# **Easy UPS 3L**

# 250-600 kVA

# **Technical Specifications**

Latest updates are available on the Schneider Electric website 3/2025







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IEC (380/400/415 V)



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Here you can find your UPS installation manual, UPS operation manual, and UPS technical specifications, and you can also find installation manuals for your auxiliary products and options.

This online manual portal is available on all devices and offers digital pages, search functionality across the different documents in the portal, and PDF download for offline use.

### **Learn More About the Easy UPS 3L Here:**

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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.

### **ADANGER**

**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.

### **AWARNING**

**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.

### **ACAUTION**

**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.

Per IEC 62040-1: "Uninterruptible power systems (UPS) -- Part 1: Safety Requirements," this equipment, including battery access, must be inspected, installed and maintained by a skilled person.

The skilled person is a person with relevant education and experience to enable him or her to perceive risks and to avoid hazards which the equipment can create (reference IEC 62040-1, section 3.102).

### **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**

### **ADANGER**

### 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.

### **ADANGER**

### 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.

### **ADANGER**

### 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 disconnect devices, battery disconnect devices, 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.

### **A** 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.

### **ADANGER**

### 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.

### **ADANGER**

### 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.

### **ADANGER**

### HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR 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 will result in death or serious injury.

### **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.

### **ADANGER**

#### 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):

### **ADANGER**

### 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.

### **A**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**

### **AADANGER**

#### HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Battery disconnect devices 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.

### **AADANGER**

### 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.

### **AADANGER**

#### 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.

### **ACAUTION**

#### **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.

# **Symbols Used in the Product**

<u></u>	This is the earthing/ground symbol.
	This is the protective earth/equipment grounding conductor symbol.
===	This is the direct current symbol. It is also referred to as DC.
$\sim$	This is the alternating current symbol. It is also referred to as AC.
+	This is the positive polarity symbol. It is used to identify the positive terminal(s) of equipment which is used with, or generates direct current.
_	This is the negative polarity symbol. It is used to identify the negative terminal(s) of equipment which is used with, or generates direct current.
	This is the battery symbol.
	This is the static switch symbol. It is used to indicate switches that are designed to connect or disconnect the load to or from the supply respectively without the existence of moving parts.
	This is the AC/DC converter (rectifier) symbol. It is used to identify an AC/DC converter (rectifier) and, in case of plug-in devices, to identify the relevant receptacles.
	This is the DC/AC converter (inverter) symbol. It is used to identify an DC/AC converter (inverter) and, in case of plug-in devices, to identify the relevant receptacles.

Model List 250-600 kVA

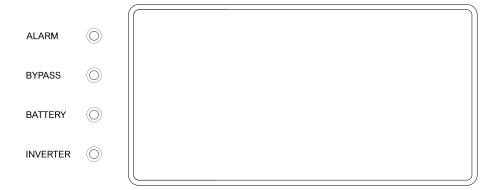
## **Model List**

- 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

250-600 kVA System Overview

# **System Overview**

## **User Interface**



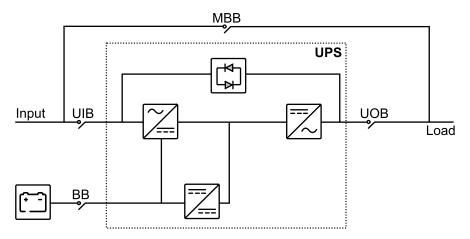
### **Status LEDs**

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			

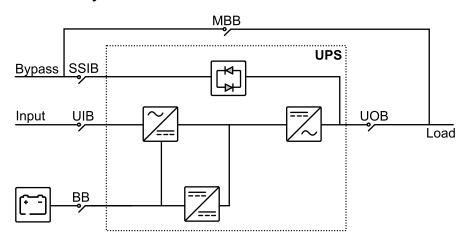
System Overview 250-600 kVA

# **Overview of Single UPS**

### **Single Mains System**



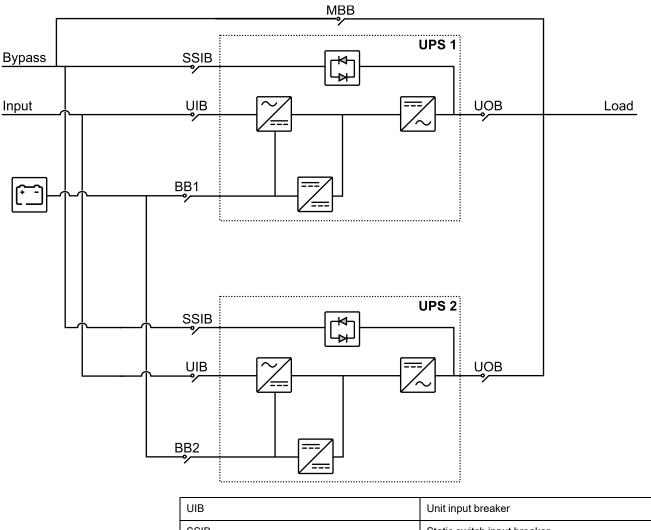
### **Dual Mains System**



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

250-600 kVA System Overview

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

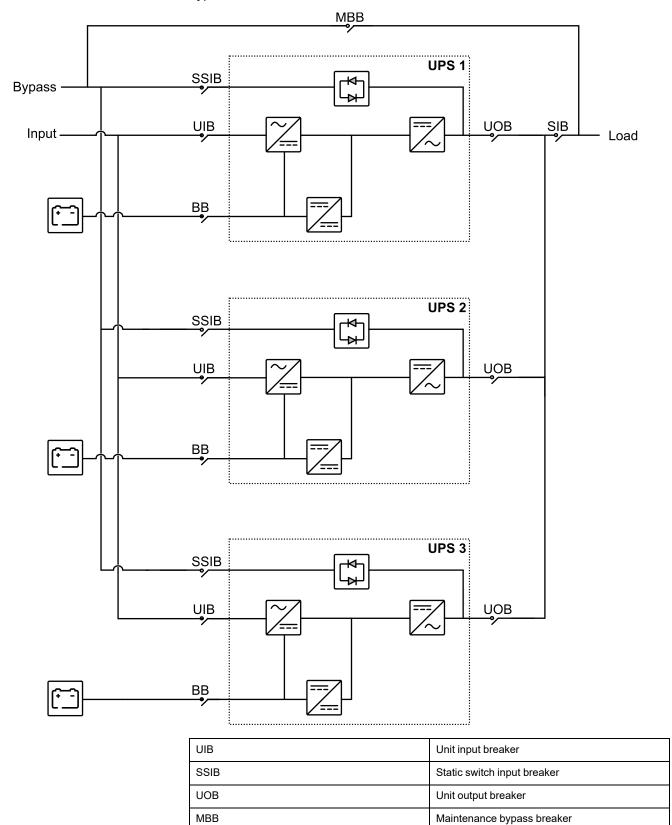


UIB	Unit input breaker
SSIB	Static switch input breaker
UOB	Unit output breaker
MBB	Maintenance bypass breaker
BB1	Battery breaker 1
BB2	Battery breaker 2

System Overview 250-600 kVA

# **Overview of Parallel System**

The impedance of the bypass paths need to be controlled in a parallel UPS system. When operating in bypass mode, the parallel load sharing is determined by the total impedance of the bypass path comprising cables, switchgear, static bypass switch, and cable formation.



990-6289H-001 19

System isolation breaker

Battery breaker

SIB

вв

250-600 kVA System Overview

### **NOTICE**

### **RISK OF EQUIPMENT DAMAGE**

To ensure correct load sharing in bypass operation in a parallel system, the following recommendations apply:

- The bypass cables must be the same length for all UPSs.
- The output cables must be the same length for all UPSs.
- The input cables must be the same length for all UPSs in a single mains system.
- · Cable formation recommendations must be followed.
- The reactance of busbar layout in the bypass/input and output switchgear must be the same for all UPSs.

If the above recommendations are not followed the result can be uneven load sharing in bypass and overload of individual UPSs.

Failure to follow these instructions can result in equipment damage.

Technical Data 250-600 kVA

### **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 k		400 kVA	500 kVA <sup>1</sup>	600 kVA <sup>1</sup>	
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%

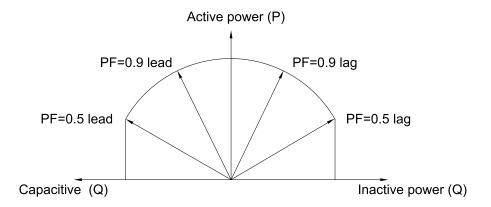
### **Battery operation**

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%

<sup>1.</sup> Can reach 96% efficiency (measured by the power analyzer) under certain conditions: ambient temperature 25°C, UPS operates in normal mode, (linear load) input 426 V and output 415 V.

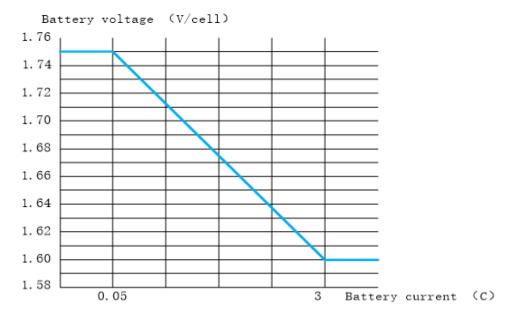
250-600 kVA Technical Data

# **Derating Due to Load Power Factor**



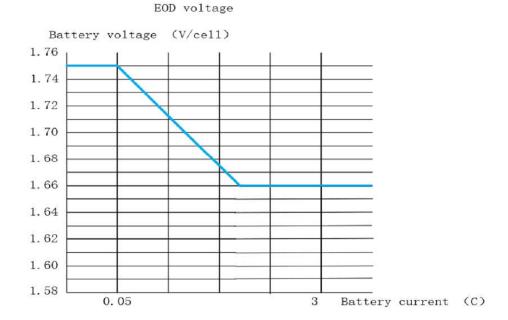
## **End of Discharge Voltage**

The Low Battery Shutdown level is 1.6 V per cell depending on discharge ratio.

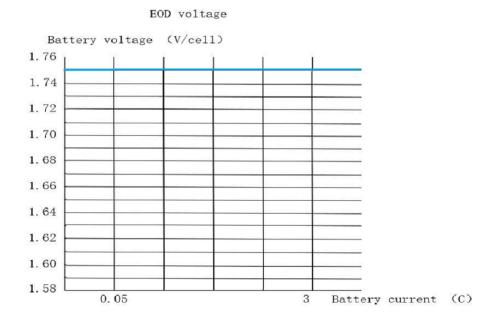


Technical Data 250-600 kVA

The Low Battery Shutdown level is 1.61 V to 1.74 V per cell depending on discharge ratio.

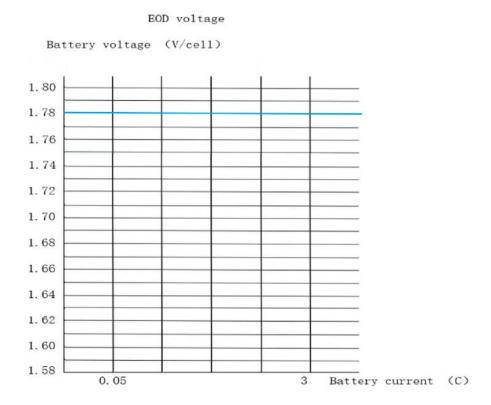


The Low Battery Shutdown level is 1.75 V per cell depending on discharge ratio.



250-600 kVA Technical Data

The Low Battery Shutdown level is 1.76 V to 1.8 V per cell depending on discharge ratio.



Technical Data 250-600 kVA

# **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  $^{\circ}\text{C}$  .

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 kV	250 kVA			300 kV	300 kVA			400 kV	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	
<b>3 x</b> E3MCBC7C	26.5	10.5	5.5		21	8							
<b>3 x</b> E3MCBC7D	43	18	10	6.5	34.5	14	8		24	9.5			
<b>3 x</b> 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	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		
<b>3 x</b> E3MCBC7C									
<b>3 x</b> E3MCBC7D	18	6.8							
<b>3 x</b> E3MCBC10A	25.5	10	5		20	7.5			
<b>3 x</b> E3MCBC10B	36.5	13.5	6.7		28.5	10			
3 x E3MCBC10C	41.5	16	8.3		33	12	5.7		
<b>3 x</b> 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	

250-600 kVA Technical Data

# **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
- Dry contacts
- USB

# Facility Planning for 250-400 kVA UPSs for External Batteries

## **Input Specifications**

UPS rating	250 kVA		300 kVA	300 kVA			400 kVA			
Voltage (V)	380	400	415	380	400	415	380	400	415	
Connections <sup>2</sup>	L1, L2, L3,	N, PE	•	•		-	•			
Input voltage range (V)	323-477 (fu	323-477 (full load)								
Frequency range (Hz)	40-70	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	720			960		
Total harmonic distortion (THDI)	<3% for line	ear loads n-linear load	ls							
Input power factor	>0.99	>0.99								
Maximum short circuit rating	Icc=35 kA	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		<u> </u>		<u> </u>		<u> </u>	
Overload capacity	125% for 10	≤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. Defa	ult is ±10 (us	er selectable	).				
Nominal bypass current (A)	384	364	351	460	437	422	614	583	562
Maximum short circuit rating	Icc=35 kA								

It is mandatory to have the neutral line for the input and the load. If the input or the load does not have a neutral line, a Δ-Y transformer
for input or a Y-Δ transformer for load needs to be installed. And the capacity of the transformer should be >1.2 times the rated capacity
of the UPS.

# **Output Specifications**

UPS rating	250 kVA		300 kVA	300 kVA			400 kVA		
Voltage (V)	380	400	415	380	400	415	380	400	415
Connections <sup>3</sup>	L1, L2, L3,	N, PE							
Overload capacity <sup>4</sup>	125% for 10	105% continuous 125% for 10 minutes 150% for 1 minute							
Output voltage regulation	±1%								
Dynamic load response	20 milliseco	20 milliseconds							
Output power factor	1	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	50 or 60							
Slew rate (Hz/sec)	Programma Default is 0	able: 0.5 to 2. .5	0						
Output performance classification (according to IEC/EN62040-3)	VFI-SS-111	VFI-SS-111							
Load power factor	0.5 leading	to 0.5 laggin	g without dera	ating					
Output short circuit current (inverter)	630 A/200 r	ns		820 A/200	ms		1000 A/200	) ms	

28 990-6289H-001

It is mandatory to have the neutral line for the input and the load. If the input or the load does not have a neutral line, a  $\Delta$ -Y transformer for input or a Y- $\Delta$  transformer for load needs to be installed. And the capacity of the transformer should be >1.2 times the rated capacity of the UPS. 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	±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) <sup>5</sup>	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	lo=500	lo=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

<sup>5.</sup> If the temperature is above 25  $^{\circ}$ C. No compensation below 25  $^{\circ}$ C.

### **Recommended Cables Sizes**

### **ADANGER**

### 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 60364-5-54.

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.

**NOTE:** The battery cable sizes given here are recommendations – Always follow the specific instructions in the battery solution documentation for battery cable sizes and battery PE cable sizes and ensure that the battery cable sizes match the battery breaker rating.

**NOTE:** Recommended cable sizes and maximum allowable cable size may vary for the auxiliary products. Refer to the installation manual provided with the auxiliary product.

### 250 kVA - Copper

	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 – Copper

	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 - Copper

	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

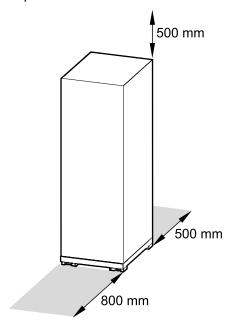
# **UPS Shipping Weights and Dimensions**

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.

**NOTE:** The minimum rear clearance is 500 mm for maintenance and 350 mm for operation.



## **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 <sup>6</sup>	L1, L2, L3, N, PE	L1, L2, L3, N, PE					
Input voltage range (V)	323-477 (full load)	323-477 (full load)					
Frequency range (Hz)	40-70	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	1080 1320					
Total harmonic distortion (THDI)		<3% for linear loads <5% for non-linear loads					
Input power factor	>0.99						
Maximum short circuit rating	lcc=35 kA						
Ramp-in	7 seconds	7 seconds					

## **Bypass Specifications**

UPS rating	500 kVA			600 kVA			
Voltage (V)	380	400	415	380	400	415	
Connections	L1, L2, L3, N, PE	L1, L2, L3, N, PE					
Overload capacity	125% for 10 minut	≤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	50 or 60					
Frequency range (%)	±1, ±2, ±4, ±5, ±10	±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						

<sup>6.</sup> It is mandatory to have the neutral line for the input and the load. If the input or the load does not have a neutral line, a Δ-Y transformer for input or a Y-Δ transformer for load needs to be installed. And the capacity of the transformer should be >1.2 times the rated capacity of the UPS.

# **Output Specifications**

UPS rating	500 kVA			600 kVA			
Voltage (V)	380	400	415	380	400	415	
Connections <sup>7</sup>	L1, L2, L3, N, PE						
Overload capacity <sup>8</sup>		105% continuous 125% for 10 minutes 150% for 1 minute					
Output voltage regulation	±1%						
Dynamic load response	20 milliseconds	20 milliseconds					
Output power factor	1	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. Default is 0.5	5 to 2.0					
Output performance classification (according to IEC/EN62040-3)	VFI-SS-111						
Load power factor	0.5 leading to 0.5	0.5 leading to 0.5 lagging without derating					
Output short circuit current (inverter)	1.2 kA/200 ms 1.5 kA/200 ms						

<sup>7.</sup> It is mandatory to have the neutral line for the input and the load. If the input or the load does not have a neutral line, a Δ-Y transformer for input or a Y-Δ transformer for load needs to be installed. And the capacity of the transformer should be >1.2 times the rated capacity of the UPS.

<sup>8.</sup> 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) <sup>9</sup>	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 In		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

<sup>9.</sup> If the temperature is above 25 °C. No compensation below 25 °C.

#### **Recommended Cables Sizes**

### **ADANGER**

#### 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 60364-5-54.

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.

**NOTE:** The battery cable sizes given here are recommendations – Always follow the specific instructions in the battery solution documentation for battery cable sizes and battery PE cable sizes and ensure that the battery cable sizes match the battery breaker rating.

**NOTE:** Recommended cable sizes and maximum allowable cable size may vary for the auxiliary products. Refer to the installation manual provided with the auxiliary product.

### 500 kVA - Copper

	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 - Copper

	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

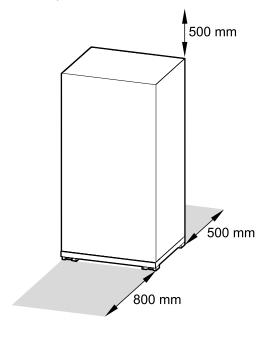
# **UPS Shipping Weights and Dimensions**

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.

 $\mbox{{\bf NOTE:}}$  The minimum rear clearance is 500 mm for maintenance and 350 mm for operation.



# **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**

#### **AADANGER**

#### 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	(±++) (3)	( <del>+++</del>	<del>1</del>	
<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

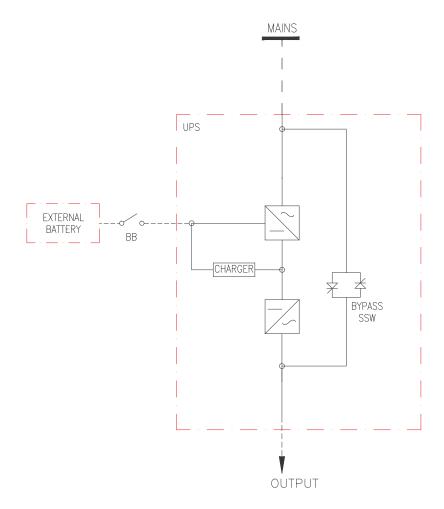
Drawings 250-600 kVA

# **Drawings**

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

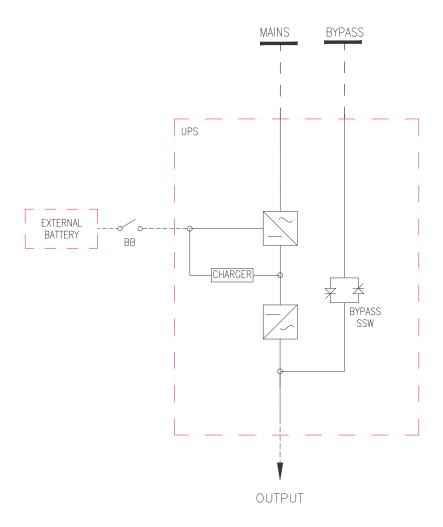
**NOTE:** These drawings are for reference ONLY – subject to change without notice.

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



250-600 kVA Drawings

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



Options 250-600 kVA

# **Options**

# **Configuration Options**

- Single or dual mains
- Up to 6+0 UPSs in parallel
- ECO mode

250-600 kVA Options

# **Hardware Options**

#### **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

#### **Maintenance Bypass Cabinet**

 E3LMBP250K600H: Easy 3L Maintenance Bypass Cabinet, single unit, 250-600kVA 380/400/415V

#### **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**

- 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
- E3LOPT003: Easy UPS 3L IP31 Kit for 250/300kVA 400V 3:3 UPS
- E3LOPT004: Easy UPS 3L IP31 Kit for 400kVA 400V 3:3 UPS
- E3LOPT005: Easy UPS 3L IP31 Kit for 500/600kVA 400V 3:3 UPS

Default Settings 250-600 kVA

# **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
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

250-600 kVA Default Settings

Setting	Default Value	Available Settings
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
OUT 02	Disable	operation, On battery, Static bypass, Maintenance bypass, Output overload,
OUT 03	Disable	Fan inoperable, Battery inoperable, Battery disconnected, Battery voltage
OUT 04	Disable	low, Input out of tol., Bypass out of tol., EPO active, Charging
OUT 05	Disable	Li o active, onlying
OUT 06	Disable	
IN 01	Disable	Disable, INV ON, INV OFF, Battery
IN 02	Disable	inoperable, Genset on, Custom alarm 3, Custom alarm 4, Disable ECO, Force INV
IN 03	Disable	OFF, Force charger OFF
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	

# **Weights and Dimensions for Options**

**NOTE:** Not all options listed here are available for all UPS models. Refer to the hardware options list for the relevant UPS model.

# **Classic Battery Cabinet Weights and Dimensions**

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3MCBC7C	531	1900	710	845
E3MCBC7D	800	1900	710	845
E3MCBC10A	1038	1900	1010	845
E3MCBC10B	1164	1900	1010	845
E3MCBC10C	1280	1900	1010	845
E3MCBC10D	1041	1900	1010	845
	1023	1900	1010	845
E3MCBC10E	1170	1900	1010	845
	1152	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
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 Cabinet with breaker	1120	1980	1130	970
Cabinet without breaker	1102	1980	1130	970
E3MCBC10E Cabinet with breaker	1300	1980	1130	970
Cabinet without breaker	1282	1980	1130	970

# **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

# **Maintenance Bypass Cabinet Weight and Dimensions**

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3LMBP250K600H	227	1970	500	850

# Maintenance Bypass Cabinet Shipping Weight and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
E3LMBP250K600H	267	2150	950	990

# **Bottom Entry Cabinet Shipping Weight and Dimensions**

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
GVBEC	96	2134	535	990

# **Bottom Entry Cabinet Weight and Dimensions**

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
GVBEC	85	1970	400	850

250-600 kVA Limited Factory Warranty

# **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, or within 18 months from the shipment date from Schneider Electric, whichever occurs first. 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.

### 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

Limited Factory Warranty 250-600 kVA

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