging without derating	

Battery Specifications

	75 kVA	100 kVA
Charging power in % of output power	20%	
Nominal battery voltage (VDC)	384	
Nominal float voltage (VDC)	436	
Boost charge voltage (VDC)	441	
End of discharge voltage (full load) (VDC)	321	
Battery current at full load and nominal battery voltage (A)	207	276
Battery current at full load and minimum battery voltage (A)	248	331
Restored energy time to 90% charge	Up to 8 hours	
Temperature compensation	Adjustable	
Ripple current	< 1%	
Battery test	Manual or automatic (selectable)	
Deep discharge protection	Yes	
Recharge according to battery temperature	Yes	
Cold start	Yes	

Recommended Upstream Protection

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

A suitable surge protective device rated not greater than 2500 V must be installed on the input source.

Failure to follow these instructions will result in death or serious injury.

80% rated circuit breaker	75 kVA		100 kVA	
Voltage (V)	480	600	480	600
Input (A)	175	150	225	175
Bypass (A)	175	150	225	175

Recommended Cable Sizes

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All wiring must comply with all applicable national and/or electrical codes (National Electrical Code, ANSI/NFPA 70). The maximum allowable conductor size is 500 kcmil.

Failure to follow these instructions will result in death or serious injury.

Cable sizes in this manual are based on Table 310.15 of the National Electrical Code 2014 (NEC) with the following assertions:

- 90 °C conductors (THHN) for 75 °C termination
- Not more than one current carrying conductor per phase for 25-50 kVA UPS
- Not more than two current carrying conductor per phase for 75-100 kVA UPS
- Use of copper conductors only – do not use aluminum conductors.
- An ambient temperature of 30 °C

If the ambient temperature is greater than 30 °C, larger conductors are to be selected with the correction factors of the NEC. Equipment grounding conductors (EGC) are sized in accordance with NEC Article 250.122 and Table 250.122.

	75 kVA	100 kVA
Input	2/0 AWG	4/0 AWG
Bypass	2/0 AWG	4/0 AWG
Output	350 kcmil or 2 x 1/0 AWG	500 kcmil or 2 x 2/0 AWG
Battery	350 kcmil or 2 x 1/0 AWG	2 x 4/0 AWG

Torque Specifications

Bolt size	Torque
M3	0.63 (0.46 lb-ft)
M4	1.7 Nm (1.25 lb-ft)
M6	5 Nm (3.69 lb-ft)
M8	17.5 Nm (12.91 lb-ft)
M10	30 Nm (22 lb-ft)
M12	50 Nm (36.87 lb-ft)

Physical

UPS without Transformer

UPS Weights and Dimensions

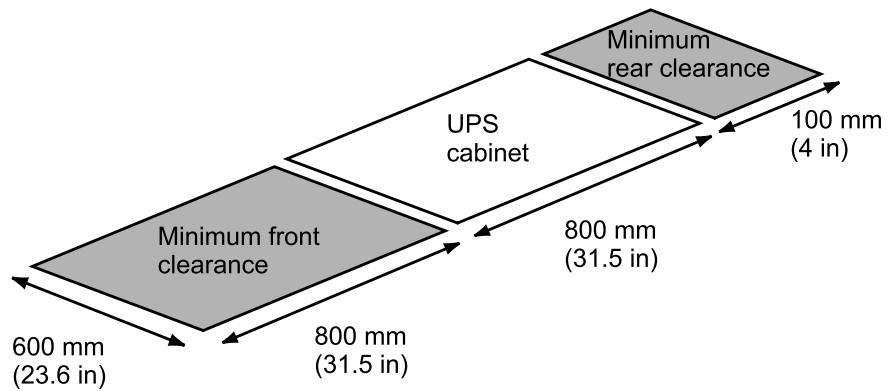
	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
25 kVA	330 (725)	2100 (82.7)	600 (23.6)	800 (31.5)
37.5 kVA	409 (900)	2100 (82.7)	600 (23.6)	800 (31.5)
50 kVA	455 (1000)	2100 (82.7)	600 (23.6)	800 (31.5)
75 kVA	745 (1640)	2100 (82.7)	1200 (47.2)	800 (31.5)
100 kVA	836 (1840)	2100 (82.7)	1200 (47.2)	800 (31.5)

UPS Shipping Weights and Dimensions

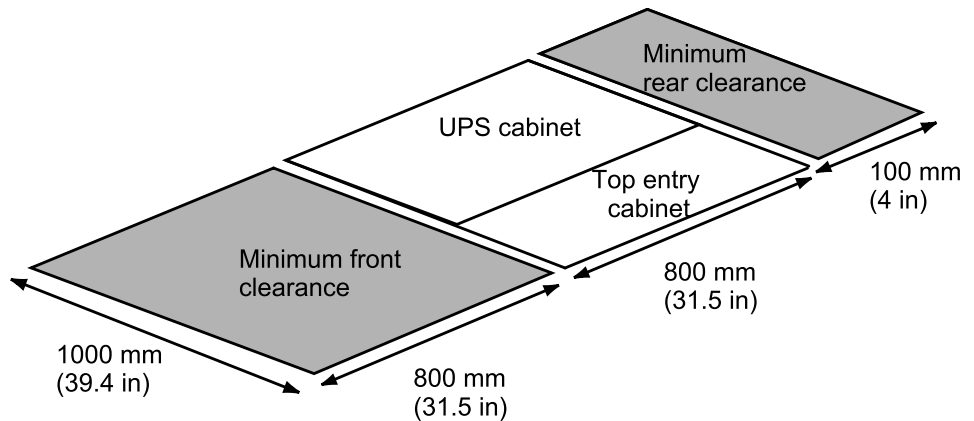
	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
25 kVA	380 (835)	2300 (90.5)	820 (32.3)	1082 (42.6)
37.5 kVA	459 (1010)	2300 (90.5)	820 (32.3)	1082 (42.6)
50 kVA	505 (1110)	2300 (90.5)	820 (32.3)	1082 (42.6)
75 kVA	780 (1715)	2300 (90.5)	1420 (55.9)	1082 (42.6)
100 kVA	870 (1915)	2300 (90.5)	1420 (55.9)	1082 (42.6)

Clearance

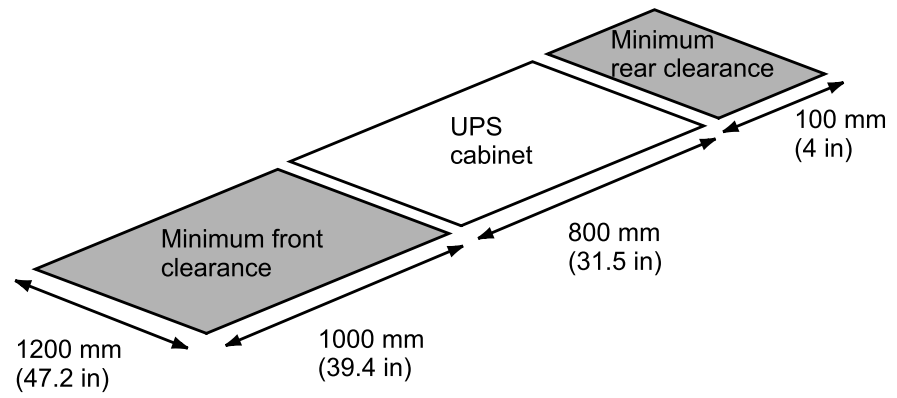
25–50 kVA UPS



25–50 kVA UPS with Top Entry Cabinet



75-100 kVA UPS



The UPS system requires a minimum rear clearance of 100 mm (4 in). There is no side clearance required for installation.

NOTE: Clearance dimensions are published for airflow only. Consult with the local safety codes and standards for additional requirements in your local area.

25–50 kVA UPS with Transformer

UPS Weights and Dimensions

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
25 kVA with T001 input transformer	563 (1250)	2100 (82.7)	600 (23.6)	800 (31.5)
25 kVA with T001 input and T003 bypass transformer	923 (2050)	2100 (82.7)	1200 (47.2)	800 (31.5)
37.5 kVA with T001 input transformer	721 (1600)	2100 (82.7)	600 (23.6)	800 (31.5)
37.5 kVA with T001 input and T003 bypass transformer	1171 (2600)	2100 (82.7)	1200 (47.2)	800 (31.5)
50 kVA with T001 input transformer	901 (2000)	2100 (82.7)	1200 (47.2)	800 (31.5)
50 kVA with T001 input and T003 bypass transformer	1216 (2700)	2100 (82.7)	1200 (47.2)	800 (31.5)

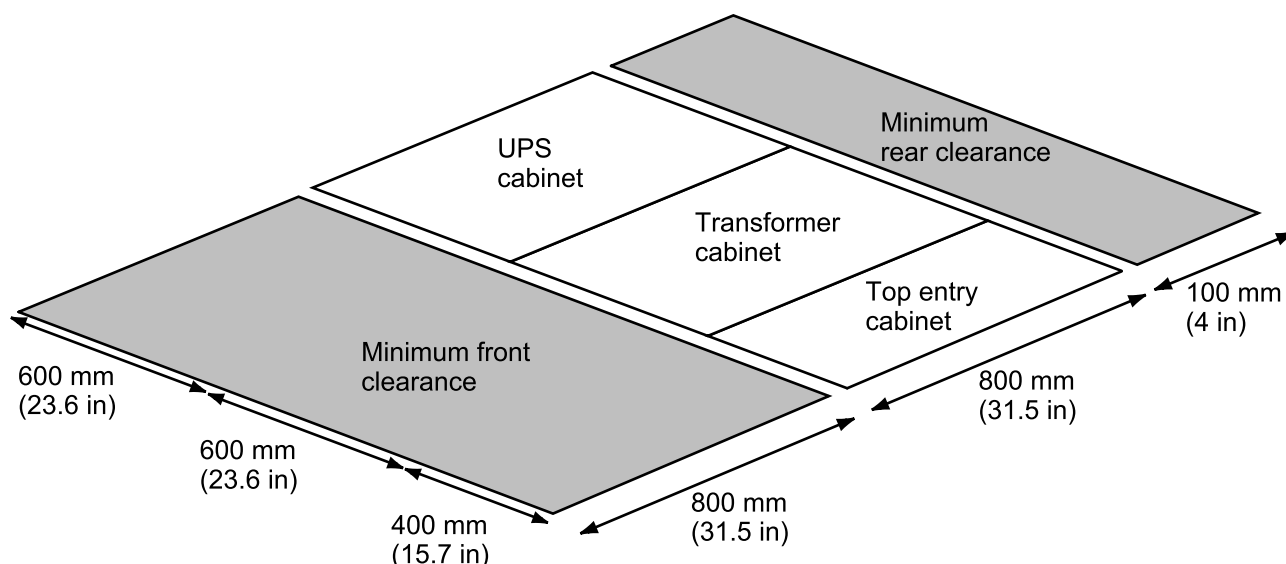
UPS Shipping Weights and Dimensions

NOTE: The UPS cabinet and the transformer cabinet are shipped together.

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
25 kVA with T001 input transformer	586 (1300)	2300 (90.5)	820 (32.3)	1082 (42.6)
25 kVA with T001 input and T003 bypass transformer	955 (2120)	2300 (90.5)	1420 (55.9)	1082 (42.6)
37.5 kVA with T001 input transformer	743 (1650)	2300 (90.5)	820 (32.3)	1082 (42.6)
37.5 kVA with T001 input and T003 bypass transformer	1203 (2670)	2300 (90.5)	1420 (55.9)	1082 (42.6)
50 kVA with T001 input transformer	932 (2070)	2300 (90.5)	1420 (55.9)	1082 (42.6)
50 kVA with T001 input and T003 bypass transformer	1248 (2770)	2300 (90.5)	1420 (55.9)	1082 (42.6)

Clearance

25–50 kVA UPS



The UPS system requires a minimum rear clearance of 100 mm (4 in). There is no side clearance required for installation.

NOTE: If the optional filters are installed in the rear of the cabinets to obtain NEMA12 (IP54) rating, a rear clearance of 914 mm (36 in) is needed for replacement of the filters.

NOTE: Clearance dimensions are published for airflow only. Consult with the local safety codes and standards for additional requirements in your local area.

75–100 kVA UPS with Transformer

UPS Weights and Dimensions

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
75 kVA with T001 input transformer	1329 (2950)	2100 (82.7)	1800 (70.9)	800 (31.5)
75 kVA with T001 input and T003 bypass transformer	1757 (3900)	2100 (82.7)	1800 (70.9)	800 (31.5)
100 kVA with T001 input transformer	1532 (3400)	2100 (82.7)	1800 (70.9)	800 (31.5)
100 kVA with T001 input and T003 bypass transformer	2095 (4650)	2100 (82.7)	1800 (70.9)	800 (31.5)

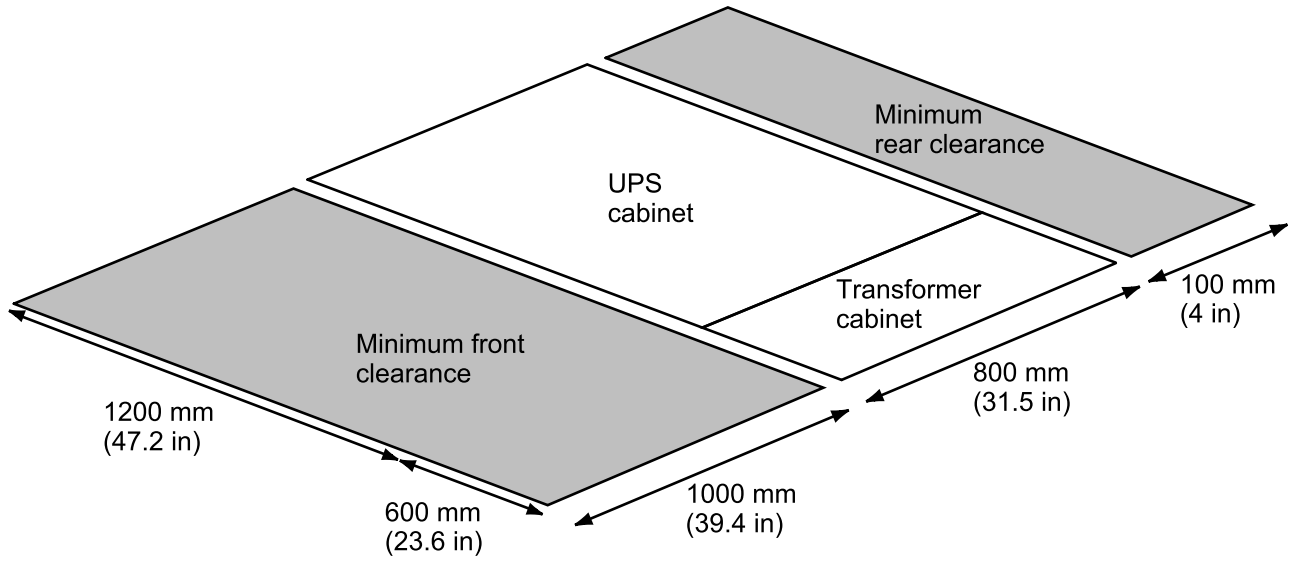
UPS Shipping Weights and Dimensions

NOTE: The UPS cabinet and transformer cabinet are shipped separately.

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
75 kVA with T001 input transformer		2300 (90.5)		1082 (42.6)
UPS cabinet	797 (1770)		1421 (55.9)	
Transformer cabinet	586 (1300)		820 (32.3)	
75 kVA with T001 input and T003 bypass transformer		2300 (90.5)		1082 (42.6)
UPS cabinet	811 (1800)		1421 (55.9)	
Transformer cabinet	1000 (2220)		820 (32.3)	
100 kVA with T001 input transformer		2300 (90.5)		1082 (42.6)
UPS cabinet	887 (1970)		1421 (55.9)	
Transformer cabinet	698 (1550)		820 (32.3)	
100 kVA with T001 input and T003 bypass transformer		2300 (90.5)		1082 (42.6)
UPS cabinet	901 (2000)		1421 (55.9)	
Transformer cabinet	1248 (2770)		820 (32.3)	

Clearance

75–100 kVA UPS



The UPS system requires a minimum rear clearance of 100 mm (4 in). There is no side clearance required for installation.

NOTE: If the optional filters are installed in the rear of the cabinets to obtain NEMA12 (IP54) rating, a rear clearance of 914 mm (36 in) is needed for replacement of the filters.

NOTE: Clearance dimensions are published for airflow only. Consult with the local safety codes and standards for additional requirements in your local area.

Top Entry Cabinet Weight and Dimensions

For top cable entry for the 25-50 kVA UPS.

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Top entry cabinet	91 (200)	2100 (82.7)	400 (15.8)	800 (31.5)

Top Entry Cabinet Shipping Weight and Dimensions

For top cable entry for the 25-50 kVA UPS.

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Top entry cabinet	114 (250)	2300 (90.6)	820 (32.3)	1082 (42.6)

Battery Cabinet Weights and Dimensions

Battery Cabinets for 25 kVA, 37.5 kVA, and 50 kVA UPSs

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Battery cabinet 150A CB 12HX100 (GUPXCB150EN100)	602 (1325)	2100 (82.7)	770 (30.3)	800 (31.5)
Battery cabinet 150A CB 12HX150 (GUPXCB150EN150)	750 (1650)	2100 (82.7)	770 (30.3)	800 (31.5)
Battery cabinet 150A CB 12HX205 (GUPXCB150EN205)	909 (2000)	2100 (82.7)	770 (30.3)	800 (31.5)
Battery cabinet 200A CB 12HX205 (GUPXCB200EN205)	909 (2000)	2100 (82.7)	770 (30.3)	800 (31.5)
Battery cabinet 150A CB UPS12-100MR (GUPXCB150CD100)	591 (1300)	2100 (82.7)	770 (30.3)	800 (31.5)
Battery cabinet 150A CB UPS12-150MR (GUPXCB150CD150)	682 (1500)	2100 (82.7)	770 (30.3)	800 (31.5)
Battery cabinet 150A CB UPS12-210MR (GUPXCB150CD210)	864 (1900)	2100 (82.7)	770 (30.3)	800 (31.5)
Battery cabinet 200A CB UPS12-210MR (GUPXCB200CD210)	864 (1900)	2100 (82.7)	770 (30.3)	800 (31.5)

Battery Cabinets for 37.5 kVA, 50 kVA, 75 kVA, and 100 kVA UPSs

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Battery cabinet 150A CB 12HX300 (GUPXCB150EN300)	1182 (2600)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 200A CB 12HX300 (GUPXCB200EN300)	1182 (2600)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 300A CB 12HX300 (GUPXCB300EN300)	1182 (2600)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 200A CB 12HX540 (GUPXCB200EN540)	1852 (4075)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 300A CB 12HX540 (GUPXCB300EN540)	1852 (4075)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 400A CB 12HX300 (GUPXCB400EN300)	1182 (2600)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 400A CB 12HX540 (GUPXCB400EN540)	1864 (4100)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 150A CB UPS12-300MR (GUPXCB150CD300)	1159 (2550)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 200A CB UPS12-300MR (GUPXCB200CD300)	1159 (2550)	2100 (82.7)	1008 (39.7)	800 (31.5)

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Battery cabinet 300A CB UPS12-300MR (GUPXCB300CD300)	1159 (2550)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 200A CB UPS12-540MR (GUPXCB200CD540)	1773 (3900)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 300A CBUPS12-540MR (GUPXCB300CD540)	1773 (3900)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 400A CB UPS12-300MR (GUPXCB400CD300)	1159 (2550)	2100 (82.7)	1008 (39.7)	800 (31.5)
Battery cabinet 400A CB UPS12-540MR (GUPXCB400CD540)	1761 (3875)	2100 (82.7)	1008 (39.7)	800 (31.5)

Battery Cabinet Shipping Weights and Dimensions

Battery Cabinets for 25 kVA, 37.5 kVA, and 50 kVA UPSs

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Battery cabinet 150A CB 12HX100 (GUPXCB150EN100)	648 (1425)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 150A CB 12HX150 (GUPXCB150EN150)	795 (1750)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 150A CB 12HX205 (GUPXCB150EN205)	955 (2100)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 200A CB 12HX205 (GUPXCB200EN205)	955 (2100)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 150A CB UPS12-100MR (GUPXCB150CD100)	636 (1400)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 150A CB UPS12-150MR (GUPXCB150CD150)	727 (1600)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 150A CB UPS12-210MR (GUPXCB150CD210)	909 (2000)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 200A CB UPS12-210MR (GUPXCB200CD210)	909 (2000)	2303 (90.7)	1372 (54)	978 (38.5)

Battery Cabinets for 37.5 kVA, 50 kVA, 75 kVA, and 100 kVA UPSs

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Battery cabinet 150A CB 12HX300 (GUPXCB150EN300)	1227 (2700)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 200A CB 12HX300 (GUPXCB200EN300)	1227 (2700)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 300A CB 12HX300 (GUPXCB300EN300)	1227 (2700)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 200A CB 12HX540 (GUPXCB200EN540)	1898 (4175)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 300A CB12HX540 (GUPXCB300EN540)	1898 (4175)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 400A CB 12HX300 (GUPXCB400EN300)	1227 (2700)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 400A CB 12HX540 (GUPXCB400EN540)	1909 (4200)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 150A CB UPS12-300MR (GUPXCB150CD300)	1205 (2650)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 200A CB UPS12-300MR (GUPXCB200CD300)	1205 (2650)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 300A CB UPS12-300MR (GUPXCB300CD300)	1205 (2650)	2303 (90.7)	1372 (54)	978 (38.5)

	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
Battery cabinet 200A CB UPS12-540MR (GUPXCB200CD540)	1818 (4000)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 300A CBUPS12-540MR (GUPXCB300CD540)	1818 (4000)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 400A CB UPS12-300MR (GUPXCB400CD300)	1205 (2650)	2303 (90.7)	1372 (54)	978 (38.5)
Battery cabinet 400A CB UPS12-540MR (GUPXCB400CD540)	1807 (3975)	2303 (90.7)	1372 (54)	978 (38.5)

Environment

	Operating	Storage
Temperature	0 °C to 40 °C (32 °F to 104 °F) 0 °C to 25 °C (32 °F to 77 °F) for batteries	-30 °C to 80 °C (-22 °F to 176 °F) -15 °C to 40 °C (5 °F to 104 °F) for batteries
Relative humidity	0-95% non-condensing	0-95% non-condensing
Elevation according to IEC 62040-3	1000 m (3280 ft): 1.000 1500 m (4921 ft): 0.975 2000 m (6561 ft): 0.950 2500 m (8202 ft): 0.925 3000 m (9842 ft): 0.900	≤ 5000 m (16404 ft) above sea-level (or in an environment with equivalent atmospheric pressure)
Audible noise (1 m (3 ft) from surface)	65 dBA at 100% load	
Protection class	UL type 1/NEMA1 (IP42)	
Color	Light gray RAL7035	

UPS without Transformer

Heat Dissipation

	25 kVA	37.5 kVA	50 kVA	75 kVA	100 kVA
Heat dissipation at 100% load (BTU/hr)	7216	10825	14032	20749	28465
Heat dissipation at 75% load (BTU/hr)	5187	7781	9927	14446	19855
Heat dissipation at 50% load (BTU/hr)	3408	5337	6421	9336	12841
Heat dissipation at 25% load (BTU/hr)	2265	3397	4270	6096	8231

25–50 kVA UPS with Transformer

Heat Dissipation

480–208 V

	25 kVA	37.5 kVA	50 kVA
Heat dissipation at 100% load (BTU/hr)	9478	14059	18536
Heat dissipation at 75% load (BTU/hr)	7426	10663	13588
Heat dissipation at 50% load (BTU/hr)	5597	7746	9373
Heat dissipation at 25% load (BTU/hr)	4524	5868	6600

600–208 V

	25 kVA	37.5 kVA	50 kVA
Heat dissipation at 100% load (BTU/hr)	9901	14693	18536
Heat dissipation at 75% load (BTU/hr)	7746	11139	14217
Heat dissipation at 50% load (BTU/hr)	5982	8313	10114
Heat dissipation at 25% load (BTU/hr)	5166	6786	7824

75–100 kVA UPS with Transformer

Heat Dissipation

480–208 V

	75 kVA	100 kVA
Heat dissipation at 100% load (BTU/hr)	27490	36235
Heat dissipation at 75% load (BTU/hr)	19914	25929
Heat dissipation at 50% load (BTU/hr)	13432	17079
Heat dissipation at 25% load (BTU/hr)	9056	10976

600–208 V

	75 kVA	100 kVA
Heat dissipation at 100% load (BTU/hr)	28119	42608
Heat dissipation at 75% load (BTU/hr)	20853	30000
Heat dissipation at 50% load (BTU/hr)	14534	20967
Heat dissipation at 25% load (BTU/hr)	10850	15203

Drawings

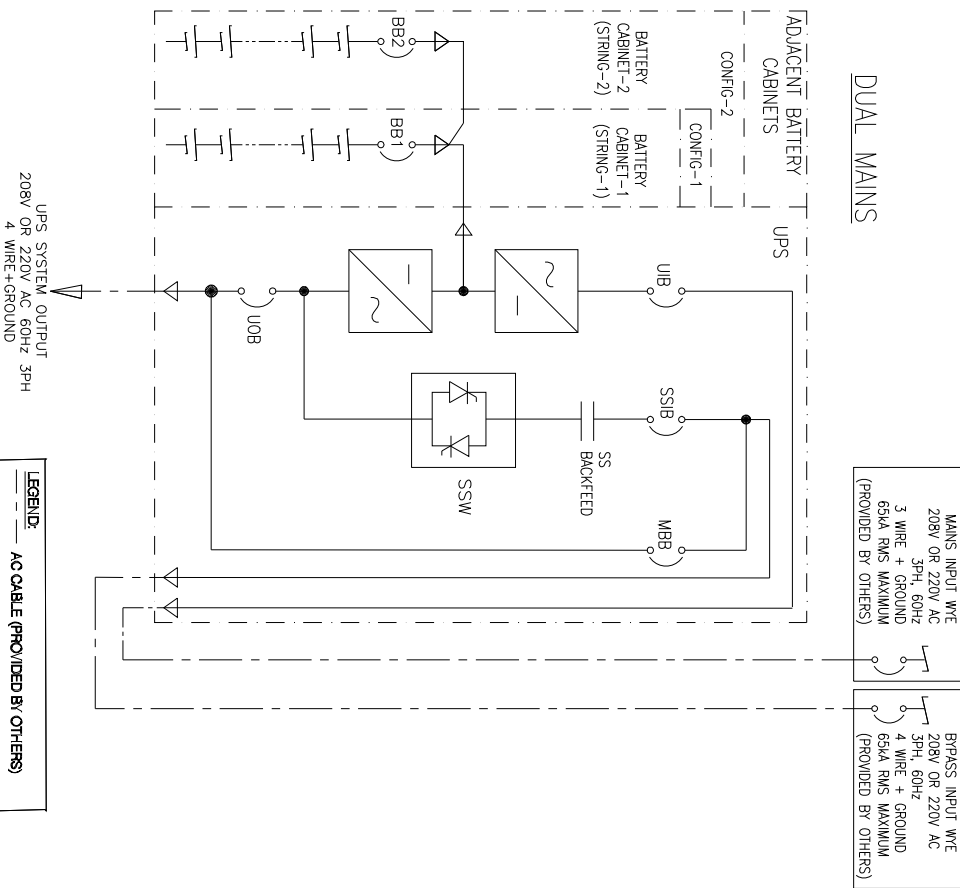
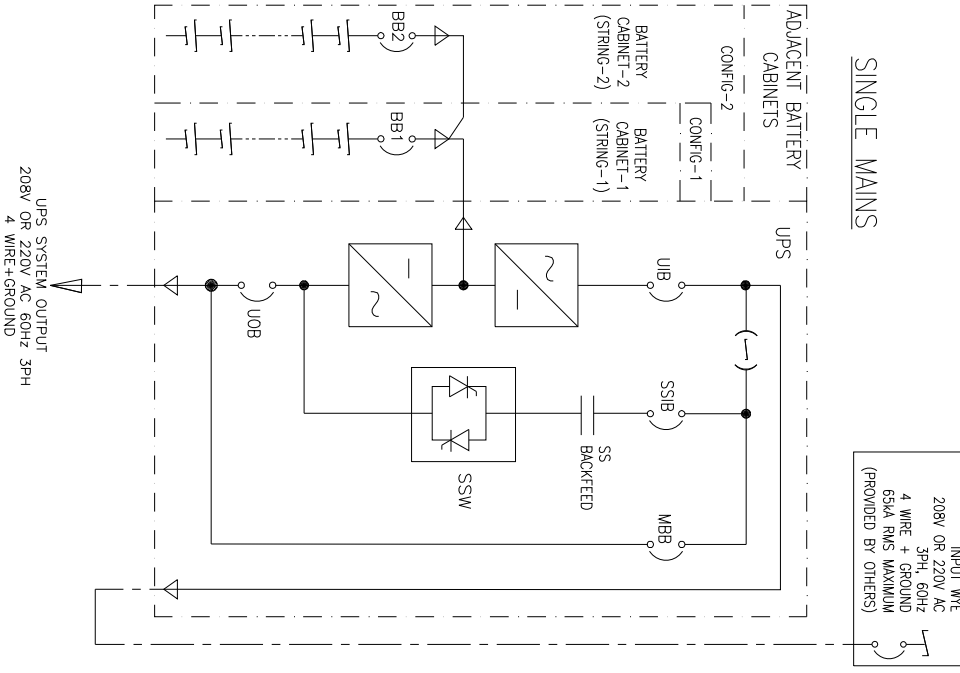
NOTE: A comprehensive set of drawings is available on the engineering website at engineer.apc.com.

NOTE: These drawings are for reference ONLY – subject to change without notice.

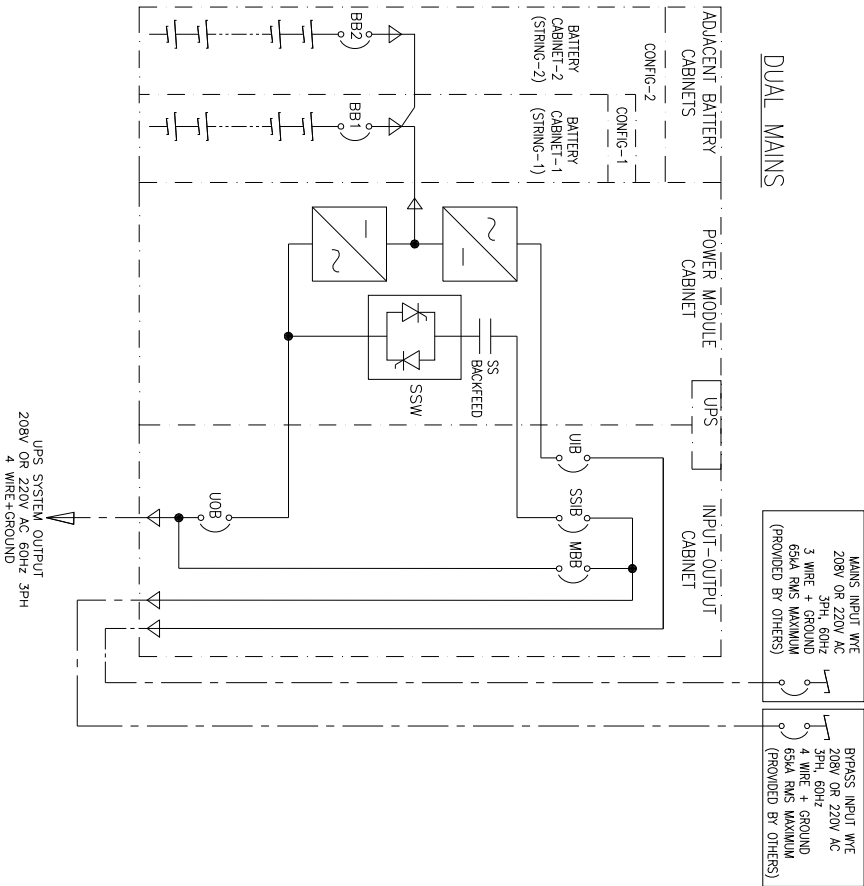
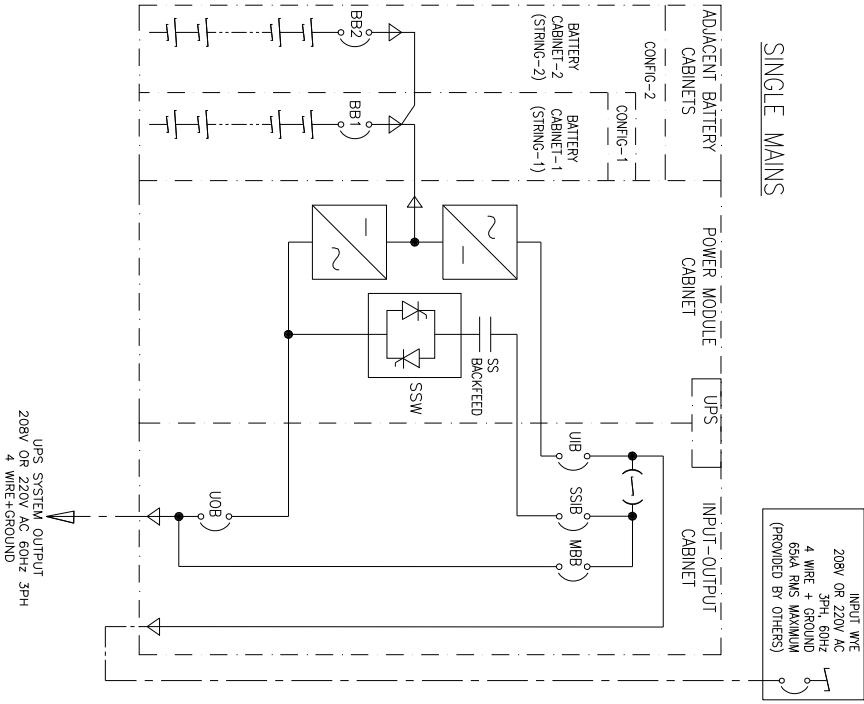
One Line Drawings for UPS without Transformer

NOTE: Shown configurations are with adjacent battery cabinets and bottom cable entry. Other configurations are available.

25-50 kVA



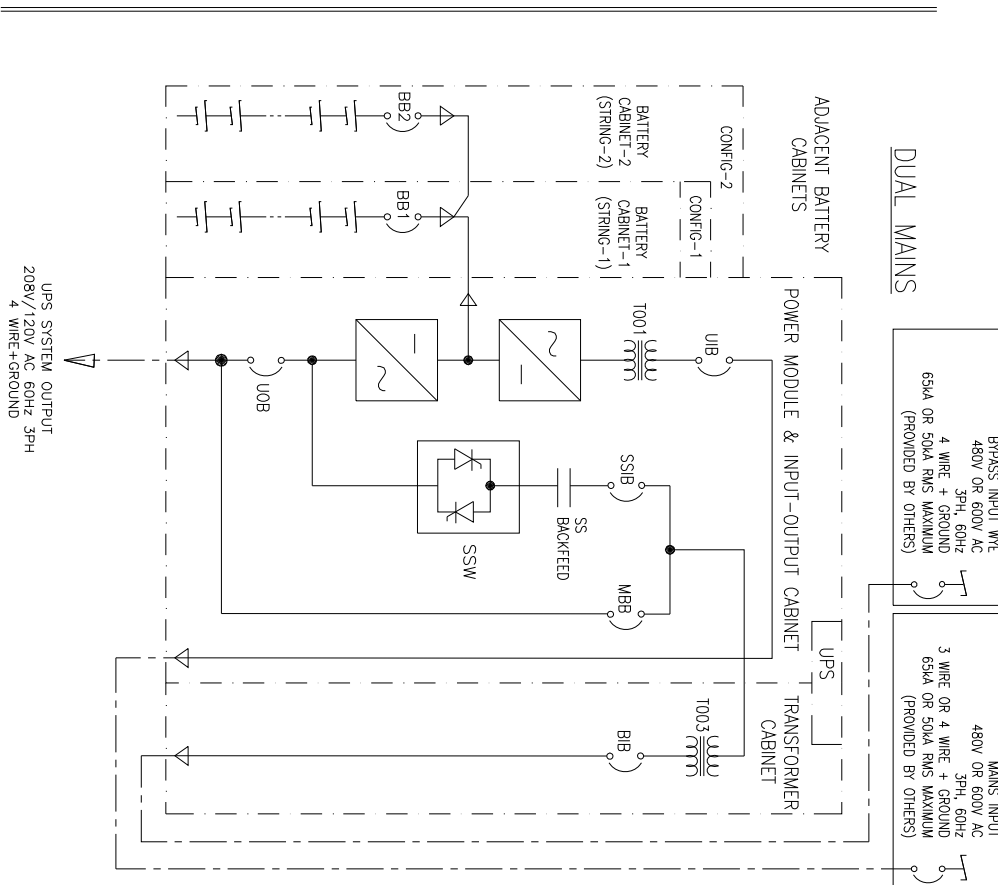
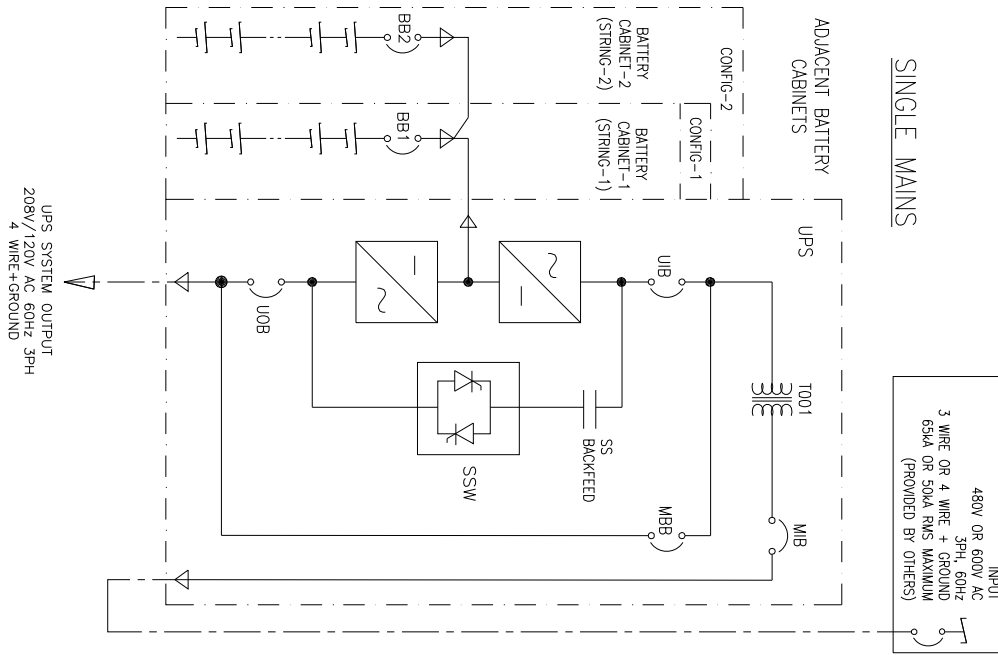
75-100 kVA



One Line Drawings for UPS with Transformer

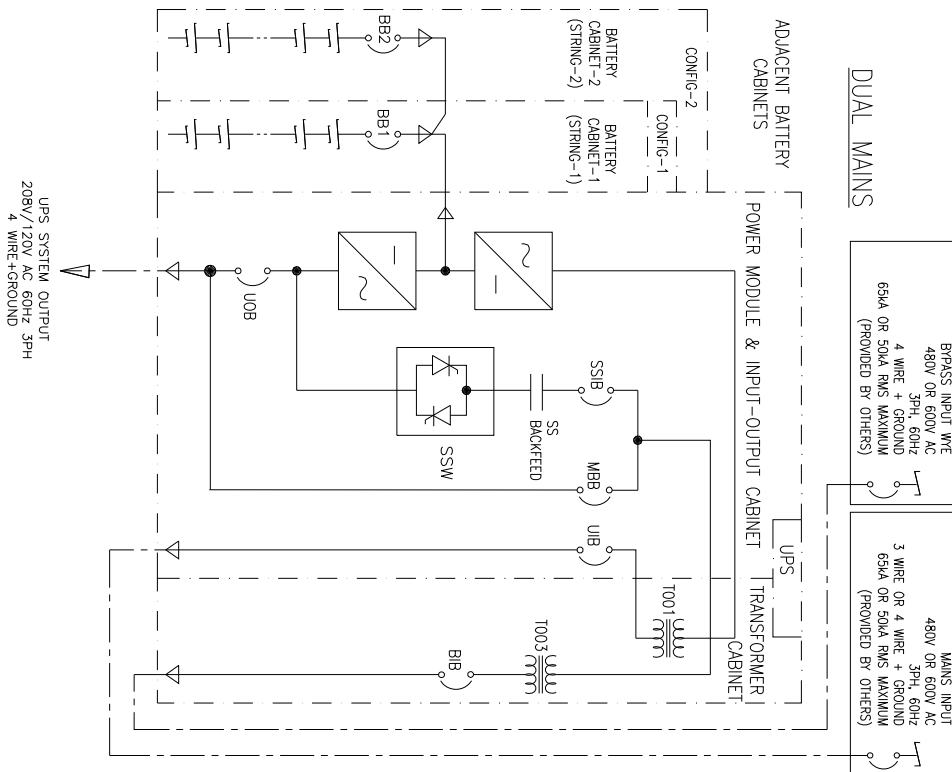
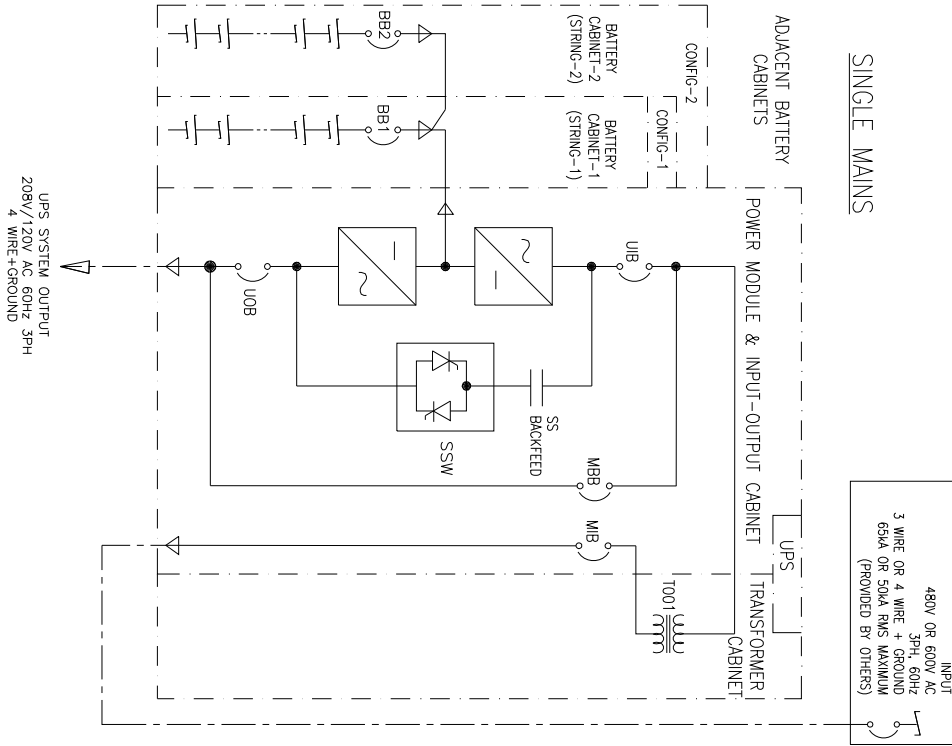
NOTE: Shown configurations are with adjacent battery cabinets and bottom cable entry. Other configurations are available.

25-37.5 kVA



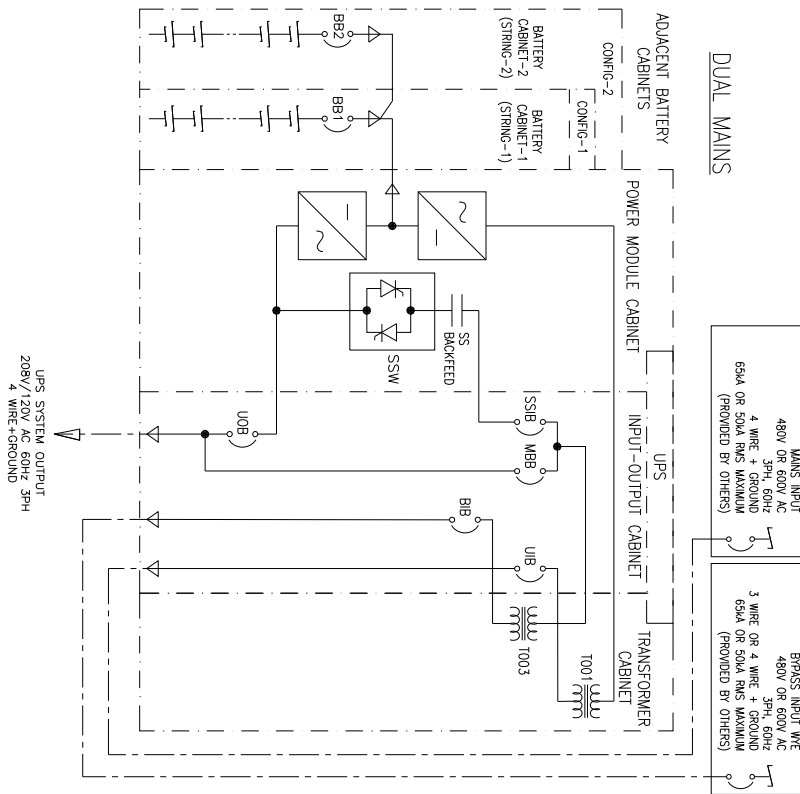
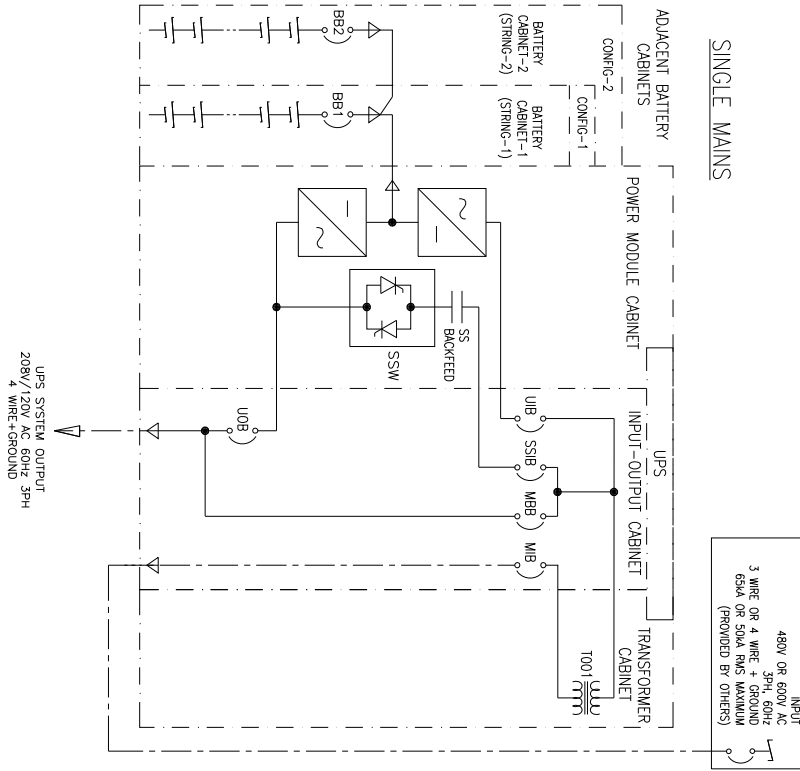
LEGEND:
--- AC CABLE (PROVIDED BY OTHERS)

50 kVA



LEGEND:
--- AC CABLE (PROVIDED BY OTHERS)

75-100 kVA



Options

- Galvanic isolation transformer:
 - Input: 480-208 V and 600-208 V
 - Bypass: 480-208 V and 600-208 V
- Battery breaker box
- Battery cabinet for both remote and adjacent connection
- Cabinet for top cable entry for the 25-50 kVA UPS cabinet
- NEMA12 (IP54) filter kit
- Seismic kit
- Communication interface
 - Additional network management card

Limited Factory Warranty

One-Year Factory Warranty

The limited warranty provided by Schneider Electric in this Statement of Limited Factory Warranty applies only to products you purchase for your commercial or industrial use in the ordinary course of your business.

Terms of Warranty

Schneider Electric warrants that the product shall be free from defects in materials and workmanship for a period of one year from the date of product start-up when start-up is performed by Schneider Electric-authorized service personnel and occurs within six months of the Schneider Electric shipment date. This warranty covers repairing or replacing any defective parts including on-site labor and travel. In the event that the product fails to meet the foregoing warranty criteria, the warranty covers repairing or replacing defective parts at the sole discretion of Schneider Electric for a period of one year from the shipment date. For Schneider Electric cooling solutions, this warranty does not cover circuit breaker resetting, loss of refrigerant, consumables, or preventive maintenance items. Repair or replacement of a defective product or part thereof does not extend the original warranty period. Any parts furnished under this warranty may be new or factory-remanufactured.

Non-transferable Warranty

This warranty is extended to the first person, firm, association or corporation (herein referred to by "You" or "Your") for whom the Schneider Electric product specified herein has been purchased. This warranty is not transferable or assignable without the prior written permission of Schneider Electric.

Assignment of Warranties

Schneider Electric will assign you any warranties which are made by manufacturers and suppliers of components of the Schneider Electric product and which are assignable. Any such warranties are assigned "AS IS" and Schneider Electric makes no representation as to the effectiveness or extent of such warranties, assumes no responsibility for any matters which may be warranted by such manufacturers or suppliers and extends no coverage under this Warranty to such components.

Drawings, Descriptions

Schneider Electric warrants for the warranty period and on the terms of the warranty set forth herein that the Schneider Electric product will substantially conform to the descriptions contained in the Schneider Electric Official Published Specifications or any of the drawings certified and agreed to by contract with Schneider Electric if applicable thereto ("Specifications"). It is understood that the Specifications are not warranties of performance and not warranties of fitness for a particular purpose.

Exclusions

Schneider Electric shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was

caused by end user or any third person misuse, negligence, improper installation or testing. Further, Schneider Electric shall not be liable under the warranty for unauthorized attempts to repair or modify wrong or inadequate electrical voltage or connection, inappropriate on-site operation conditions, corrosive atmosphere, repair, installation, start-up by non-Schneider Electric designated personnel, a change in location or operating use, exposure to the elements, Acts of God, fire, theft, or installation contrary to Schneider Electric recommendations or specifications or in any event if the Schneider Electric serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

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