Easy UPS 3L

250-600 kVA

Technical Specifications

6/2021

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Table of Contents

Important Safety Instructions — SAVE THESE INSTRUCTIONS 5
- Electromagnetic Compatibility 6
- Safety Precautions 6
  - Electrical Safety 8
  - Battery Safety 9

Model List 11

System Overview 12
- User Interface 12
  - Status LEDs 12
- Overview of Single UPS 13
- Overview of 1+1 Redundant Parallel System with Common Battery Bank 14
- Overview of Parallel System 15

Technical Data 16
- Input Power Factor 16
- Efficiency 16
- Derating Due to Load Power Factor 17
- End of Discharge Voltage 17
- Battery Runtimes 18
  - Classic Battery Runtimes 18
- Compliance 19
- Communication and Management 19

Facility Planning for 250-400 kVA UPSs for External Batteries 20
- Input Specifications 20
- Bypass Specifications 20
- Output Specifications 21
- Battery Specifications 22
- Recommended Upstream Protection 22
- Recommended Cables Sizes 23
- Recommended Bolts and Cable Lugs 24
- Torque Specifications 24
- UPS Weights and Dimensions 25
- UPS Shipping Weights and Dimensions 25
- Clearance 25
- Environmental 26
  - Heat Dissipation 26

Facility Planning for 500-600 kVA UPSs for External Batteries 27
- Input Specifications 27
- Bypass Specifications 27
- Output Specifications 28
- Battery Specifications 29
- Recommended Upstream Protection 29
- Recommended Cables Sizes 30

Recommended Bolts and Cable Lugs 31
Torque Specifications 31
UPS Weights and Dimensions 32
UPS Shipping Weights and Dimensions 32
Clearance 32
Environmental 33
Heat Dissipation 33
Requirements for a Third Party Battery Solution 34
Third Party Battery Breaker Requirements 34
Guidance for Organizing Battery Cables 35
Weights and Dimensions 36
Classic Battery Cabinet Weights and Dimensions 36
Classic Battery Cabinet Shipping Weights and Dimensions 36
Battery Breaker Box Weight and Dimensions 36
Battery Breaker Box Shipping Weight and Dimensions 36
Battery Breaker Kit Weight and Dimensions 37
Battery Breaker Kit Shipping Weight and Dimensions 37
Maintenance Bypass Panel Weights and Dimensions 37
Maintenance Bypass Panel Shipping Weights and Dimensions 37
Drawings 38
Easy UPS 3L UPS for External Batteries – Single Mains System 38
Easy UPS 3L UPS for External Batteries – Dual Mains System 39
Options 40
Default Settings 40
Limited Factory Warranty 42

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.

Electromagnetic Compatibility

NOTICE

RISK OF ELECTROMAGNETIC DISTURBANCE

This is a product Category C3 according to IEC 62040-2. This is a product for commercial and industrial applications in the second environment - installation restrictions or additional measures may be needed to prevent disturbances. The second environment includes all commercial, light industry, and industrial locations other than residential, commercial, and light industrial premises directly connected without intermediate transformer to a public low-voltage mains supply. The installation and cabling must follow the electromagnetic compatibility rules, e.g.:

- the segregation of cables,
- the use of shielded or special cables when relevant,
- the use of grounded metallic cable tray and supports.

Failure to follow these instructions can result in equipment damage.

Safety Precautions

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All safety instructions in this document must be read, understood and followed.

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

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Read all instructions in the Installation Manual before installing or working on this UPS system.

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

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not install the UPS system until all construction work has been completed and the installation room has been cleaned.

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

⚠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 breakers, battery 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**
- NEC NFPA 70, **or**
- Canadian Electrical Code (C22.1, Part 1)

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 indoor environment free of conductive contaminants and humidity.
- Install the UPS system on a non-flammable, 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.

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not drill or cut holes for cables or conduits with the gland plates installed and do not drill or cut holes in close proximity to the UPS.

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

⚠WARNING

HAZARD OF ARC FLASH

Do not make mechanical changes to the product (including removal of cabinet parts or drilling/cutting of holes) that are not described in the Installation Manual.

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

NOTICE

RISK OF OVERHEATING

Respect the space 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.

Electrical Safety

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- Turn off all power supplying the UPS system before working on or inside the equipment.
- Before working on the UPS system, check for hazardous voltage between all terminals including the protective earth.
- The UPS contains an internal energy source. Hazardous voltage can be present even when disconnected from the mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that mains and batteries are disconnected. Wait five minutes before opening the UPS to allow the capacitors to discharge.
- A disconnection device (e.g. disconnection circuit breaker or switch) must be installed to enable isolation of the system from upstream power sources in accordance with local regulations. The disconnection device must be easily accessible and visible.
- The UPS must be properly earthed/grounded and due to a high leakage current, the earthing/grounding conductor must be connected first.

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

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

In systems where backfeed protection is not part of the standard design, an automatic isolation device (backfeed protection option or other device meeting the requirements of IEC/EN 62040–1 **or** UL1778 5th Edition – depending on which of the two standards apply to your local area) must be installed to prevent hazardous voltage or energy at the input terminals of the isolation device. The device must open within 15 seconds after the upstream power supply fails and must be rated according to the specifications.

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

When the UPS input is connected through external isolators that, when opened, isolate the neutral or when the automatic backfeed isolation is provided external to the equipment or is connected to an IT power distribution system, a label must be fitted at the UPS input terminals, and on all primary power isolators installed

remote from the UPS area and on external access points between such isolators and the UPS, by the user, displaying the following text (or equivalent in a language which is acceptable in the country in which the UPS system is installed):

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Risk of Voltage Backfeed. Before working on this circuit: Isolate the UPS and check for hazardous voltage between all terminals including the protective earth.

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

⚠CAUTION

RISK OF ELECTRICAL DISTURBANCE

This product can cause a DC current in the PE conductor. Where a residual current-operated protective device (RCD) is used for protection against electrical shock, only an RCD of Type B is allowed on the supply side of this product.

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

Battery Safety

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Battery circuit breakers must be installed according to the specifications and requirements as defined by Schneider Electric.
- Servicing of batteries must only be performed or supervised by qualified personnel knowledgeable of batteries and the required precautions. Keep unqualified personnel away from batteries.
- Disconnect charging source prior to connecting or disconnecting battery terminals.
- Do not dispose of batteries in a fire as they can explode.
- Do not open, alter, or mutilate batteries. Released electrolyte is harmful to the skin and eyes. It may be toxic.

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

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Batteries can present a risk of electric shock and high short-circuit current. The following precautions must be observed when working on batteries

- Remove watches, rings, or other metal objects.
- Use tools with insulated handles.
- Wear protective glasses, gloves and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect the charging source prior to connecting or disconnecting battery terminals.
- Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source from ground. Contact with any part of a grounded battery can result in electric shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance (applicable to equipment and remote battery supplies not having a grounded supply circuit).

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

⚠⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

When replacing batteries, always replace with the same type and number of batteries or battery packs.

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

⚠CAUTION

RISK OF EQUIPMENT DAMAGE

- Mount the batteries in the UPS system, but do not connect the batteries until the UPS system is ready to be powered up. The time duration from battery connection until the UPS system is powered up must not exceed 72 hours or 3 days.
- Batteries must not be stored more than six months due to the requirement of recharging. If the UPS system remains de-energized for a long period, we recommend that you energize the UPS system for a period of 24 hours at least once every month. This charges the batteries, thus avoiding irreversible damage.

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

Model List

UPS

- E3LUPS250KHS: Easy UPS 3L 250 kVA 400 V, Start-up 5x8
- E3LUPS300KHS: Easy UPS 3L 300 kVA 400 V, Start-up 5x8
- E3LUPS400KHS: Easy UPS 3L 400 kVA 400 V, Start-up 5x8
- E3LUPS500KHS: Easy UPS 3L 500 kVA 400 V, Start-up 5x8
- E3LUPS600KHS: Easy UPS 3L 600 kVA 400 V, Start-up 5x8

Battery Solutions

- E3MCBC7C: Easy UPS 3M Classic Battery Cabinet with batteries, IEC, 700 mm wide - Config C
- E3MCBC7D: Easy UPS 3M Classic Battery Cabinet with batteries, IEC, 700 mm wide - Config D
- E3MCBC10A: Easy UPS 3M Classic Battery Cabinet with batteries, IEC, 1000 mm wide - Config A
- E3MCBC10B: Easy UPS 3M Classic Battery Cabinet with batteries, IEC, 1000 mm wide - Config B
- E3MCBC10C: Easy UPS 3M Classic Battery Cabinet with batteries, IEC, 1000 mm wide - Config C
- E3MCBC10D: Easy UPS 3M Classic Battery Cabinet with batteries, IEC, 1000 mm wide - Config D
- E3MCBC10E: Easy UPS 3M Classic Battery Cabinet with batteries, IEC, 1000 mm wide - Config E
- E3MBBB100K200H: Battery Breaker Box 630 A, one circuit breaker for Easy UPS 3M/3L
- E3MBBK100K200H: Battery Breaker Kit 630 A, one circuit breaker for Easy UPS 3M/3L

Maintenance Bypass Panel

- E3MBP60K400H: Maintenance Bypass Panel for Easy UPS 3M 60-200 kVA and Easy UPS 3L 250-400 kVA

Bottom Entry Cabinet

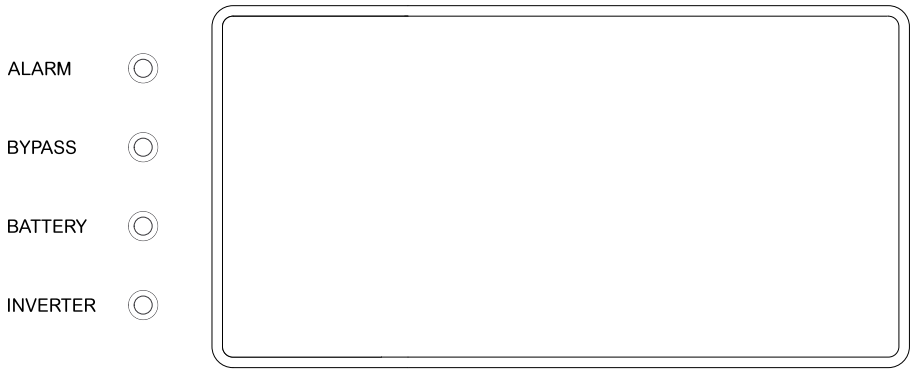
- GVBEC: Bottom entry cabinet for Galaxy VL and Easy UPS 3L. Only applicable for Easy UPS 3L 500-600 kVA (E3LUPS500KHS and E3LUPS600KHS).

Options

- E3SOPT001: Easy UPS 3 Series Network Card
- E3LOPT001: Easy UPS 3L Parallel Kit with 20m cable
- E3LOPT002: Synchronization Kit with 20m cable for Easy UPS 3M/3L
- E3MOPT005: Easy UPS 3M cold start kit for 60-200 kVA

System Overview

User Interface

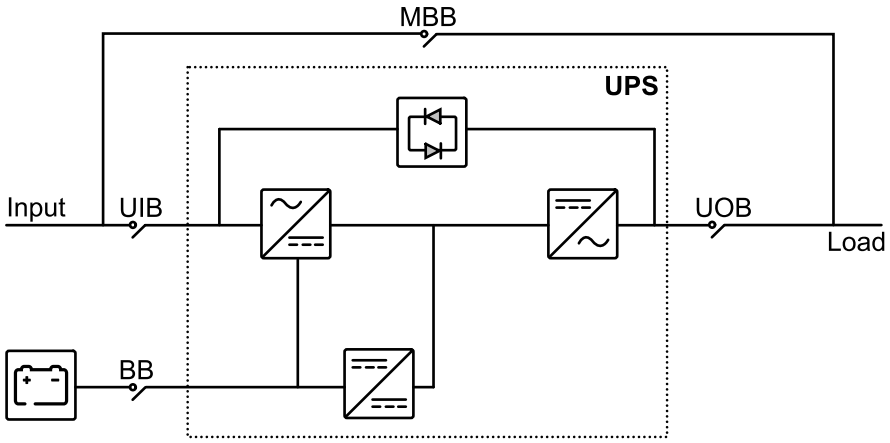


Status LEDs

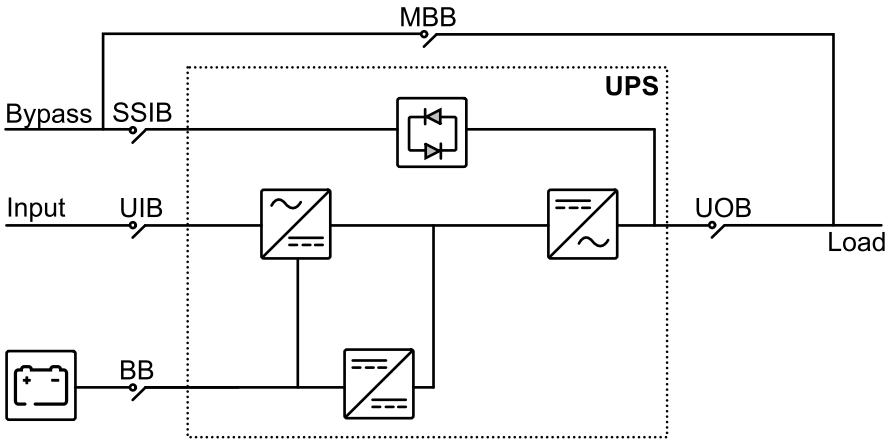
LED	State	Description
ALARM	Steady or flashing red	Critical alarm
	Steady or flashing yellow	Warning alarm
	Off	No alarm condition
BYPASS	Steady yellow	The load is supplied by the bypass source
	Flashing yellow	There is an alarm condition on the bypass source
	Off	The load is not supplied by the bypass source
BATTERY	Steady yellow	The load is supplied by the battery source
	Flashing yellow	The battery source is unavailable
	Off	The load is not supplied by the battery source
INVERTER	Steady green	Inverter on
	Off	Inverter off

Overview of Single UPS

Single Mains System

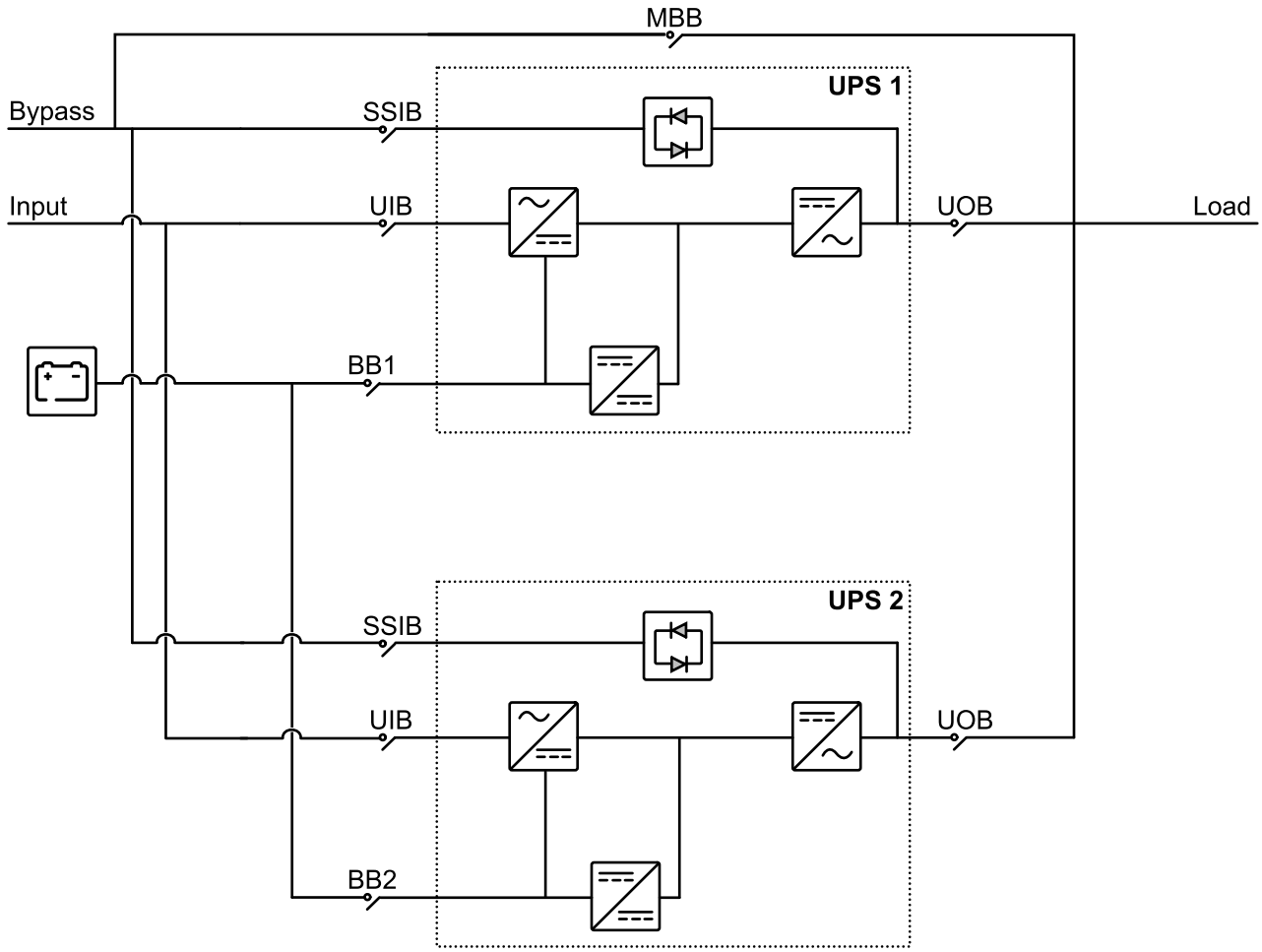


Dual Mains System



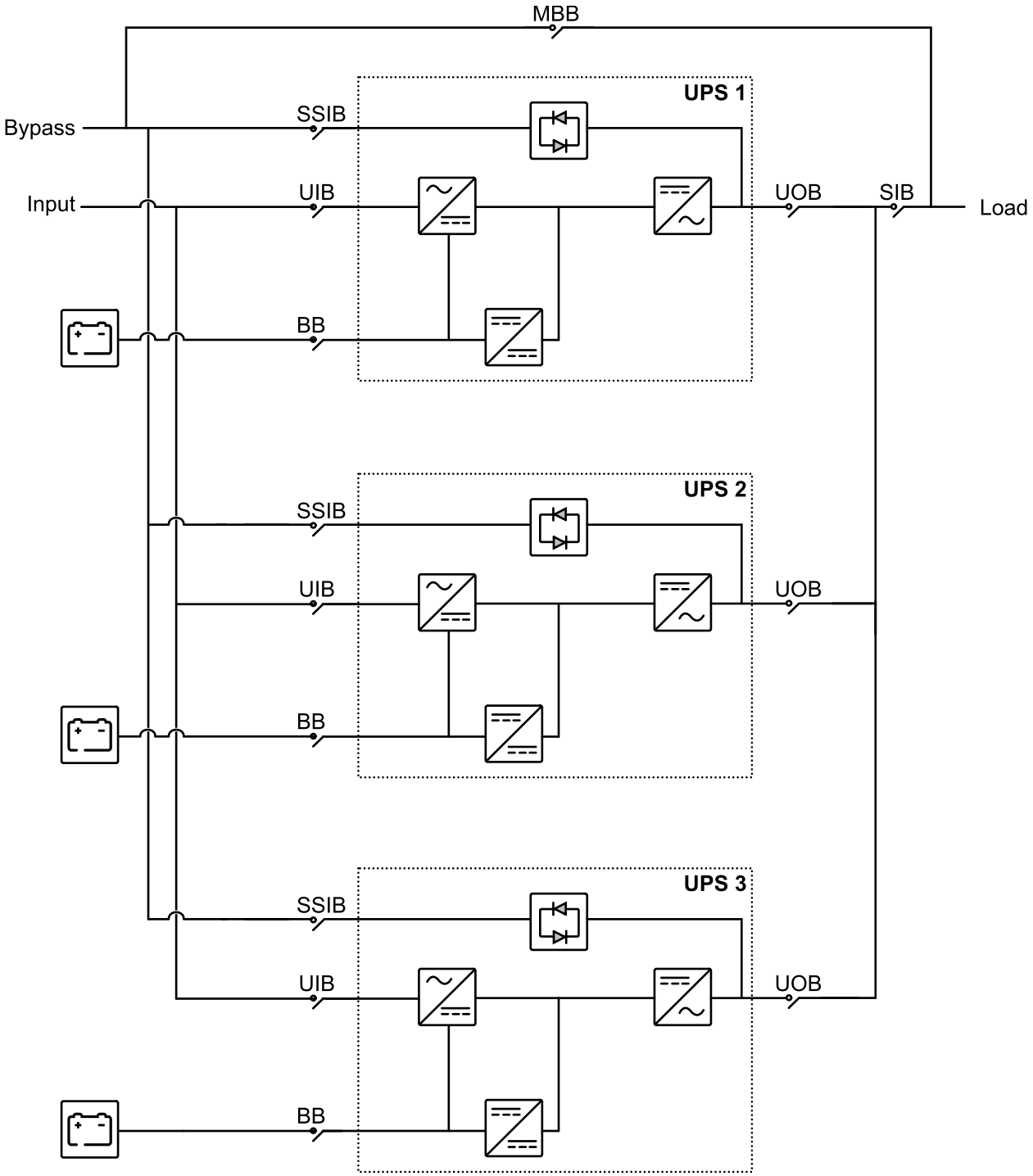
UIB	Unit input breaker
SSIB	Static switch input breaker
UOB	Unit output breaker
MBB	Maintenance bypass breaker
BB	Battery breaker

Overview of 1+1 Redundant Parallel System with Common Battery Bank



UIB	Unit input breaker
SSIB	Static switch input breaker
UOB	Unit output breaker
MBB	Maintenance bypass breaker
BB1	Battery breaker 1
BB2	Battery breaker 2

Overview of Parallel System



UIB	Unit input breaker
SSIB	Static switch input breaker
UOB	Unit output breaker
MBB	Maintenance bypass breaker
SIB	System isolation breaker
BB	Battery breaker

Technical Data

Input Power Factor

The values are at a 400 V 50 Hz linear load.

UPS rating	250 kVA	300 kVA	400 kVA	500 kVA	600 kVA
25% load	0.99	0.99	0.99	0.98	0.98
50% load	0.99	0.99	0.99	0.99	0.99
75% load	0.99	0.99	0.99	0.99	0.99
100% load	0.99	0.99	0.99	0.99	0.99

Efficiency

The values are at a 400 V 50 Hz linear load at output power factor 1.

Normal Mode

UPS rating	250 kVA	300 kVA	400 kVA	500 kVA	600 kVA
25% load	95.06%	95.13%	95.39%	95.42%	95.36%
50% load	95.49%	95.54%	95.50%	95.45%	95.58%
75% load	95.08%	95.17%	95.09%	94.90%	95.06%
100% load	94.54%	94.56%	94.57%	94.16%	94.24%

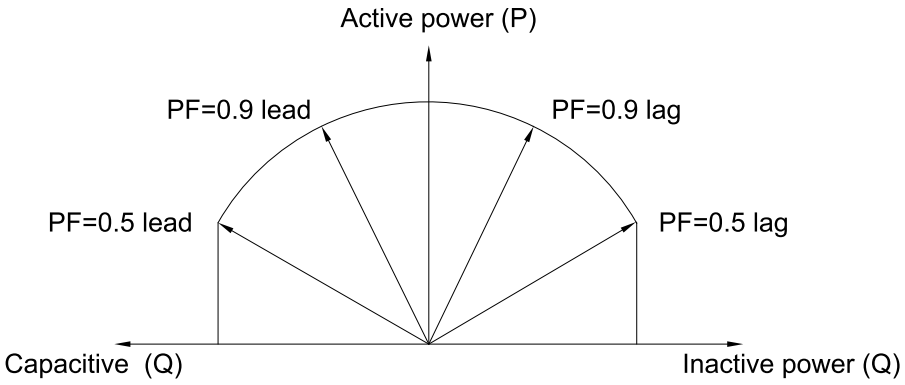
ECO mode

UPS rating	250 kVA	300 kVA	400 kVA	500 kVA	600 kVA
25% load	98.92%	99.07%	98.97%	99.02%	98.91%
50% load	99.30%	98.99%	99.26%	99.27%	99.28%
75% load	99.35%	99.03%	99.32%	99.35%	99.37%
100% load	99.40%	99.05%	99.36%	99.35%	99.42%

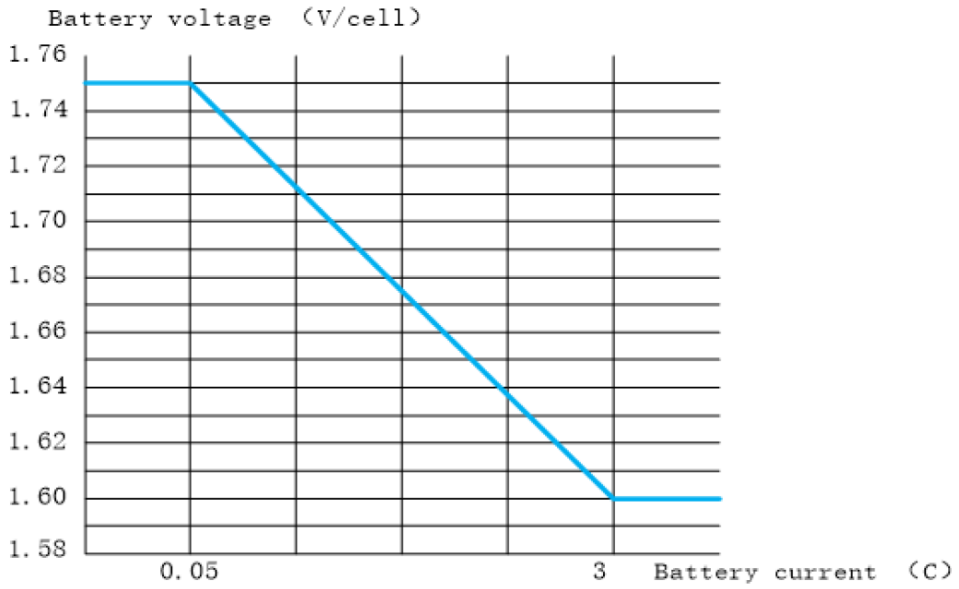
Battery operation

UPS rating	250 kVA	300 kVA	400 kVA	500 kVA	600 kVA
25% load	94.19%	94.37%	94.30%	94.46%	94.80%
50% load	94.82%	95.03%	95.04%	95.18%	95.07%
75% load	94.79%	94.75%	94.70%	94.81%	94.62%
100% load	94.21%	94.19%	94.28%	94.29%	94.34%

Derating Due to Load Power Factor



End of Discharge Voltage



Battery Runtimes

Classic Battery Runtimes

Battery runtimes are listed in minutes.

Battery runtimes are estimated values based on battery manufacturer data for operation at 25 °C.

Please note that not all battery solutions are available for all UPS ratings due to:

- The specific battery solution would provide less than 5 minutes runtime with the specific UPS.

UPS rating	**250 kVA**				**300 kVA**				**400 kVA**			
Power factor	**1**											
	25% load	**50% load**	**75% load**	**100% load**	**25% load**	**50% load**	**75% load**	**100% load**	**25% load**	**50% load**	**75% load**	**100% load**
E3MCBC10B	21	6.8										
E3MCBC10C	24	8.3										
E3MCBC10D	36.5	15	8.3	5	29	11.5	6.1		20	7.5		
E3MCBC10E	52	21	11	6.7	41.5	16	8.3		28.5	10		
2 x E3MCBC7D	26	10	5.4		20.5	8						
2 x E3MCBC10A	36.5	15	8.3	5	28.5	11	5.9		20	7.5		
2 x E3MCBC10B	52	21	11	6.7	41.5	16	8.3		28.5	10		
2 x E3MCBC10C	59.5	24.5	13.5	8.2	47.5	19	10	5.6	32.5	12	5.7	
2 x E3MCBC10D	83.5	37	22	15	67.5	29.5	17.5	11.5	48	20.5	11.5	7.4
2 x E3MCBC10E	120	52.5	31	21	97	42	24.5	16	68.5	28.5	16	10
3 x E3MCBC7C	26.5	10.5	5.5		21	8						
3 x E3MCBC7D	43	18	10	6.5	34.5	14	8		24	9.5		
3 x E3MCBC10A	59.5	26	15	9.9	47	20	11	7.2	33.5	13.5	7.5	
3 x E3MCBC10B	85.5	36.5	21	13.5	68.5	28.5	16	10	48	19	10	5.8
3 x E3MCBC10C	97	42	24.5	16	78	33	19	12	55	22.5	12	7.2
3 x E3MCBC10D	130	60	37	25.5	105	48.5	29.5	20	77.5	34	20.5	13.5
3 x E3MCBC10E	190	86.5	52.5	36	155	69.5	41.5	28.5	110	48.5	28.5	19

UPS rating	**500 kVA**				**600 kVA**			
Power factor	**1**							
	25% load	**50% load**	**75% load**	**100% load**	**25% load**	**50% load**	**75% load**	**100% load**
E3MCBC10E	21	6.8						
2 x E3MCBC10B	21	6.8						
2 x E3MCBC10C	24.5	8.3						
2 x E3MCBC10D	37	15	8.3		29.5	11.5	6.1	
2 x E3MCBC10E	52.5	21	11	6.7	41.5	16	8.3	
3 x E3MCBC7C								
3 x E3MCBC7D	18	6.8						
3 x E3MCBC10A	25.5	10	5		20	7.5		
3 x E3MCBC10B	36.5	13.5	6.7		28.5	10		
3 x E3MCBC10C	41.5	16	8.3		33	12	5.7	
3 x E3MCBC10D	60	26	15	9.9	48	20.5	11.5	7.4
3 x E3MCBC10E	86	36.5	21	13.5	69	28.5	16	10

Compliance

Safety	IEC 62040-1:2017, Edition 2.0, Uninterruptible power systems (UPS) – Part 1: Safety requirements IEC 62040-1: 2008-6, 1st edition, Uninterruptible Power Systems (UPS) – Part 1: General and safety requirements for UPS IEC 62040-1:2013-01, 1st edition amendment 1
EMC	IEC 62040-2:2016, Edition 3.0, Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements. IEC 62040-2:2005-10, 2nd edition, Uninterruptible Power Systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements
Performance	IEC 62040-3: 2011-03, 2nd edition Uninterruptible Power Systems (UPS) - Part 3: Method of specifying the performance and test requirements
Environmental	IEC 62040-4: 2013-04, 1st edition Uninterruptible Power Systems (UPS) - Part 4: Environmental aspects – Requirements and reporting
Markings	CE, RCM, EAC, WEEE
Transportation	ISTA 2B
Pollution degree	2
Overvoltage category	III
Earthing system	TN-S, TN-C, TT, or IT

Communication and Management

- User interface with status LEDs and display
- RS485
- SNMP (options)
- Dry contacts
- USB

Facility Planning for 250-400 kVA UPSs for External Batteries

Input Specifications

UPS rating	**250 kVA**			**300 kVA**			**400 kVA**		
Voltage (V)	**380**	**400**	**415**	**380**	**400**	**415**	**380**	**400**	**415**
Connections	L1, L2, L3, N, PE								
Input voltage range (V)	323-477 (full load)								
Frequency range (Hz)	40-70								
Nominal input current (A)	404	384	370	485	461	444	647	614	592
Maximum input current (A)	474	451	434	568	540	520	757	719	693
Input current limitation (A)	600			720			960		
Total harmonic distortion (THDI)	<3% for linear loads <5% for non-linear loads								
Input power factor	>0.99								
Maximum short circuit rating	Icc=35 kA								
Ramp-in	7 seconds								

Bypass Specifications

UPS rating	**250 kVA**			**300 kVA**			**400 kVA**		
Voltage (V)	**380**	**400**	**415**	**380**	**400**	**415**	**380**	**400**	**415**
Connections	L1, L2, L3, N, PE								
Overload capacity	≤115% continuous 125% for 10 minutes 150% for 1 minute								
Minimum bypass voltage (V)	209	221	228	209	221	228	209	221	228
Maximum bypass voltage (V)	475	480	477	475	480	477	475	480	477
Frequency (Hz)	50 or 60								
Frequency range (%)	±1, ±2, ±4, ±5, ±10. Default is ±10 (user selectable).								
Nominal bypass current (A)	384	364	351	460	437	422	614	583	562
Maximum short circuit rating	Icc=35 kA								

Output Specifications

UPS rating	**250 kVA**			**300 kVA**			**400 kVA**		
Voltage (V)	**380**	**400**	**415**	**380**	**400**	**415**	**380**	**400**	**415**
Connections	L1, L2, L3, N, PE								
Overload capacity[1]	105% continuous 125% for 10 minutes 150% for 1 minute								
Output voltage regulation	±1%								
Dynamic load response	20 milliseconds								
Output power factor	1								
Nominal output current (A)	380	361	348	456	433	417	608	577	556
Total harmonic distortion (THDU)	<2% at 100% linear load <4% at 100% non-linear load								
Output frequency (Hz)	50 or 60								
Slew rate (Hz/sec)	Programmable: 0.5 to 2.0 Default is 0.5								
Output performance classification (according to IEC/EN62040-3)	VFI-SS-111								
Load power factor	0.5 leading to 0.5 lagging without derating								
Output short circuit current (inverter)	630 A/200 ms			820 A/200 ms			1000 A/200 ms		

1. At 30 °C and output power factor 0.9.

Battery Specifications

NOTE: The UPS supports 36-50 battery blocks.

UPS rating	250 kVA	300 kVA	400 kVA
Max. charging power in % of output power	24		
Maximum charging power (kW)	60	72	96
Nominal battery voltage (VDC)	±216 to ±300		
Nominal float voltage (VDC)	±243 to ±337.5		
End of discharge voltage (full load) (VDC)	±172.8 to ±240		
Battery current at full load and nominal battery voltage (A)	615-443	738-531	985-709
Battery current at full load and minimum battery voltage (A)	769-554	923-664	1231-886
Temperature compensation (per cell)[2]	Programmable from 0 to 7 mV/°C. Default is 0 mV/°C.		
Ripple current	<5% C10		

Recommended Upstream Protection

NOTE: For local directives which require 4-pole circuit breakers: If neutral conductor is expected to carry a high current, due to line-neutral non-linear load, the circuit breaker must be rated according to expected neutral current.

UPS rating	250 kVA		300 kVA		400 kVA	
	Input	Bypass	Input	Bypass	Input	Bypass
Breaker type	NSX630F Mic 2.3 (LV432877)	NSX630F Mic 2.3 (LV432877)	NS630bN Mic 2.0 (33463/ NS33463)	NS630bN Mic 2.0 (33463/ NS33463)	NS800N Mic 2.0 (33469/ NS33469)	NS800N Mic 2.0 (33469/ NS33469)
In setting	Io=500	Io=500	1	1	1	1
Ir setting	0.95	0.9	0.9	0.9	0.95	0.9
Im setting	Isd=1.5-10	Isd=1.5-10	Isd=1.5-10	Isd=1.5-10	Isd=1.5-10	Isd=1.5-10

2. If the temperature is above 25 °C. No compensation below 25 °C.

Recommended Cables Sizes

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All wiring must comply with all applicable national and/or electrical codes. The maximum allowable cable size is 240 mm².

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

Cable sizes in this manual are based on table A.52-5 of IEC 60364-5-52 with the following assertions:

- 90 °C conductors
- An ambient temperature of 30 °C
- Use of copper conductors
- Installation method C

PE size is based on table 54.3 of IEC 60364-4-54.

If the ambient temperature is greater than 30 °C, larger conductors are to be used in accordance with the correction factors of the IEC.

NOTE: Battery cables are sized according to 36 battery blocks. Contact Schneider Electric for cable sizes for systems with more than 36 battery blocks.

250 kVA UPS

	Cable Size per Phase (mm²)	Neutral Cable Size (mm²)	PE Cable Size (mm²)
Input	2 x 120	2 x 120	120
Bypass	2 x 120	2 x 120	120
Output	2 x 120	2 x 120	120
Battery	2 x 185	2 x 185	185

300 kVA UPS

	Cable Size per Phase (mm²)	Neutral Cable Size (mm²)	PE Cable Size (mm²)
Input	2 x 150	2 x 150	150
Bypass	2 x 150	2 x 150	150
Output	2 x 150	2 x 150	150
Battery	2 x 240	2 x 240	240

400 kVA UPS

	Cable Size per Phase (mm²)	Neutral Cable Size (mm²)	PE Cable Size (mm²)
Input	2 x 240	2 x 240	240
Bypass	2 x 240	2 x 240	240
Output	2 x 240	2 x 240	240
Battery	4 x 150	4 x 150	2 x 150

Recommended Bolts and Cable Lugs

Cable Size (mm²)	Bolt Size	Cable Lug Type
120	M12x35 mm	TLK 120-12
150	M12x35 mm	TLK 150-12
185	M12x35 mm	TLK 185-12
240	M12x35 mm	TLK 240-12

Torque Specifications

Bolt Size	Torque
M12	50 Nm

UPS Weights and Dimensions

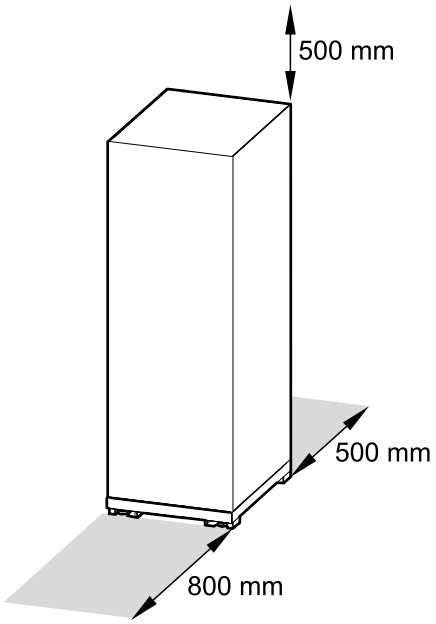
UPS rating	Weight kg	Height mm	Width mm	Depth mm
250 kVA	425	1970	600	850
300 kVA	449	1970	600	850
400 kVA	538	1970	600	850

UPS Shipping Weights and Dimensions

UPS rating	Weight kg	Height mm	Width mm	Depth mm
250 kVA	470	2117	800	1000
300 kVA	503	2117	800	1000
400 kVA	584	2117	800	1000

Clearance

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



Environmental

	Operating	Storage
Temperature	0 °C to 30 °C	-15 °C to 40 °C for systems with batteries -25 °C to 55 °C for systems without batteries
Relative humidity	0-95% non-condensing	
Elevation derating according to IEC 62040-3	Power derating factor: 0-1500 m: 1.000 1500-2000 m: 0.975	< 15000 m above sea level (or in an environment with equivalent air pressure)
Audible noise	<70 dBA at 100% load according to ISO3746	
Protection class	IP20 (air filter as standard)	
Color	RAL 9003	

Heat Dissipation

UPS rating	250 kVA		300 kVA		400 kVA	
	W	BTU/hr	W	BTU/hr	W	BTU/hr
Normal mode	14500	49488	17400	59386	23200	79181
Battery mode	14000	47782	16800	57338	22400	76451
ECO mode	2000	6826	2400	8191	3200	10922

Facility Planning for 500-600 kVA UPSs for External Batteries

Input Specifications

UPS rating	**500 kVA**			**600 kVA**		
Voltage (V)	**380**	**400**	**415**	**380**	**400**	**415**
Connections	L1, L2, L3, N, PE					
Input voltage range (V)	323-477 (full load)					
Frequency range (Hz)	40-70					
Nominal input current (A)	808	768	740	970	921	888
Maximum input current (A)	946	899	866	1135	1079	1040
Input current limitation (A)	1080			1320		
Total harmonic distortion (THDI)	<3% for linear loads <5% for non-linear loads					
Input power factor	>0.99					
Maximum short circuit rating	Icc=35 kA					
Ramp-in	7 seconds					

Bypass Specifications

UPS rating	**500 kVA**			**600 kVA**		
Voltage (V)	**380**	**400**	**415**	**380**	**400**	**415**
Connections	L1, L2, L3, N, PE					
Overload capacity	≤115% continuous 125% for 10 minutes 150% for 1 minute					
Minimum bypass voltage (V)	209	221	228	209	221	228
Maximum bypass voltage (V)	475	480	477	475	480	477
Frequency (Hz)	50 or 60					
Frequency range (%)	±1, ±2, ±4, ±5, ±10. Default is ±10 (user selectable).					
Nominal bypass current (A)	767	729	703	921	875	843
Maximum short circuit rating	Icc=35 kA					

Output Specifications

UPS rating	**500 kVA**			**600 kVA**		
Voltage (V)	**380**	**400**	**415**	**380**	**400**	**415**
Connections	L1, L2, L3, N, PE					
Overload capacity[3]	105% continuous 125% for 10 minutes 150% for 1 minute					
Output voltage regulation	±1%					
Dynamic load response	20 milliseconds					
Output power factor	1					
Nominal output current (A)	760	722	696	912	866	835
Total harmonic distortion (THDU)	<2% at 100% linear load <4% at 100% non-linear load					
Output frequency (Hz)	50 or 60					
Slew rate (Hz/sec)	Programmable: 0.5 to 2.0 Default is 0.5					
Output performance classification (according to IEC/EN62040-3)	VFI-SS-111					
Load power factor	0.5 leading to 0.5 lagging without derating					
Output short circuit current (inverter)	1.2 kA/200 ms			1.5 kA/200 ms		

3. At 30 °C and output power factor 0.9.

Battery Specifications

NOTE: The UPS supports 36-50 battery blocks.

UPS rating	**500 kVA**	**600 kVA**
Max. charging power in % of output power	21%	22%
Maximum charging power (kW)	108	132
Nominal battery voltage (VDC)	±216 to ±300	
Nominal float voltage (VDC)	±243 to ±337.5	
End of discharge voltage (full load) (VDC)	±172.8 to ±240	
Battery current at full load and nominal battery voltage (A)	1231-886	1470-1058
Battery current at full load and minimum battery voltage (A)	1539-1102	1847-1323
Temperature compensation (per cell)[4]	Programmable from 0 to 7 mV/°C. Default is 0 mV/°C.	
Ripple current	<5% C10	

Recommended Upstream Protection

NOTE: For local directives which require 4-pole circuit breakers: If neutral conductor is expected to carry a high current, due to line-neutral non-linear load, the circuit breaker must be rated according to expected neutral current.

UPS rating	**500 kVA**		**600 kVA**	
	Input	**Bypass**	**Input**	**Bypass**
Breaker type	NS1000N Mic 2.0 (33475/NS33475)	NS1000N Mic 2.0 (33475/NS33475)	NS1250N Mic 2.0 (33480/NS33480)	NS1250N Mic 2.0 (33480/NS33480)
In setting	1	1	1	1
Ir setting	0.95	0.9	0.9	0.9
Im setting	Isd=1.5-10	Isd=1.5-10	Isd=1.5-10	Isd=1.5-10

4. If the temperature is above 25 °C. No compensation below 25 °C.

Recommended Cables Sizes

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All wiring must comply with all applicable national and/or electrical codes. The maximum allowable cable size is 240 mm².

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

Cable sizes in this manual are based on table A.52-5 of IEC 60364-5-52 with the following assertions:

- 90 °C conductors
- An ambient temperature of 30 °C
- Use of copper conductors
- Installation method C

PE size is based on table 54.2 of IEC 60364-4-54.

If the ambient temperature is greater than 30 °C, larger conductors are to be used in accordance with the correction factors of the IEC.

NOTE: Battery cables are sized according to 36 battery blocks.

500 kVA UPS

	Cable Size per Phase (mm²)	Neutral Cable Size (mm²)	PE Cable Size (mm²)
Input	3 x 185	3 x 185	2 x 150
Bypass	3 x 185	3 x 185	2 x 150
Output	3 x 185	3 x 185	2 x 150
Battery	6 x 120	6 x 120	3 x 120

600 kVA UPS

	Cable Size per Phase (mm²)	Neutral Cable Size (mm²)	PE Cable Size (mm²)
Input	3 x 240	3 x 240	2 x 185
Bypass	3 x 240	3 x 240	2 x 185
Output	3 x 240	3 x 240	2 x 185
Battery	6 x 150	6 x 150	3 x 150

Recommended Bolts and Cable Lugs

Cable Size (mm²)	Bolt Size	Cable Lug Type
120	M12x35 mm	TLK 120-12
150	M12x35 mm	TLK 150-12
185	M12x35 mm	TLK 185-12
240	M12x35 mm	TLK 240-12

Torque Specifications

Bolt Size	Torque
M12	50 Nm

UPS Weights and Dimensions

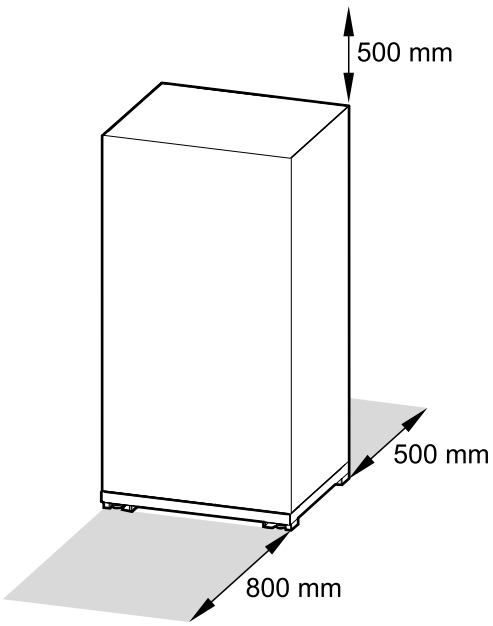
UPS rating	Weight kg	Height mm	Width mm	Depth mm
500 kVA	665	1970	1000	850
600 kVA	745	1970	1000	850

UPS Shipping Weights and Dimensions

UPS rating	Weight kg	Height mm	Width mm	Depth mm
500 kVA	720	2100	1200	1015
600 kVA	800	2100	1200	1015

Clearance

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



Environmental

	Operating	Storage
Temperature	0 °C to 30 °C	-15 °C to 40 °C for systems with batteries -25 °C to 55 °C for systems without batteries
Relative humidity	0-95% non-condensing	
Elevation derating according to IEC 62040-3	Power derating factor: 0-1500 m: 1.000 1500-2000 m: 0.975	< 15000 m above sea level (or in an environment with equivalent air pressure)
Audible noise	<72 dBA at 100% load according to ISO3746	
Protection class	IP20 (dust filter as standard)	
Color	RAL 9003	

Heat Dissipation

UPS rating	**500 kVA**		**600 kVA**	
	W	**BTU/hr**	**W**	**BTU/hr**
Normal mode	31800	108507	37200	126932
Battery mode	28550	97417	33960	115877
ECO mode	3250	11090	3480	11874

Requirements for a Third Party Battery Solution

Battery breaker boxes from Schneider Electric are recommended for the battery interface. Please contact Schneider Electric for more information.

Third Party Battery Breaker Requirements

⚠DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All selected battery breakers must be equipped with instantaneous trip functionality with an undervoltage release coil or a shunt trip release coil.

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

NOTE: There are more factors to consider when selecting a battery breaker than the requirements listed below. Please contact Schneider Electric for more information.

Design Requirements for Battery Breaker

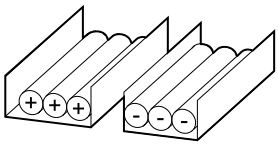
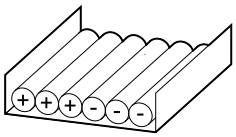
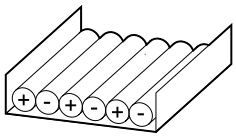
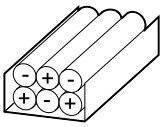
Battery breaker rated DC voltage > Normal battery voltage	The normal voltage of the battery configuration is defined as the highest nominal occurring battery voltage. This can be equivalent to the float voltage which may be defined as **number of battery blocks x number of cells x cell float voltage**.
Battery breaker rated DC current > Rated discharge battery current	This current is controlled by the UPS and must include maximum discharge current. This will typically be the current at the end of discharge (minimum operation DC voltage or in overload condition or a combination).
DC landings	Three DC landings (+, -, N) for DC cables are required.
AUX switches for monitoring	One AUX switch must be installed in each battery breaker and connected to the UPS. The UPS can monitor one battery breaker.
Short-circuit breaking capability	The short-circuit breaking capability must be higher than the short-circuit DC current of the (largest) battery configuration.
Minimum trip current	The minimum short-circuit current to trip the battery breaker must match the (smallest) battery configuration, to make the breaker trip in case of a short circuit, up to the end of its life time.

Guidance for Organizing Battery Cables

NOTE: For 3rd party batteries, use only high rate batteries for UPS applications.

NOTE: When the battery bank is placed remotely, the organizing of the cables is important to reduce voltage drop and inductance. The distance between the battery bank and the UPS must not exceed 200 m (656 ft). Contact Schneider Electric for installations with a longer distance.

NOTE: To minimize the risk of electromagnetic radiation, it is highly recommended to follow the below guidance and to use grounded metallic tray supports.

Cable Length				
<30 m	Not recommended	Acceptable	Recommended	Recommended
31–75 m	Not recommended	Not recommended	Acceptable	Recommended
76–150 m	Not recommended	Not recommended	Acceptable	Recommended
151–200 m	Not recommended	Not recommended	Not recommended	Recommended

Weights and Dimensions

Classic Battery Cabinet Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MCBC7A	736	1900	710	845
E3MCBC7B	909	1900	710	845
E3MCBC7C	531	1900	710	845
E3MCBC7D	800	1900	710	845
E3MCBC10A	1097	1900	1010	845
E3MCBC10B	1277	1900	1010	845
E3MCBC10C	1404	1900	1010	845
E3MCBC10D	1100	1900	1010	845
	1082	1900	1010	845
E3MCBC10E	1280	1900	1010	845
	1262	1900	1010	845

NOTE: E3MCBC10D and E3MCBC10E consist of two cabinets.

Classic Battery Cabinet Shipping Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MCBC7A	756	1980	815	970
E3MCBC7B	929	1980	815	970
E3MCBC7C	551	1980	815	970
E3MCBC7D	820	1980	815	970
E3MCBC10A	1117	1980	1130	970
E3MCBC10B	1297	1980	1130	970
E3MCBC10C	1424	1980	1130	970
E3MCBC10D	1120	1980	1130	970
	1102	1980	1130	970
E3MCBC10E	1300	1980	1130	970
	1282	1980	1130	970

NOTE: E3MCBC10D and E3MCBC10E consist of two cabinets.

Battery Breaker Box Weight and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MBBB100K200H	38	800	500	280

Battery Breaker Box Shipping Weight and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MBBB100K200H	65	1200	825	530

Battery Breaker Kit Weight and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MBBK100K200H	13	530	320	230

Battery Breaker Kit Shipping Weight and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MBBK100K200H	29	800	500	570

Maintenance Bypass Panel Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MBP60K400H	75	1050	750	350

Maintenance Bypass Panel Shipping Weights and Dimensions

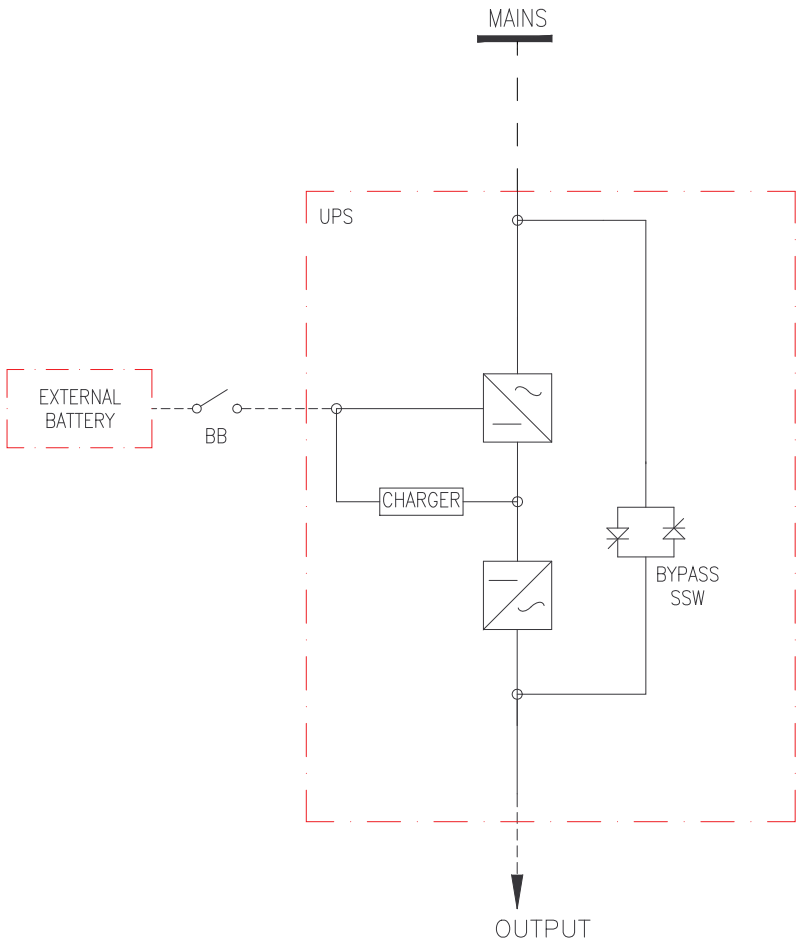
Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MBP60K400H	110	1200	810	600

Drawings

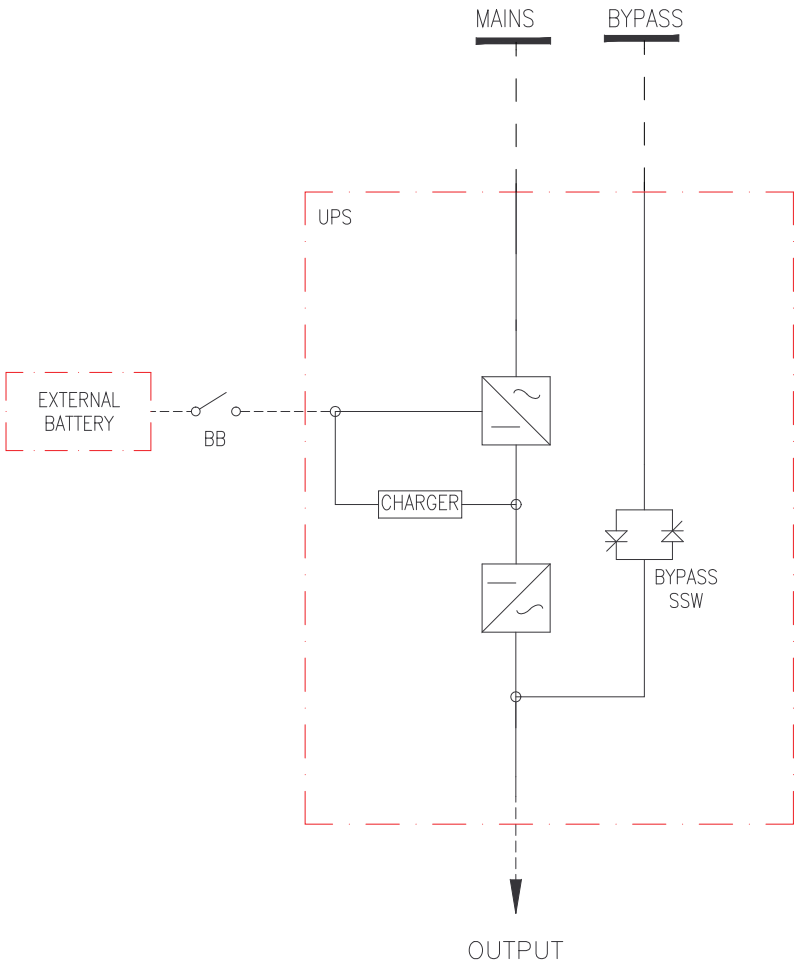
NOTE: A comprehensive set of drawings is available on www.se.com.

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

Easy UPS 3L UPS for External Batteries – Single Mains System



Easy UPS 3L UPS for External Batteries – Dual Mains System



Options

Configuration Options

- Single or dual mains
- Up to 5+1 UPSs in parallel
- ECO mode

Default Settings

Setting	Default Value	Available Settings
Display brightness	63	1-63
Backlight timeout (sec)	60	10-255
Device ID	1	1-255
Baud rate	9600	2400, 4800, 9600, 14400, 19200
Password timeout (minutes)	3	0-120
Date	2015-01-01	
Time	00:00:00	
Operation mode	**Single mode**	**Single mode**, **ECO mode**
Autostart	**Enable**	**Enable**, **Disable**
Self-aging load rate (%)	60	18-100
Frequency converter mode	**Disable**	**Disable**, **Enable**
LBS operation	**LBS disabled**	**LBS disabled**, **LBS master**, **LBS slave**
Transfer delay (sec)	1	0- 20
Par. transfer delay (sec)	10	0 -200
EPO transfers to bypass	**Disable**	**Disable**, **Enable**
Output frequency (Hz)	50	50, 60
Output voltage (V)	400	380, 400, 415
Output volt. compensation (%)	0.0	-5.0, -4.5, -4.0, -3.5, -3.0, -2.5, -2.0, -1.5, -1.0, -0.5, 0.0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0
Min. bypass RMS voltage (%)	-45	-10, -15, -20, -30, -45
Max. bypass RMS voltage (%)	15 at 415 V, 20 at 400 V, 25 at 380 V	10, 15, 20, 25
Bypass frequency range (%)	10	1, 2, 4, 5, 10
Output slew rate (Hz/sec)	0.5	0.5-2.0
Use bypass ON with overheated SCR	**Disable**	**Disable**, **Enable**
Allowed transfers to bypass	10	3-10
Parallel ID	1	1-6
Number of parallel UPSs	2	2-6
Number of par. redundant UPSs	0	0, 1, 2, 3, 4, 5
Strings in battery bank 1	1	1-12
Strings in battery bank 2	1	1-12
Strings in battery bank 3	1	1-12
Battery blocks per string	36	36, 38, 40, 42, 44, 46, 48, 50

Setting	Default Value	Available Settings
Battery block capacity (Ah)	7	7-2000
Periodic boost charge (M)	0	0-24
Maximum charge current	0.1	0.05-0.2
Float voltage (V)	2.25	2.20-2.29
Boost voltage (V)	2.30	2.30-2.40
Boost charge duration (minutes)	240	0-999
Float charge temp. compensation	0.000	0.000-0.007
Boost charge	**Disable**	**Enable**, **Disable**
Alarm for no battery connected	**Enable**	**Enable**, **Disable**
Common battery bank	**No**	**Yes**, **No**
External batt. breaker 1 status	**Enable**	**Disable**, **Enable**
External batt. breaker 2 status	**Enable**	**Disable**, **Enable**
External batt. breaker 3 status	**Enable**	**Disable**, **Enable**
Battery breaker trip	**Enable**	**Disable**, **Enable**
Backfeed on input	**Enable**	**Disable**, **Enable**
Backfeed on bypass	**Enable**	**Disable**, **Enable**
External MBB status	**Disable**	**Disable**, **Enable**
External SPD status	**Enable**	**Disable**, **Enable**
OUT 01	**Disable**	**Disable**, **Common alarm**, **In normal operation**, **On battery**, **Static bypass**, **Maintenance bypass**, **Output overload**, **Fan inoperable**, **Battery inoperable**, **Battery disconnected**, **Battery voltage low**, **Input out of tol.**, **Bypass out of tol.**, **EPO active**, **Charging**
OUT 02	**Disable**	
OUT 03	**Disable**	
OUT 04	**Disable**	
OUT 05	**Disable**	
OUT 06	**Disable**	
IN 01	**Disable**	**Disable**, **INV ON**, **INV OFF**, **Battery inoperable**, **Genset on**, **Custom alarm 3**, **Custom alarm 4**, **Disable ECO**, **Force INV OFF**, **Force charger OFF**
IN 02	**Disable**	
IN 03	**Disable**	
IN 04	**Disable**	
IN 05	**Disable**	
IN 06	**Disable**	
Self-test settings	**Disable auto self-test**	**Disable auto self-test**, **self-test every month**, **self-test every week**
Self-test every	**0 Day 0 hour 0 minute**	
Self-test type	**Customize**	**10 seconds**, **10 minutes**, **EOD**, **-10%**, **Customize**
Air filter check (months)	3	0, 3, 4, 5, 12
Air filter counter (days)	0	

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One-Year Factory Warranty

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990-6289C-001