Easy UPS 3M Advanced

100-250 kW UPS

Technical Specifications

Latest updates are available on the Schneider Electric website 08/2023





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Important Safety Instructions — SAVE THESE INSTRUCTIONS

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



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



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

DANGER 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.

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, section 3.102).

Electromagnetic Compatibility

NOTICE

RISK OF ELECTROMAGNETIC DISTURBANCE

This is a product category C3 UPS product. In a residential environment, this product may cause radio inference, in which case the user may be required to take additional measures.

Failure to follow these instructions can result in equipment damage.

Safety Precautions

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.

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.

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.

ADANGER

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.

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.

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.

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.

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.

AWARNING

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.

Additional Safety Precautions After Installation

A A 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. If additional construction work is needed in the installation room after this product has been installed, turn off the product and cover the product with the protective packaging bag the product was delivered in.

Electrical Safety

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.

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):

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.

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

A A 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.

A A 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.

A A 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.

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.

NOTE: Always follow the battery manufacturer's installation manual for battery installation and maintenance instructions.

Symbols Used in the Product

	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.
(<u> </u>	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.
\rightarrow	This is the input symbol. It is used to identify an input terminal when it is necessary to distinguish between inputs and outputs.
\bigcirc	This is the output symbol. It is used to identify an output terminal when it is necessary to distinguish between inputs and outputs.
/a	This is the switch disconnector symbol. It is used to identify the disconnecting device in the form of switch.
	This is the circuit breaker symbol. It is used to identify the disconnecting device in the form of circuit breaker that protects the equipment from short circuit or heavy load current. It opens the circuits once the current flow crosses its maximum limit.

Model List

- Easy UPS 3M Advanced 100 kVA scalable to 150 kVA 400 V India for external batteries (E3MUPS100K150HIN)
- Easy UPS 3M Advanced 100 kVA scalable to 250 kVA 400 V India for external batteries (E3MUPS100K250HIN)

NOTE: 50 kW power modules (EMPM50KH) are bought separately for ratings over 100 kW.

Overview

Single System Overview

UIB	Unit input breaker
SSIB	Static switch input breaker
UOB	Unit output breaker
IMB	Internal maintenance breaker
ВВ	Battery breaker

Single System – Single Mains



Single System – Dual Mains



Input Voltage Window



Inverter Short Circuit Capabilities (Bypass not Available)

IK1	Short circuit between a phase and neutral
IK2	Short circuit between two phases
IK3	Short circuit between three phases

S [kW]	IK1	IK2	IK3
100	364 A/220 ms	344 A/220 ms	322 A/220 ms
150	546 A/220 ms	516 A/220 ms	483 A/220 ms
200	728 A/220 ms	688 A/220 ms	644 A/220 ms
250	904 A/220 ms	862 A/220 ms	807 A/220 ms

Efficiency

100 kW	Normal operation			Battery operation			ECO mode		
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	95.9%	95.9%	95.9%	96.8%	96.7%	96.6%	98.8%	99.0%	99.0%
50% load	96.0%	96.1%	96.1%	96.8%	96.9%	96.8%	99.1%	99.2%	99.3%
75% load	95.7%	95.8%	95.9%	96.4%	96.6%	96.5%	99.2%	99.3%	99.3%
100% load	95.2%	95.4%	95.3%	95.9%	96.2%	96.0%	99.2%	99.4%	99.4%

150 kW	Normal operation			Battery operation			ECO mode		
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	95.9%	96.0%	95.9%	96.8%	96.7%	96.6%	99.0%	99.0%	99.0%
50% load	96.1%	96.2%	96.1%	96.8%	96.8%	96.8%	99.3%	99.2%	99.3%
75% load	95.7%	95.9%	95.8%	96.4%	96.5%	96.5%	99.3%	99.3%	99.3%
100% load	95.1%	95.4%	95.4%	95.9%	96.1%	96.0%	99.2%	99.3%	99.3%

200 kW	Normal operation			Battery operation			ECO mode		
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	96.0%	96.0%	95.9%	96.8%	96.8%	96.7%	99.0%	99.0%	99.0%
50% load	96.1%	96.2%	96.1%	96.8%	96.9%	96.8%	99.2%	99.3%	99.2%
75% load	95.7%	95.9%	95.8%	96.5%	96.6%	96.5%	99.3%	99.3%	99.3%
100% load	95.1%	95.3%	95.4%	95.9%	96.1%	96.0%	99.2%	99.3%	99.3%

250 kW Normal operation		Battery operation			ECO mode				
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	96.0%	96.1%	96.0%	96.9%	96.9%	96.8%	99.0%	99.1%	99.0%
50% load	96.1%	96.2%	96.1%	97.0%	96.9%	97.0%	99.2%	99.3%	99.3%
75% load	95.6%	95.9%	95.8%	96.6%	96.6%	96.6%	99.2%	99.3%	99.3%
100% load	95.0%	95.4%	95.2%	96.0%	96.1%	96.1%	99.2%	99.3%	99.2%

Derating Due to Load Power Factor

0.7 leading to 0.7 lagging without derating.

UPS rating	UPS output	UPS output						
	Lagging			Leading				
PF=1	PF=0.7	PF=0.8	PF=0.9	PF=0.9	PF=0.8	PF=0.7		
100 kVA/kW	100 kVA/70 kW	100 kVA/80 kW	100 kVA/90 kW	100 kVA/90 kW	100 kVA/80 kW	100 kVA/70 kW		
150 kVA/kW	150 kVA/105 kW	150 kVA/120 kW	150 kVA/135 kW	150 kVA/135 kW	150 kVA/120 kW	150 kVA/105 kW		
200 kVA/kW	200 kVA/140 kW	200 kVA/160 kW	200 kVA/180 kW	200 kVA/180 kW	200 kVA/160 kW	200 kVA/140 kW		
250 kVA/kW	250 kVA/175 kW	250 kVA/200 kW	250 kVA/225 kW	250 kVA/225 kW	250 kVA/200 kW	250 kVA/175 kW		

Batteries

End of Discharge Voltage





Standard VRLA Voltage Levels

Standard VRLA Voltage Levels

(at nominal temperature)



NOTE: Specific configurations may differ from the general constraint shown above.

Compliance

Safety	IEC 62040-1:2017, Edition 2.0, Uninterruptible power systems (UPS) – Part 1: Safety requirements
EMC	IEC 62040-2:2016, Edition 3.0, Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements. IEC 62040-2:2005-10, Edition 2.0, Uninterruptible Power Systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements
Performance	IEC 62040-3: 2021-03, Edition 3.0, Uninterruptible Power Systems (UPS) - Part 3: Method of specifying the performance and test requirements
Transportation	IEC TR 60721-4-2: 2001 Level 2M2
Pollution degree	2
Overvoltage category	111
Earthing system	TN-S
Protective class	1

Communication and Management

Local area network	1 Gbps – 1 port as default		
Modbus	Modbus (SCADA)		
Output relays	5 x SELV configurable		
Input contacts	4 x SELV configurable		
Standard control panel	7 inch touchscreen display		
Audible alarm	Yes		
Emergency Power Off (EPO)	Options: Normally Closed (NC) with 24 VDC external supply Normally Open (NO) with 24 VDC external supply Normally Closed (NC)/Normally Open (NO) Normally Open (NO) Normally Closed (NC) 		
External switchgear	UIB UOB SSIB Ext. MBB SIB BB		

EPO

EPO Configurations on Board 640-02383 (Terminal J6600, 1-9)



The EPO input supports 24V SELV.

NOTE: The default setting for the EPO activation is to turn off the inverter.

If you want the EPO activation to transfer the UPS into forced static bypass operation instead, please contact Schneider Electric.

EPO function can be set to transfer the UPS into forced static bypass operation on EPO.

Configurable Input Contacts and Output Relays

Input Contacts

Four input contacts are available and can be configured to indicate a given event via the display.

The input contacts support 24 VDC 10 mA. All circuits connected must have the same 0 V reference.



Name	Description	Location on Board 640- 02383
IN _1 (input contact 1)	Configurable input contact	Terminal J3009, 1-2
IN _2 (input contact 2)	-	Terminal J3009, 3-4
IN _3 (input contact 3)		Terminal J3009, 5-6
IN _4 (input contact 4)		Terminal J3009, 7-8

Output Relays

Five output relays are available and can be configured to activate on one or more events via the display.

The output relays support 24 VAC/VDC 1 A. All external circuitry must be fused with maximum 1 A fast acting fuses.



Name	Description	Location on Board 640- 02383
OUT _1 (output relay 1)	Configurable output relay	Terminal J3001, 1 (Comm), 9 (NO), 2 (NC)
OUT _2 (output relay 2)		Terminal J3001, 10 (Comm), 3 (NO), 11 (NC)
OUT _3 (output relay 3)		Terminal J3001, 4 (Comm), 12 (NO), 5 (NC)
OUT _4 (output relay 4)		Terminal J3001, 13 (Comm), 6 (NO), 14 (NC)
OUT _5 (output relay 5)		Terminal J3001, 7 (Comm), 15 (NO), 8 (NC)

Requirements for a Third Party Battery Solution

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

Third Party Battery Breaker Requirements

A A 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.
- Trip delay must be set to zero on all battery breakers.

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	Two DC landings for DC cables (DC+ and DC-) 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 up to four battery breakers.
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

Specifications

Specifications for 100 kW UPS

	Voltage (V)	380	400	415	
	Connections	L1, L2, L3, N, PE (single m L1, L2, L3, PE (dual mains	nains)) ¹		
	Input voltage range at full load (V)	304-456 ²	320-460	332-477	
	Frequency (Hz)	40-70			
	Nominal input current (A)	160	152	147	
nt	Maximum input current (A)	200	190	190	
lnp	Total harmonic distortion (THDI)	≤ 3% for linear load	≤ 3% for linear load		
	Input power factor	> 0.99 (full load)			
	Maximum short circuit rating	Rated conditional short-circuit current Icc = 10 kA RMS Device: Refer to Required Upstream Protection, page 35.			
	Ramp-in	Programmable and adaptive 1-40 seconds			
	Protection	Built-in backfeed protection and fuses			
	Connections	L1, L2, L3, N, PE			
	Minimum bypass voltage (V)	342	360	374	
	Maximum bypass voltage (V)	418	440	457	
ss	Frequency (Hz)	50 or 60			
Bypa	Frequency range (Hz)	±1 Hz, ±3 Hz, ±10 Hz (user selectable)			
	Nominal bypass current (A)	155	147	142	
	Maximum short circuit rating	Rated conditional short-circuit current Icc = 10 kA RMS Device: Refer to Required Upstream Protection, page 35.			
	Protection	Dry contact signal for backfeed protection			
	Connections	L1, L2, L3, N, PE			
	Output voltage regulation	±1% (symmetrical load) ±3% (asymmetrical load)			
	Overload capacity	Normal operation: ≤125% for 10 minutes; ≤150% for 1 minute Bypass operation: ≤110% continuous; ≤125% for 10 minutes; ≤150% for 1 minute Battery operation: ≤125% for 1 minute; ≤150% for 1 second			
	Output power factor	1			
put	Nominal output current (A)	152	145	140	
Out	Total harmonic distortion (THDU)	1% (linear load) 3% (non-linear load)			
	Output frequency (Hz)	50/60 Hz bypass synchronized 50/60 Hz ± 0.1% free-running			
	Slew rate (Hz/sec)	Programmable to 0.25, 0.5, 1, 2, 4, 6 Hz/second			
	Load power factor	0.7 leading to 0.7 lagging v	without derating		
	Load crest factor	2.5			
	Output short circuit current (inverter)	320 A/220 ms			

^{1.} 2. Common N with bypass. Measured at 30 °C.

	Voltage (V)	380	400	415	
	Charging power in % of output power	5% to 60% (selectable)			
	Maximum charging power (kW)	60			
ttery	Nominal battery voltage (VDC)	480 to 576			
	Nominal float voltage (VDC)	545 to 654			
	End of discharge voltage (full load) (VDC)	384 to 461			
	Temperature compensation (per cell)	-3.3 mV/°C/cell for T \ge 25 °C 0 mV/°C/cell for T < 25 °C			
Ba	Battery current at full load and nominal battery voltage (A)	222			
	Battery current at full load and minimum battery voltage (A)	260			
	Ripple current	< 5% C20 (5-minute runtime)			
	Battery test	Manual/automatic (selectable)			
	Maximum short circuit rating	25 kA			

Specifications for 150 kW UPS

	Voltage (V)	380	400	415
	Connections	L1, L2, L3, N, PE (sir L1, L2, L3, PE (dual	ngle mains) mains) ³	
	Input voltage range at full load (V)	304-4564	320-460	332-477
	Frequency (Hz)	40-70	•	•
	Nominal input current (A)	240	228	220
rt	Maximum input current (A)	300	285	285
dul	Total harmonic distortion (THDI)	≤ 3% for linear load	•	•
	Input power factor	> 0.99 (full load)		
	Maximum short circuit rating	Rated conditional sh Device: Refer to Req	ort-circuit current lcc = uired Upstream Protec	10 kA RMS ction, page 35.
	Ramp-in	Programmable and a	adaptive 1-40 seconds	
	Protection	Built-in backfeed pro	tection and fuses	
	Connections	L1, L2, L3, N, PE		
	Minimum bypass voltage (V)	342	360	374
	Maximum bypass voltage (V)	418	440	457
SS	Frequency (Hz)	50 or 60		
Bypa	Frequency range (Hz)	±1 Hz, ±3 Hz, ±10 Hz (user selectable)		
-	Nominal bypass current (A)	232	220	212
	Maximum short circuit rating	Rated conditional short-circuit current Icc = 10 kA RMS Device: Refer to Required Upstream Protection, page 35.		
	Protection	Dry contact signal for backfeed protection		
	Connections	L1, L2, L3, N, PE		
	Output voltage regulation	±1% (symmetrical los ±3% (asymmetrical lo	ad) oad)	
	Overload capacity	Normal operation: ≤125% for 10 minutes; ≤150% for 1 minute Bypass operation: ≤110% continuous; ≤125% for 10 minutes; ≤150% for 1 minute Battery operation: ≤125% for 1 minute; ≤150% for 1 second		150% for 1 minute % for 10 minutes; 0% for 1 second
	Output power factor	1		
put	Nominal output current (A)	228	217	209
Out	Total harmonic distortion (THDU)	1% (linear load) 3% (non-linear load)		
	Output frequency (Hz)	50/60 Hz bypass synchronized 50/60 Hz ± 0.1% free-running		
	Slew rate (Hz/sec)	Programmable to 0.2	25, 0.5, 1, 2, 4, 6 Hz/se	cond
	Load power factor	0.7 leading to 0.7 lag	ging without derating	
	Load crest factor	2.5		
	Output short circuit current (inverter)	480 A/220 ms		

Common N with bypass. For dual mains systems with upstream 4-pole breakers: install an N connection with the UPS input cables (L1, L2, L3, N, PE) and connect Input N with Bypass N. Measured at 30 °C. 3.

^{4.}

	Voltage (V)	380	400	415
	Charging power in % of output power	5% to 60% (selectable)		
	Maximum charging power (kW)	90		
	Nominal battery voltage (VDC)	480 to 576		
	Nominal float voltage (VDC)	545 to 654		
Battery	End of discharge voltage (full load) (VDC)	384 to 461		
	Temperature compensation (per cell)	-3.3 mV/°C/cell for T ≥ 25 °C 0 mV/°C/cell for T < 25 °C		
2	Battery current at full load and nominal battery voltage (A)	333		
	Battery current at full load and minimum battery voltage (A)	390		
	Ripple current	< 5% C20 (5-minute runtime)		
	Battery test	Manual/automatic (selectable)		
	Maximum short circuit rating	25 kA		

Specifications for 200 kW UPS

	Voltage (V)	380	400	415
	Connections	L1, L2, L3, N, PE (sir L1, L2, L3, PE (dual	ngle mains) mains)⁵	
	Input voltage range at full load (V)	304-456 ⁶	320-460	332-477
	Frequency (Hz)	40-70		
	Nominal input current (A)	320	304	293
ut	Maximum input current (A)	400	380	380
dul	Total harmonic distortion (THDI)	≤ 3% for linear load		
	Input power factor	> 0.99 (full load)		
	Maximum short circuit rating	Rated conditional sh Device: Refer to Req	ort-circuit current lcc = uired Upstream Protec	10 kA RMS tion, page 35.
	Ramp-in	Programmable and a	daptive 1-40 seconds	
	Protection	Built-in backfeed pro	tection and fuses	
	Connections	L1, L2, L3, N, PE		
	Minimum bypass voltage (V)	342	360	374
	Maximum bypass voltage (V)	418	440	457
SS	Frequency (Hz)	50 or 60		
Bypa	Frequency range (Hz)	±1 Hz, ±3 Hz, ±10 Hz (user selectable)		
	Nominal bypass current (A)	309	294	283
	Maximum short circuit rating	Rated conditional short-circuit current Icc = 10 kA RMS Device: Refer to Required Upstream Protection, page 35.		
	Protection	Dry contact signal for backfeed protection		
	Connections	L1, L2, L3, N, PE		
	Output voltage regulation	±1% (symmetrical los ±3% (asymmetrical lo	ad) bad)	
	Overload capacity	Normal operation: ≤125% for 10 minutes; ≤150% for 1 minute Bypass operation: ≤110% continuous; ≤125% for 10 minutes; ≤150% for 1 minute Battery operation: ≤125% for 1 minute; ≤150% for 1 second		150% for 1 minute % for 10 minutes; 0% for 1 second
	Output power factor	1		
put	Nominal output current (A)	304	289	279
Out	Total harmonic distortion (THDU)	1% (linear load) 3% (non-linear load)		
	Output frequency (Hz)	50/60 Hz bypass synchronized 50/60 Hz ± 0.1% free-running		
	Slew rate (Hz/sec)	Programmable to 0.2	25, 0.5, 1, 2, 4, 6 Hz/se	cond
	Load power factor	0.7 leading to 0.7 lag	ging without derating	
	Load crest factor	2.5		
	Output short circuit current (inverter)	640 A/220 ms		

Common N with bypass. For dual mains systems with upstream 4-pole breakers: install an N connection with the UPS input cables (L1, L2, L3, N, PE) and connect Input N with Bypass N. Measured at 30 °C. 5.

^{6.}

	Voltage (V)	380	400	415
	Charging power in % of output power	5% to 60% (selectable)		
sattery	Maximum charging power (kW)	120		
	Nominal battery voltage (VDC)	480 to 576		
	Nominal float voltage (VDC)	545 to 654		
	End of discharge voltage (full load) (VDC)	384 to 461		
	Temperature compensation (per cell)	-3.3 mV/°C/cell for T ≥ 25 °C 0 mV/°C/cell for T < 25 °C		
	Battery current at full load and nominal battery voltage (A)	444		
	Battery current at full load and minimum battery voltage (A)	520		
	Ripple current	< 5% C20 (5-minute runtime)		
	Battery test	Manual/automatic (selectable)		
	Maximum short circuit rating	25 kA		

Specifications for 250 kW UPS

	Voltage (V)	380	400	415
	Connections	L1, L2, L3, N, PE (si L1, L2, L3, PE (dual	ngle mains) mains) ⁷	
	Input voltage range at full load (V)	304-456 ⁸	320-460	332-477
	Frequency (Hz)	40-70		
	Nominal input current (A)	400	380	367
rt	Maximum input current (A)	500	475	475
dul	Total harmonic distortion (THDI)	\leq 3% for linear load	•	·
	Input power factor	> 0.99 (full load)		
	Maximum short circuit rating	Rated conditional sh Device: Refer to Rec	ort-circuit current lcc = quired Upstream Protec	10 kA RMS ction, page 35.
	Ramp-in	Programmable and a	adaptive 1-40 seconds	
	Protection	Built-in backfeed pro	tection and fuses	
	Connections	L1, L2, L3, N, PE		
	Minimum bypass voltage (V)	342	360	374
	Maximum bypass voltage (V)	418	440	457
SS	Frequency (Hz)	50 or 60		
Bypa	Frequency range (Hz)	±1 Hz, ±3 Hz, ±10 Hz (user selectable)		
_	Nominal bypass current (A)	386	367	354
	Maximum short circuit rating	Rated conditional short-circuit current Icc = 10 kA RMS Device: Refer to Required Upstream Protection, page 35.		
	Protection	Dry contact signal for backfeed protection		
	Connections	L1, L2, L3, N, PE		
	Output voltage regulation	±1% (symmetrical lo ±3% (asymmetrical l	ad) oad)	
	Overload capacity	Normal operation: ≤125% for 10 minutes; ≤150% for 1 minute Bypass operation: ≤110% continuous; ≤125% for 10 minutes; ≤150% for 1 minute Battery operation: ≤125% for 1 minute; ≤150% for 1 second		150% for 1 minute 5% for 10 minutes; 0% for 1 second
	Output power factor	1		
put	Nominal output current (A)	380	361	348
Out	Total harmonic distortion (THDU)	1% (linear load) 3% (non-linear load)		
	Output frequency (Hz)	50/60 Hz bypass synchronized 50/60 Hz ± 0.1% free-running		
	Slew rate (Hz/sec)	Programmable to 0.2	25, 0.5, 1, 2, 4, 6 Hz/se	cond
	Load power factor	0.7 leading to 0.7 lag	ging without derating	
	Load crest factor	2.5		
	Output short circuit current (inverter)	800 A/220 ms		

Common N with bypass. For dual mains systems with upstream 4-pole breakers: install an N connection with the UPS input cables (L1, L2, L3, N, PE) and connect Input N with Bypass N. Measured at 30 °C. 7.

^{8.}

	Voltage (V)	380	400	415
attery	Charging power in % of output power	5% to 60% (selectable)		
	Maximum charging power (kW)	150		
	Nominal battery voltage (VDC)	480 to 576		
	Nominal float voltage (VDC)	545 to 654		
	End of discharge voltage (full load) (VDC)	384 to 461		
	Temperature compensation (per cell)	-3.3 mV/°C/cell for T ≥ 25 °C 0 mV/°C/cell for T < 25 °C		
-	Battery current at full load and nominal battery voltage (A)	555		
	Battery current at full load and minimum battery voltage (A)	650		
	Ripple current	< 5% C20 (5-minute runtime)		
	Battery test	Manual/automatic (selectable)		
	Maximum short circuit rating	25 kA		

Required Upstream Protection

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The upstream protection must use the required 3-pole breakers OR 4-pole breakers listed below. Follow the national or local requirements to select 3-pole or 4-pole breakers.

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

Required 3-Pole Upstream Protection

UPS rating	100 kW		150 kW	
	Input	Bypass	Input	Bypass
Breaker type	NSX250H TM200 (C25H3TM200)	NSX160H TM160 (C16H3TM160)	NSX400H MiC.2.3 (C40H32D400)	NSX250H TM250 (C25H3TM250)
lo	200	160	320	250
Ir	200	160	0.95	250
lsd	5 - 10	1250 (fixed)	1.5 - 10	5 - 10

UPS rating	200 kW		250 kW	
	Input	Bypass	Input	Bypass
Breaker type	NSX400H MiC.2.3 (C40H32D400)	NSX400H MiC.2.3 (C40H32D400)	NSX630H MiC.2.3 (C63H32D630)	NSX400H MiC.2.3 (C40H32D400)
lo	400	320	500	400
Ir	1	1	1	1
lsd	1.5 - 10	1.5 - 10	1.5 - 10	1.5 - 10

Required 4-Pole Upstream Protection

UPS rating	100 kW		150 kW	
	Input	Bypass	Input	Bypass
Breaker type	NSX250H TM200 (C25H4TM200)	NSX400H MiC.2.3 (C40H42D400)	NSX400H MiC.2.3 (C40H42D400)	NSX400H MiC.2.3 (C40H42D400)
lo	200	280	320	280
Ir	200	0.95	0.95	0.95
Isd	1.5 - 10	1.5 - 10	1.5 - 10	1.5 - 10

UPS rating	200 kW		250 kW	
	Input	Bypass	Input	Bypass
Breaker type	NSX400H MiC.2.3 (C40H42D400)	NSX400H MiC.2.3 (C40H42D400)	NSX630H MiC.2.3 (C63H42D630)	NSX400H MiC.2.3 (C40H42D400)
lo	400	320	500	400
lr	1	1	1	1
lsd	1.5 - 10	1.5 - 10	1.5 - 10	1.5 - 10

Recommended Cables Sizes

A A 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 185 mm².

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

NOTE: Overcurrent protection is to be provided by external devices.

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 $^{\circ}\text{C},$ larger conductors are to be used in accordance with the correction factors of the IEC.

NOTE: Battery cables are sized according to 40 battery blocks. Contact Schneider Electric for cable sizes for systems with more than 40 battery blocks.

NOTE: It is recommended to use the provided screws to connect the power cables.

100 kW UPS

Copper	Cable size per phase (mm²)	Neutral cable size (mm ²)	PE cable size (mm ²))
Input	70	2 x 70	35
Bypass	70 (for 3-pole upstream protection) 2 x 70 (for 4-pole upstream protection)		35
Output	70	2 x 70	35
Battery	95	95	50

150 kW UPS

Copper	Cable size per phase (mm²)	Neutral cable size (mm ²)	PE cable size (mm ²))
Input	120	2 x 70	70
Bypass	120 (for 3-pole upstream protection) 2 x 70 (for 4-pole upstream protection)		70
Output	120	2 x 70	70
Battery	2 x 70	2 x 70	70

200 kW UPS

Copper	Cable size per phase (mm ²)	Neutral cable size (mm ²)	PE cable size (mm ²))
Input	2 x 95	2 x 95	95
Bypass	2 x 70		70
Output	2 x 70	2 x 70	70
Battery	2 x 120	2 x 120	120

250 kW UPS

Copper	Cable size per phase (mm²)	Neutral cable size (mm ²)	PE cable size (mm ²))
Input	2 x 120	2 x 120	120
Bypass	2 x 95		95
Output	2 x 95	2 x 95	95
Battery	2 x 150	2 x 150	150

Recommended Bolt and Lug Sizes

Cable size (mm²)	Bolt size	Cable lug type
16	M8x40 mm	TLK 16-8
25	M8x40 mm	TLK 25-8
35	M8x40 mm	TLK 35-8
50	M8x40 mm	TLK 50-8
70	M8x40 mm	TLK 70-8
95	M8x40 mm	TLK 95-8
120	M8x40 mm	TLK 120-8
150	M8x40 mm	TLK 150-8
185	M8x40 mm	TLK 185-8

Torque Specifications

Bolt size	Torque
M4	1.7 Nm
M6	5 Nm
M8	17.5 Nm
M10	30 Nm
M12	50 Nm

Physical

UPS Shipping Weights and Dimensions

Commercial reference	Weight kg	Height mm	Width mm	Depth mm	Number of preinstalled power modules in the UPS	Number of extra power modules that can be ordered ⁹
E3MUPS100K150HIN	354	2130	750	1190	2	1
E3MUPS100K250HIN	360	2130	750	1190	2	3

Power Module Shipping Weights and Dimensions

NOTE: For N+1 UPS models the weight increases with 28 kg for the redundant power module.

Commercial reference	Weight kg	Height mm	Width mm	Depth mm
EMPM50KH	33	280	590	850

UPS Weights and Dimensions

Туре	Weight kg	Height mm	Width mm	Depth mm
100 kW	306	1970	608	1008
100 kW with N+1 power module	334	1970	608	1008
150 kW	334	1970	608	1008
150 kW with N+1 power module	367	1970	608	1008
200 kW	367	1970	608	1008
200 kW with N+1 power module	395	1970	608	1008
250 kW	395	1970	608	1008

^{9.} See Power Module Shipping Weights and Dimensions, page 38 for shipping weight and dimensions for the extra power modules which are shipped separately.

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.



Environment

	Operating	Storage
Temperature	0 °C to 50 °C with load derating above 40 $^\circ C^{10}$	-25 °C to 55 °C
Relative humidity	0-95% non-condensing	0-95% non-condensing
Elevation	Designed for operation in 0-3000 m elevation. Derating required from 1000-3000 m with forced air cooling: Up to 1000 m: 1.000 Up to 1500 m: 0.975 Up to 2000 m: 0.950 Up to 2500 m: 0.925 Up to 3000 m: 0.900	
Audible noise ¹¹	68 dB at 70% load 74 dB at 100% load	
Protection class	IP20	
Color	White	

For temperatures between 40 °C and 50 °C, derate the load power rating to 75%.
 Values are measured for the maximum configuration.

Heat Dissipation in BTU/hr

100 kW	Normal operation			ECO mode			Battery operation		
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	3647	3647	3647	1036	862	862	2820	2911	3002
50% load	7109	6924	6924	1549	1376	1203	5640	5458	5640
75% load	11499	11220	10941	2064	1804	1804	9557	9007	9282
100% load	17204	16453	16828	2752	2060	2060	14588	13478	14217

150 kW	Normal operation			ECO mode			Battery operation		
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	5471	5332	5471	1293	1293	1293	4230	4367	4504
50% load	10386	10109	10386	1804	2064	1804	8460	8460	8460
75% load	17248	16411	16829	2706	2706	2706	14335	13923	13923
100% load	26371	24679	24679	4128	3608	3608	21882	20771	21326

200 kW	Normal operation			ECO mode			Battery operation		
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	7109	7109	7294	1723	1723	1723	5640	5640	5822
50% load	138479	13478	13847	2752	2405	2752	11280	10916	11280
75% load	229979	21882	22439	3608	3608	3608	18564	18014	18564
100% load	35162	33656	32905	5504	4811	4811	29176	27695	28435

250 kW	Normal operation			ECO mode			Battery operation		
Voltage (V)	380	400	415	380	400	415	380	400	415
25% load	8886	8655	8886	2154	1937	2154	6823	6823	7050
50% load	17309	16848	17309	3440	3007	3007	13191	13645	13191
75% load	29446	27352	28049	5160	4510	4510	22518	22518	22518
100% load	44897	41132	43010	6879	6013	6879	35543	34619	34619

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 3M Advanced 100-250 kW 400 V UPS



Options

Configuration Options

- Single or dual mains
- Default top cable entry.
- ECO mode
- EcoStruxure IT compatible
- Generator compatible

Hardware Options

NOTE: All hardware options listed here may not be available in all regions.

Power Module

Power module 50 kW (EMPM50KH)

Battery Breaker Box

Wall mounted battery breaker box for use with third party battery solutions.

- 100-300 kW battery breaker box with one battery breaker (GVBBB630EL-1CB)
- 250-500 kW battery breaker box with two battery breakers (GVBBB630EL-2CB)

Battery Breaker Kit

Battery breaker kit for use with empty battery cabinets or third party battery solutions.

100-300 kW battery breaker kit (GVBBK630EL)

Maintenance Bypass Panel

Maintenance bypass panel for complete isolation of the UPS during service operations.

• 60-400 kW maintenance bypass panel (E3MBP60K400H)

Optional Installation Kits

Battery temperature sensor (SP3OPT006)

Optional Network Management Card

- Network management card 3 (AP9640)
- UPS network management card 3 with environmental monitoring (AP9641)

Temperature Sensors

- Temperature sensor (AP9335T) for network management card (AP9641)
- Temperature sensor (AP9335TH) for network management card (AP9641)

Limited Factory Warranty

One-Year Factory Warranty

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