

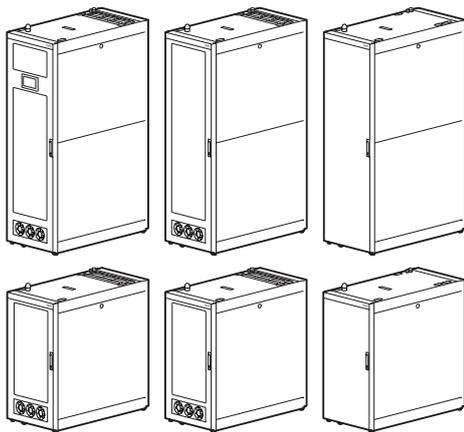
Easy Micro Data Center

C-Series and S-Series

Installation

990-91518D

Release date: July 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 the user to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

⚠ DANGER

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

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

⚠ WARNING

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

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

⚠ CAUTION

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

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

NOTICE

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

Failure to follow these instructions can result in equipment damage.

Please Note

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

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

Always abide strictly by local laws and regulations in force in the place of installation.

Safety Information for the Easy Micro Data Center

DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Ensure the Micro Data Center is properly grounded to the building Common Bonding Network (CBN) according to local and national codes and guidelines.
- Grounding must be performed only by qualified personnel.
- Electrical equipment must be installed, operated, serviced, and maintained only by qualified and authorized personnel.
- Only certified electricians are authorized to connect power to the Micro Data Center.
- The Micro Data Center must be installed in accordance with the National Electrical Code and all applicable local codes.
- Perform appropriate Lock Out/Tag Out procedures during equipment installation.
- Remove incoming Main power upstream from the Micro Data Center before performing any work.
- The Micro Data Center does not incorporate a Main disconnect. Due to the use of the UPS, live power exists within the equipment when power is turned off at the input circuit breaker.
- Wear appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E.

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

WARNING

TIP / HEAVY EQUIPMENT HAZARD

- The Micro Data Center can be tipped. Use extreme caution when unpacking or moving.
- Use at least two people to unpack and move a 24U Micro Data Center. Use at least four to unpack and move a 42U Micro Data Center.
- When moving the Micro Data Center on its casters, ensure the path of the Micro Data Center is free of obstacles and debris.
- When moving the Micro Data Center on its casters, ensure the leveling feet are up and push the cabinet from the front or rear. Never push the Micro Data Center from the sides.

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

WARNING

TIP HAZARD

- Install the heaviest equipment first and toward the bottom of the cabinet to prevent the Micro Data Center from becoming top-heavy.
- Extend slide-mounted hardware one piece at a time.

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

CAUTION

FALLING EQUIPMENT HAZARD

Install cage nuts horizontally, with the tabs engaging the left and right sides of the square hole. Do NOT install cage nuts vertically with the tabs engaging the top and bottom of the square hole.

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

NOTICE**HAZARD OF EQUIPMENT DAMAGE**

The ambient operating temperature of a closed or multi-unit rack environment may be greater than the ambient temperature of the room. Ensure the ambient operating temperature of your rack environment does not exceed the rated ambient operating temperature for your equipment.

Failure to follow these instructions can result in equipment damage.

NOTICE**HAZARD OF ABNORMAL OPERATION**

Check to ensure the UPS is in bypass mode after removing the cover on the Maintenance Bypass circuit breaker. If the UPS is not in bypass mode, follow the instructions in the UPS manual to switch the UPS to bypass mode manually.

Failure to follow these instructions can result in equipment damage.

Labels

Look for additional safety information affixed to the Micro Data Center. See Labels, page 23 for label descriptions.

General Information

International Models	EMDC42UP1	EMDC24UP1
Base Unit (Pre-installed Equipment)		
Enclosure	42U, Contained (ER6222XMS1) <ul style="list-style-type: none"> Mounting space for 7-in Touch-screen Display Interface 600 W x 1200 D x 1991 H (mm) 19 in Rails (1200 kg/2645 lb static load) 28U Available for Customer equipment Fan Modules (front and roof) Heavy Duty Casters 	24U, Contained (ER6422XMS0) <ul style="list-style-type: none"> 600 W x 1200 D x 1198 H (mm) 19 in Rails (1200 kg/2645 lb static load) 11U Available for Customer equipment Fan Modules (front and roof) Heavy Duty Casters
Monitoring features	Monitor 230 V (EMDCKIT0) <ul style="list-style-type: none"> Local Touch-screen Display Interface, 7 in Temperature and Humidity Sensors (front and rear) Door Contact Sensors (front and rear) Water Leakage Sensor Smoke Sensor Alarm Beacon 	Monitor 230 V (EMDCKIT0) <ul style="list-style-type: none"> Temperature and Humidity Sensors (front and rear) Door Contact Sensors (front and rear) Water Leakage Sensor Smoke Sensor Alarm Beacon
Power Distribution Panel (PDP)	3U PDP 38 A, 230 V with IEC309 16 A plug (EMPDP0600)	3U PDP 20 A, 230 V with C19 plug (EMPDP0300)
Accessories included	<ul style="list-style-type: none"> Interior Lighting Cable Manager 	<ul style="list-style-type: none"> Interior Lighting Cable Manager
Optional Equipment for the Full Solution (Purchased and Shipped Separately)		
Cooling	<ul style="list-style-type: none"> 3.5 kW, Rack Mounted 5U Split System, 50 or 60 Hz, with or without Pre-charged Refrigerant (ACRMD4KI-1, ACRMD4KI-2, ACRMD4KI-3, ACRMD4KT-1, ACRMD4KT-2) Top pipe kit (ACAC10042), Bottom pipe kit (short Z type, ACAC10044), or Bottom pipe kit for underfloor installation (long Z type, ACAC10043), 	<ul style="list-style-type: none"> 3.5 kW, Rack Mounted 5U Split System, 50 or 60 Hz, with or without Pre-charged Refrigerant (ACRMD4KI-1, ACRMD4KI-2, ACRMD4KI-3, ACRMD4KT-1, ACRMD4KT-2) Bottom pipe kit (short Z type, ACAC10044), or Bottom pipe kit for underfloor installation (long Z type, ACAC10043)
UPS	APC Easy UPS 230 V SRV 6 kVA Rack Mounted Series, standard back up module or long back up module	APC Easy UPS 230 V SRV 3 kVA Rack Mounted Series, standard Back UP module or Long Back Up module
Rack PDU	Easy PDU (Qty 1–2): Basic, 0U , 16 A, 230 V, (20) C13 & (4) C19 outlets (EPDU1116B) or Metered, 0U , 16 A, 230 V, (18) C13 & (3) C19 outlets (EPDU1116M)	Easy PDU (Qty 1–2): Basic, 1U, 16 A, 230 V, (8) C13 outlets (EPDU1016B) or Metered, 1U, 16 A, 230 V, (8) C13 outlets (EPDU1016M)
Optional accessories	<ul style="list-style-type: none"> APC Easy UPS Battery Pack, 3U (SRV240RLBP-9A) Rack Mounted Touch Screen Display for Cooling Unit (ACAC10045) Condensate pump (ACAC10039) EcoStruxure IT Gateway (INNUC0119) 1U Blanking Panels (AR8136BLK) One Year Monitoring and Dispatch 	<ul style="list-style-type: none"> APC Easy UPS Battery Pack, 72 V, 2U (SRV72RLBP-9A) Rack Mounted Touch Screen Display for Cooling Unit (ACAC10045) Condensate pump (ACAC10039) EcoStruxure IT Gateway (INNUC0119) 1U Blanking Panels (AR8136BLK) One Year Monitoring and Dispatch
Service	One Year Factory Warranty	One Year Factory Warranty

European Models	EMDC42U6KP2	EMDC42U6KP2V	EMDC24U3KP2	EMDC24U3KP2V
Base Unit (Pre-installed Equipment)				
Enclosure	42U, Contained (ER6222XMS0) <ul style="list-style-type: none"> 600 W x 1200 D x 1991 H (mm) 19 in Rails (1200 kg/2645 lb static load) Fan Modules (front and roof) Heavy Duty Casters 	42U, Ventilated (ER6222XMV0) <ul style="list-style-type: none"> 600 W x 1200 D x 1991 H (mm) 19 in Rails (1200 kg/2645 lb static load) Ventilated cabinet Heavy Duty Casters 	24U, Contained (ER6422XMS0) <ul style="list-style-type: none"> 600 W x 1200 D x 1198 H (mm) 19 in Rails (1200 kg/2645 lb static load) Fan Modules (front and roof) Heavy Duty Casters 	24U, Ventilated (ER6402XMV0) <ul style="list-style-type: none"> 600 W x 1000 D x 1198 H (mm) 19 in Rails (1200 kg/2645 lb static load) Ventilated cabinet Heavy Duty Casters
Power Distribution Panel (PDP)	3U PDP 38 A, 230 V, with IEC309 16 A plug and power meter (EMPDP060M)	3U PDP 38 A, 230 V, with IEC309 16 A plug and power meter (EMPDP060M)	3U PDP 20 A, 230 V, with C19 plug and power meter (EMPDP030M)	3U PDP 20 A, 230 V, with C19 plug and power meter (EMPDP030M)
UPS	<ul style="list-style-type: none"> APC Easy UPS, 6 kVA, 230 V, 2U (SRVPM6KRIL) UPS Rail Kit (SRVRK1) 	<ul style="list-style-type: none"> APC Easy UPS, 6 kVA, 230 V, 2U (SRVPM6KRIL) UPS Rail Kit (SRVRK1) 	<ul style="list-style-type: none"> APC Easy UPS, 3 kVA, 230 V, 2U (SRVPM3KRIL) UPS Rail Kit (SRVRK1) 	<ul style="list-style-type: none"> APC Easy UPS, 3 kVA, 230 V, 2U (SRVPM3KRIL) UPS Rail Kit (SRVRK1)
Monitoring features	Monitor 230 V (EMDCKIT0) <ul style="list-style-type: none"> Temperature and Humidity Sensors (front and rear) Door Contacts Water Leakage Sensor Smoke Sensor Alarm Beacon 	Monitor 230 V (EMDCKIT0) <ul style="list-style-type: none"> Temperature and Humidity Sensors (front and rear) Door Contacts Alarm Beacon 	Monitor 230 V (EMDCKIT0) <ul style="list-style-type: none"> Temperature and Humidity Sensors (front and rear) Door Contacts Water Leakage Sensor Smoke Sensor Alarm Beacon 	Monitor 230 V (EMDCKIT0) <ul style="list-style-type: none"> Temperature and Humidity Sensors (front and rear) Door Contacts Alarm Beacon
Accessories	<ul style="list-style-type: none"> Interior Lighting Cable Manager 	<ul style="list-style-type: none"> Interior Lighting Cable Manager 	<ul style="list-style-type: none"> Interior Lighting Cable Manager 	<ul style="list-style-type: none"> Interior Lighting Cable Manager

European Models	EMDC42U6KP2	EMDC42U6KP2V	EMDC24U3KP2	EMDC24U3KP2V
Optional Equipment for the Full Solution (Purchased and Shipped Separately)				
Cooling	<ul style="list-style-type: none"> 3.5 kW, Rack Mounted 5U Split System, 50 Hz, no pre-charged refrigerant (ACRMD4KI-1, ACRMD4KI-3) Top pipe kit (ACAC10042), Bottom pipe kit (short Z type, ACAC10044), or Bottom pipe kit for underfloor installation (long Z type, ACAC10043), 	none	<ul style="list-style-type: none"> 3.5 kW, Rack Mounted 5U Split System, 50 Hz, no pre-charged refrigerant (ACRMD4KI-1, ACRMD4KI-3) Bottom pipe kit (short Z type, ACAC10044), or Bottom pipe kit for underfloor installation (long Z type, ACAC10043), 	none
UPS Battery Pack	<ul style="list-style-type: none"> APC Easy UPS Battery Pack, 3U (SRV240RLBP-9A) Rail Kit for Battery Pack (SRVRK2) 	<ul style="list-style-type: none"> APC Easy UPS Battery Pack, 3U (SRV240RLBP-9A) Rail Kit for Battery Pack (SRVRK2) 	<ul style="list-style-type: none"> APC Easy UPS Battery Pack, 72 V, 2U (SRV72RLBP-9A) Rail Kit for Battery Pack (SRVRK2) 	<ul style="list-style-type: none"> APC Easy UPS Battery Pack, 72 V, 2U (SRV72RLBP-9A) Rail Kit for Battery Pack (SRVRK2)
Rack PDU	<p>Easy PDU (Qty 1–2):</p> <p>Basic, 0U , 16 A, 230 V, (20) C13 & (4) C19 outlets (EPDU1116B) or</p> <p>Metered, 0U , 16 A, 230 V, (18) C13 & (3) C19 outlets (EPDU1116M)</p>	<p>Easy PDU (Qty 1–2):</p> <p>Basic, 0U , 16 A, 230 V, (20) C13 & (4) C19 outlets (EPDU1116B) or</p> <p>Metered, 0U , 16 A, 230 V, (18) C13 & (3) C19 outlets (EPDU1116M)</p>	<p>Easy PDU (Qty 1–2):</p> <p>Basic, 1U, 16 A, 230 V, (8) C13 outlets (EPDU1016B) or</p> <p>Metered, 1U, 16 A, 230 V, (8) C13 outlets (EPDU1016M)</p>	<p>Easy PDU (Qty 1–2):</p> <p>Basic, 1U, 16 A, 230 V, (8) C13 outlets (EPDU1016B) or</p> <p>Metered, 1U, 16 A, 230 V, (8) C13 outlets (EPDU1016M)</p>
Options	<ul style="list-style-type: none"> Condensate pump (ACAC10039) Rack Mounted Touch Screen Display for Cooling Unit (ACAC10045) EcoStruxure IT Gateway (INNUC0119) 1U Blanking Panels (AR8136BLK) One Year Monitoring and Dispatch 	<ul style="list-style-type: none"> EcoStruxure IT Gateway (INNUC0119) One Year Monitoring and Dispatch 	<ul style="list-style-type: none"> Condensate pump (ACAC10039) Rack Mounted Touch Screen Display for Cooling Unit (ACAC10045) EcoStruxure IT Gateway (INNUC0119) 1U Blanking Panels (AR8136BLK) One Year Monitoring and Dispatch 	<ul style="list-style-type: none"> EcoStruxure IT Gateway (INNUC0119) One Year Monitoring and Dispatch
Service	One Year Factory Warranty	One Year Factory Warranty	One Year Factory Warranty	One Year Factory Warranty

NOTE: If desired, you may also purchase and install a Fire Suppression Unit and additional Smoke Detectors from a separate vendor.

Documents included with your Easy Micro Data Center

Read and understand the documentation for products included in the Easy Micro Data Center. Documentation can be found in the Accessory Box, shipped separately with the product, or on www.se.com/www.apc.com. To find a document on the website, enter the model number of your product in the **Search** bar, navigate to the appropriate product page, then select **Documentation**.

Documents are updated regularly. Check the website for updates to your documentation.

Component	Document type	Document part number	Where to look online
Easy Micro Data Center (EMDC42UP1, EMDC24UP1, EMDC42U6KP2, EMDC42U6KP2V, EMDC24U3KP2, EMDC24U3KP2V)	Installation (this manual)	990-91518	www.apc.com www.se.com
APC Easy UPS SRV RM, 6 kVA, 230 V with External Battery Pack (SRV6KRIL) APC Easy UPS SRV RM, 6 kVA, 230 V (SRV6KRI) APC Easy UPS, 6 kVA, 230 V, 2U (SRVPM6KRIL)	User Manual	990-91169	www.apc.com
APC Easy UPS SRV RM, 3 kVA, 230 V with External Battery Pack (SRV3KRIL) APC Easy UPS SRV RM, 3 kVA, 230 V (SRV3KRI)	User Manual	990-5964	www.apc.com
APC Easy UPS, 6 kVA, 230 V, 2U (SRVPM3KRIL)	User Manual	990-6414	
APC Easy UPS 240 RM Battery Pack for 6 & 10 kVA, Rack Extended Runtime, 3U (SRV240RLBP-9A) APC Easy UPS 240 RM Battery Pack for 3 kVA, Rack Extended Runtime, 2U SRV72RLBP-9A	User Manual	990-91177A	www.apc.com
APC Easy UPS Rail Kit, 700 mm (SRVRK1)	Installation Manual	990-91207	www.apc.com
Rack Mounted 3.5 kW Air Conditioning Indoor Unit with gravity drain, Split System, (ACRMD4KI-1) Rack Mounted 3.5 kW Air Conditioning Outdoor Unit with pre-charged refrigerant, (ACRMD4KI-2) Rack Mounted 3.5 kW Air Conditioning Outdoor Unit without pre-charged refrigerant, (ACRMD4KI-3) Top piping (ACAC10042) Bottom piping under raised floor (ACAC10043) Bottom piping (ACAC10044)	User Manual	990-6186-001	www.apc.com www.se.com
Condensate Drain Pump ACAC10039	Installation Sheet	990-91281B-001	www.apc.com
Low Ambient Temperature Kit (ACAC10040)	Installation Sheet	990-91280C-001	www.apc.com
Rack Mounted Touch Screen Display Interface (ACAC10045)	Installation Sheet	990-981283A-001	www.apc.com
Basic Easy PDU, Zero U, 16 A, 230 V, (20) C13, & (4) C19, IEC309 (EPDU1116B)	Installation Sheet	990-91330	www.apc.com
Easy PDU, Metered, Zero U, 16 A, 230 V, (18) C13 & (3) C19; IEC309 (EPDU1116M)	Installation Sheet	990-6246	www.apc.com
Easy PDU, Basic, 1U, 16 A, 230 V, (8) C13 (EPDU1016B)	Installation Sheet	990-6369	www.apc.com
Easy PDU, Basic, 1U, 16 A, 230 V, (8) C13 (EPDU1016M)	Installation Sheet	990-6245	www.apc.com

Online-only Documents

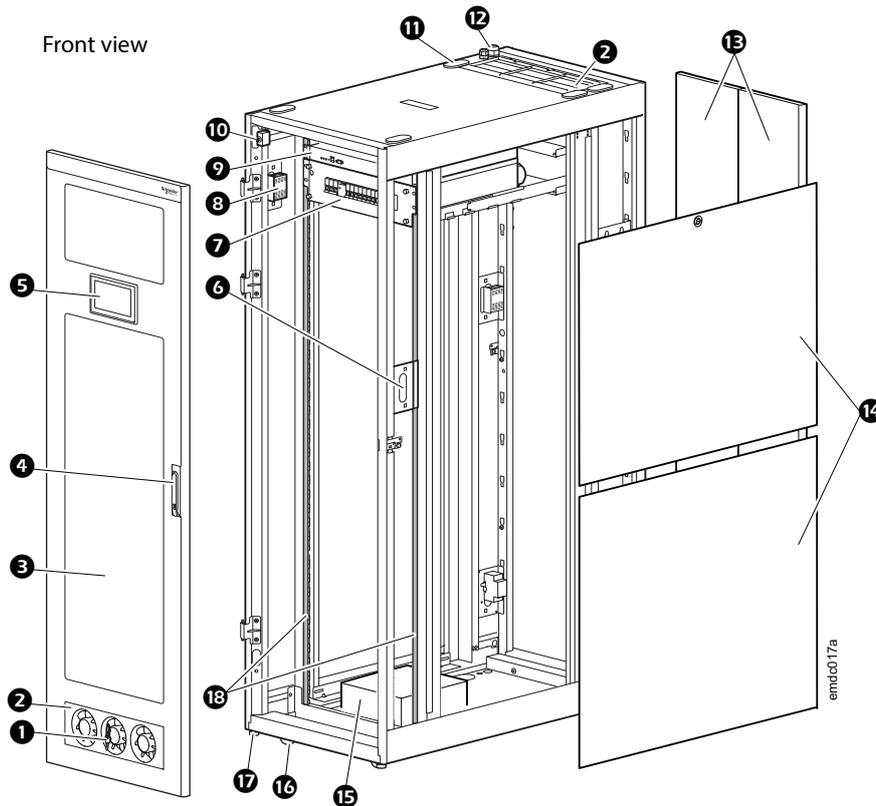
Component	Document type	Document part number	Where to find
Easy Micro Data Center (EMDC42UP1, EMDC24UP1, EMDC42U6KP2, EMDC42U6KP2V, EMDC24U3KP2, EMDC24U3KP2V)	User Guide	990-91508	www.apc.com www.se.com
Single Phase Multi-functional Energy Meter (iEM2250, installed in Power Distribution Panel models EMPDP030M and EMPDP060M)	User Guide	PHA9460800-01-EN	www.se.com
Easy PDU, Metered, Zero U, 16 A, 230 V, (18) C13 & (3) C19; IEC309 (EPDU1116M)	User Guide	990-6265A	www.apc.com

Inventory

Inspect equipment for damage upon receipt. Notify the shipping carrier and Schneider Electric immediately if any damage is found. There are several boxes containing various parts and accessory items. After opening a box, check the contents. Report missing or damaged components to: <http://www.apc.com/support>.

The shipping materials are recyclable. Save them for later use or dispose of them appropriately.

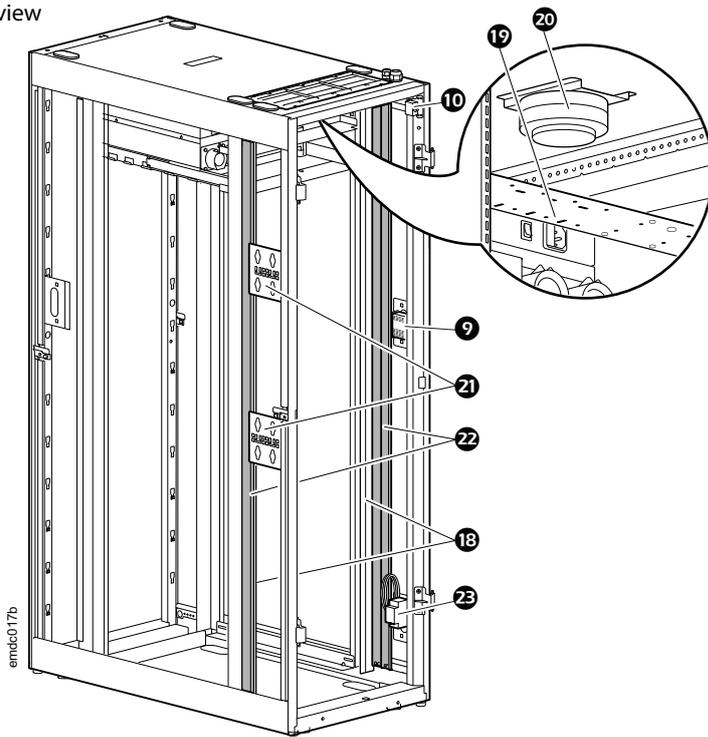
Easy Micro Data Center Features



EMDC42UP1 shown.

Item	Description	Item	Description
1	Door keys (1)	10	Door sensors (2)
2	Emergency fans — front door/roof (not included in EMDC42U6KP2V, EMDC24U3KP2V)	11	Roof entry points for wires (5)
3	Front door (1), glass for contained models or perforated for ventilated models	12	Entry points for utility and cooling power inputs (2)
4	Lockable front door handle (1)	13	Split rear doors (2)
5	Local Touch Screen Display Interface (1, EMDC42UP1 only)	14	Removable side panels (4)
6	Bracket with wiring diagrams for the power/communications connections and Power Distribution Panel (used to check installation)	15	Accessory box (1, see Accessory Box, page 19 for contents)
7	Power distribution panel (1)	16	Casters (4)
8	Temperature/Humidity sensor (2)	17	Leveling feet (4)
9	Monitor (1)	18	Vertical mounting rails for standard 19 in rack equipment (4)

Rear view



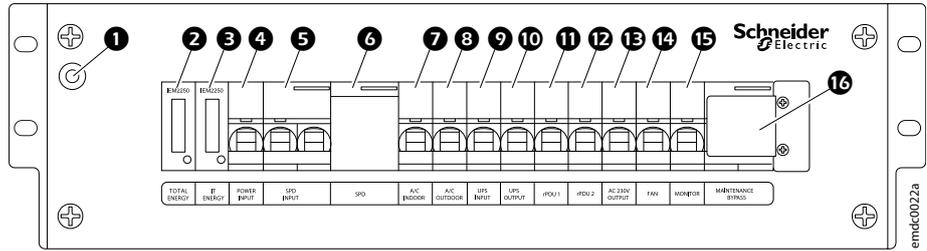
emdc017b

Item	Description
19	Cable management shelf (2)
20	Smoke sensor (1) (not included in EMDC42U6KP2V, EMDC24U3KP2V)
21	Mounting brackets for 0U Rack PDUs (2)
22	Cable management panels (3)
23	Water Leakage sensor (1) (not included in EMDC42U6KP2V, EMDC24U3KP2V)

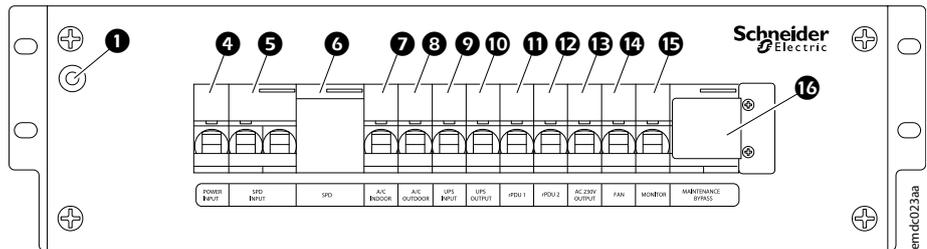
Power Distribution Panel Description

Front view

EMPDP030M, EMPDP060M



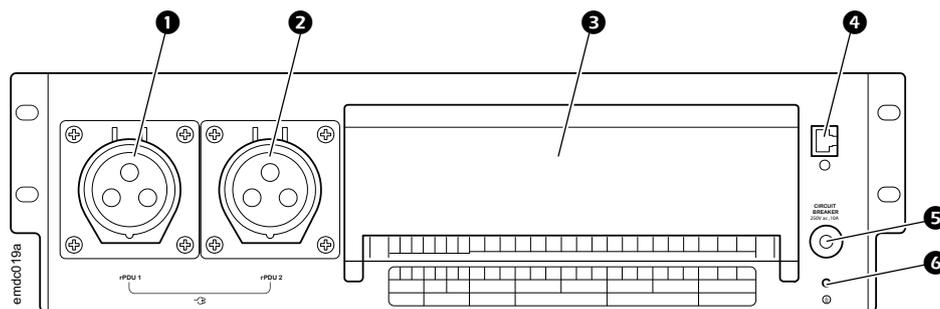
EMPDP0300, EMPDP0600



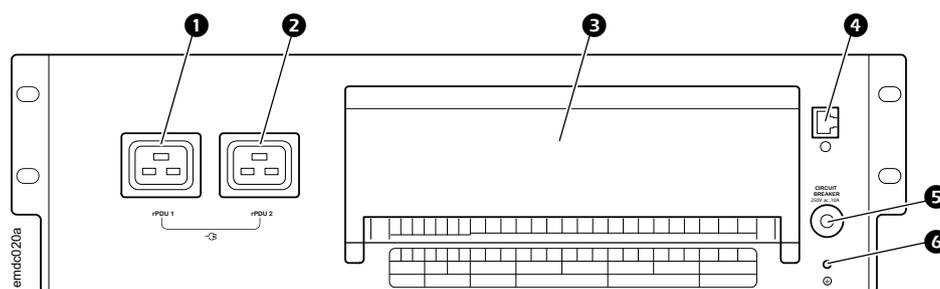
1	Power LED (Light Emitting Diode) — Illuminates when the PDP is receiving power	9	Breaker for UPS input connection (normally ON)
2	Input meter to measure total input power, voltage, current, etc. of input power source (iEM2250). See the Web UI for detailed measurements.	10	Breaker for UPS Output connection (normally ON)
3	Facility meter to measure the power, voltage, current, etc. of customer IT equipment (iEM2250). See the Web UI for detailed measurements.	11	Breaker for Rack PDU 1 (normally ON)
4	Power input breaker (normally ON)	12	Breaker for Rack PDU 2 (normally ON)
5	Joined breakers for Surge Protection Device (normally ON)	13	AC 230 V Output Breaker for customer equipment (normally ON)
6	Surge protection device (A9L040501)	14	Breaker for front and rear fans (normally ON)
7	Breaker for Indoor Cooling Unit (normally ON)	15	Breaker for Monitor (normally ON)
8	Breaker for Outdoor Cooling Unit (normally ON)	16	Joined breakers for maintenance bypass (normally OFF)

Rear view

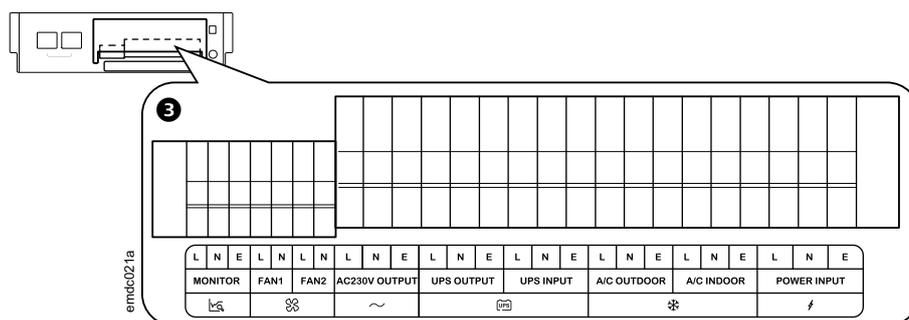
EMPDP0600, EMPDP060M



EMPDP0300, EMPDP030M



EMPDP0600, EMPDP060M, EMPDP0300, EMPDP030M

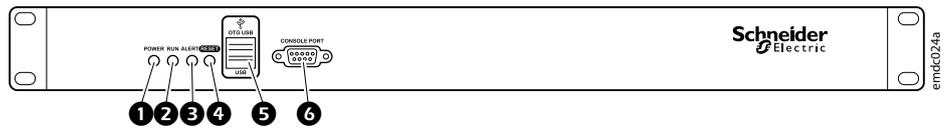


1	Rack PDU 1 connection
2	Rack PDU 2 connection
3	Terminal block connections for Easy Micro Data Center equipment (cover removed)
4	Communication connection to Monitor
5	Circuit breaker for the Power LED / Reset button If the breaker is turned OFF, press the button to reset the circuit breaker to its normal state (ON).
6	Ground connection (M4)

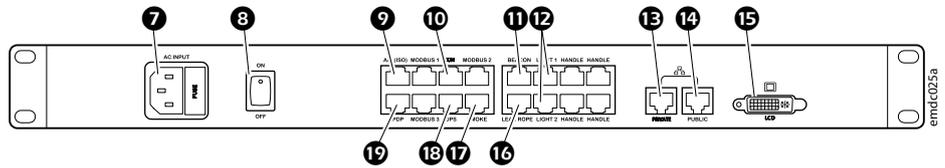
NOTE: Use 1.5–1.8 N•m (13.3–15.9 lb-in) of torque for connections to the terminal block.

Monitor Description

Front view



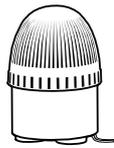
Rear view



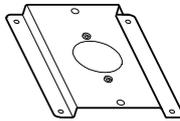
Item	Description	Item	Description
1	Power LED: Illuminates when the Monitor is receiving power	11	Connection to Alarm Beacon, 12 Vdc, 100 mA
2	Run LED: Illuminates when the firmware is successfully started	12	Connection to lights in front (Light 1) and rear (Light 2) of the Easy Micro Data Center, 12 Vdc, 600 mA, each
3	Alert LED: Flashes when an alarm is present <ul style="list-style-type: none"> Flashing every 8 seconds = informational event Flashing every 2 seconds = warning alarm is present Flashing ever 0.5 seconds = critical alarm is present 	13	Connection to private local area network
4	Reset button	14	Connection to public local area network
5	On-the-Go (OTG) USB/USB 5 Vdc, 10 mA (Used to update the firmware, see)	15	Connection to touchscreen display (EMDC42UP1 only)
6	Console port, 5 Vdc, 10 mA (Used to read system information through the Monitor Command Line Interface. Remove connections to the console port when it is not in use)	16	Connection to Leak Rope sensor, 12 Vdc, 50 mA
7	AC Input: Power supply to the Monitor, C14, 220–240 Vac, 0.4 A	17	Connection to Smoke Sensor, 12 Vdc, 50 mA
8	On/Off switch	18	Connection to UPS, RS232, 12 Vdc, 50 mA
9	Connection to Indoor Cooling Unit, RS485, 12 Vdc, 50 mA	19	Connection to Power Distribution Panel, 12 Vdc, 50 mA (Provides communication for Surge Protection Device, Maintenance Bypass sensor, Energy Meters, and Emergency Fans)
10	Connection to Temperature/Humidity sensors, RS485, 12 Vdc, 50 mA (see Easy Micro Data Center Features, page 14 for sensor locations)		

NOTE: Unmarked ports are reserved for future use. Do not connect equipment to these ports.

Accessory Box

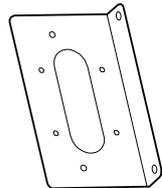


Alarm Beacon.



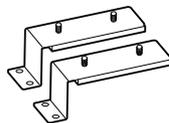
Roof-mount smoke sensor bracket. Used to mount a third-party smoke sensor to the inside of the roof with the M3 x 6 screws in the accessory box.

Not included in EMDC42U6KP2V, EMDC24U3KP2V.



Frame-mount smoke sensor bracket. Used to mount a third-party smoke sensor to the rear frame with the M6 screws and cage nuts in the accessory box.

Not included in EMDC42U6KP2V, EMDC24U3KP2V.



Brackets for optional Condensate Pump (2).

Not included in EMDC42U6KP2V, EMDC24U3KP2V.

Not shown

Hardware bag with screws and cage nuts (see Hardware Bag, page 19).

Hardware Bag



Plastic cup washer (60)



M6 x 16 Phillips slot screw (60)



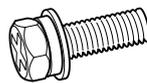
Cage nut (60)



Torx T30 / #2 Phillips tool (1)



Cage nut tool (1)



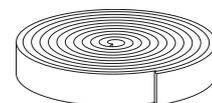
M5 x 12 screw for EcoStruxure IT Gateway mounting bracket (1)



M3 x 6 Flat head screws for smoke sensor bracket (4)
(Not included in EMDC42U6KP2V, EMDC24U3KP2V)



M5 x 12 Flat head screws for joining (4)
(EMDC42U6KP2V, EMDC24U3KP2V, only)



Adhesive foam, 3 m (3) (Not included in EMDC42U6KP2V, EMDC24U3KP2V)

Items Shipped Separately

Cooling units and cooling accessories, UPS units, UPS batteries, Rack PDUs, cable managers, and the EcoStruxure IT Gateway are all shipped separately and must be installed at the customer site. Some equipment is optional, depending on the model of your Easy Micro Data Center. See [General Information](#), page 9 for details.

Refrigerant Piping: If your Easy Micro Data Center system includes a cooling unit, refrigerant piping to fit your Easy Micro Data Center and the piping requirements necessary for your installation will be included with the shipment. Top piping, standard bottom piping, and bottom piping for under a raised floor are the available options.

Preparation

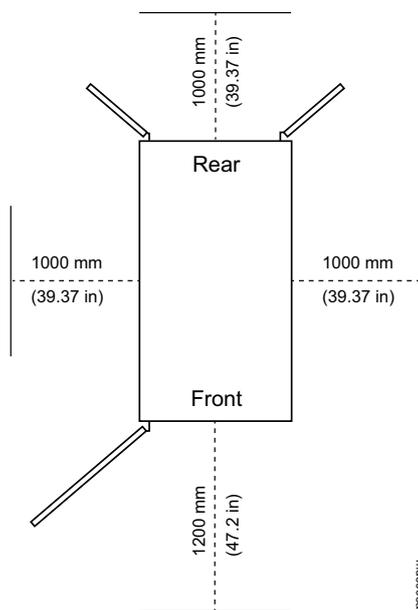
Before installing the Easy Micro Data Center, you must determine its final location and ensure that all required equipment is available. Ensure that the mains power connection meets the required specifications (see *Equipment Required*, page 22).

Location

Consider the location for your Easy Micro Data Center prior to its arrival. You must have access to the building power supply. Consult the *Cooling Unit Installation Manual* and consider location requirements for the Outdoor Cooling Unit.

At the final location, ensure there is enough space around the Easy Micro Data Center to open the doors, remove side panels, and provide reasonable working space. Leave 1200 mm (47.2 in) of space in front of the Easy Micro Data Center. Leave 1000 mm (39.37 in) of space around the rest of the Easy Micro Data Center.

Micro Data Center model	Cabinet dimensions	Recommended floor space (W x D)
EMDC24UP1, EMDC24U3KP2, EMDC42UP1, EMDC42U6KP2, EMDC42U6KP2V	600 x 1200 mm (24 x 47 in)	2600 x 3400 mm (102 x 134 in)
EMDC24U3KP2V	600 x 1000 mm (24 x 39 in)	2600 x 3200 mm (102 x 126 in)



NOTE: Floor space recommendations are affected by the maximum angle to which the doors can open:

- EMDC24UP1, EMDC24U3KP2, EMDC42UP1, EMDC42U6KP2: 110°
- EMDC24U3KP2V, EMDC42U6KP2V: 140°

Equipment Required

The following equipment is not provided. Carefully examine your installation plan and determine which items are needed. The length of all cables and piping must be determined by the installation location and configuration of your EcoStruxure Micro Data Center.

Cooling (see your cooling documentation for additional details):

- Insulated Piping, Indoor Cooling Unit to Outdoor Cooling Unit, ASTM B88 Type L or ASTM B 280 Type ACR
- Pipe extensions for cooling unit gravity drain, PVC with embedded spring wire, 17 mm outer diameter, 13 mm inner diameter, tightened with clamp
- Additional Gas Charge
- Mounting stand/wall bracket for Outdoor Cooling Unit
- Communication cables from indoor cooling unit to outdoor cooling unit, PLTC 2 x 0.5 mm²
- Power connection to outdoor cooling unit, H05VV-F 3 x 1.5 mm²
- Bottom pipe kit (optional)
- Tools for cooling installation: vacuum pump, pressure gauge (R410a), flaring tool, copper pipe cutter, deburring tool, hammer drill, 65 mm drill bit, adjustable wrench, M4 Phillips screwdriver, M3 flat head screwdriver, 5 mm hex wrench, diagonal cutting pliers, scissors, measuring tape, multimeter, ladder, hammer, pen

Input Power Connection

It is recommended that you use YJV3 core cables. When the ambient temperature is 40 °C (104 °F), the conductor working temperature should not exceed 90 °C (194 °F).

Power Cord Recommendations by Model

Model	Wire Thickness
EMDC24UP1, EMDC24U3KP2, EMDC24U3KP2V	8–9 AWG
EMDC42UP1, EMDC42U6KP2, EMDC42U6KP2V	6–7 AWG

Move the Easy Micro Data Center

▲ WARNING

TIP / HEAVY EQUIPMENT HAZARD

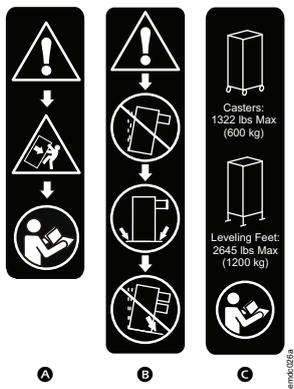
- The Micro Data Center can be tipped. Use extreme caution when unpacking or moving.
- Use at least two people to unpack and move a 24U Micro Data Center. Use at least four to unpack and move a 42U Micro Data Center.
- When moving the Micro Data Center on its casters, ensure the path of the Micro Data Center is free of obstacles and debris.
- When moving the Micro Data Center on its casters, ensure the leveling feet are up and push the cabinet from the front or rear. Never push the Micro Data Center from the sides.

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

You can push the Micro Data Center on its casters or lift the Micro Data Center using eye bolts. It is strongly recommended that you move the Easy Micro Data Center to its final location before installing additional equipment for two reasons:

1. There is equipment pre-installed in the Easy Micro Data Center, which makes it very heavy.
2. The first equipment to install in the Easy Micro Data Center is the Indoor/Outdoor Cooling Units and Cooling Pipes. This installation will make the Easy Micro Data Center difficult to move.

Labels



The labels shown (left) can be found on the cabinet and serve to communicate the following information:

- A** Generic tip hazard.
- B** Extend slide-mounted hardware one piece at a time.
- C** Weight ratings for casters and leveling feet:
 - **Casters:** The Easy Micro Data Center can be moved on its casters with up to 600 kg (1,322 lb) equipment installed. This includes the pre-installed equipment (see the Equipment Weight and Static Capacity table in this section).
 - **Leveling feet:** Once in place, lower the leveling feet. With the leveling feet lowered, the Easy Micro Data Center can be loaded with up to 1,200 kg (2,645 lb) of equipment. The amount of equipment you can install depends on the weight of the equipment pre-installed in the Easy Micro Data Center.

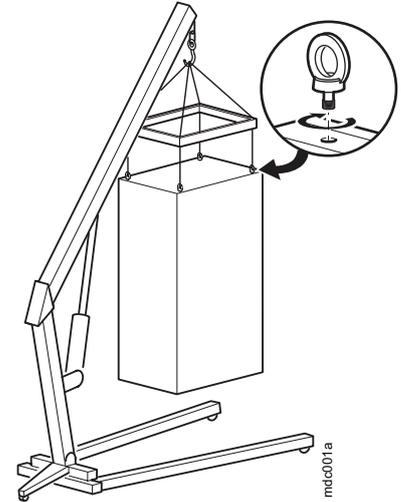
Equipment Weight and Static Capacity

Model	Pre-installed equipment weight	Remaining capacity: 1,200 kg (2,645 lb) – pre-installed equipment weight
EMDC42UP1	22 kg (49 lb)	1,178 kg (2,596 lb)
EMDC24UP1	22 kg (49 lb)	1,178 kg (2,596 lb)
EMDC42U6KP2	36 kg (79 lb)	1,164 kg (2,566 lb)
EMDC42U6KP2V	36 kg (79 lb)	1,164 kg (2,566 lb)
EMDC24U3KP2	32 kg (71 lb)	1,168 (2,574 lb)
EMDC24U3KP2V	32 kg (71 lb)	1,168 (2,574 lb)

Eye Bolts

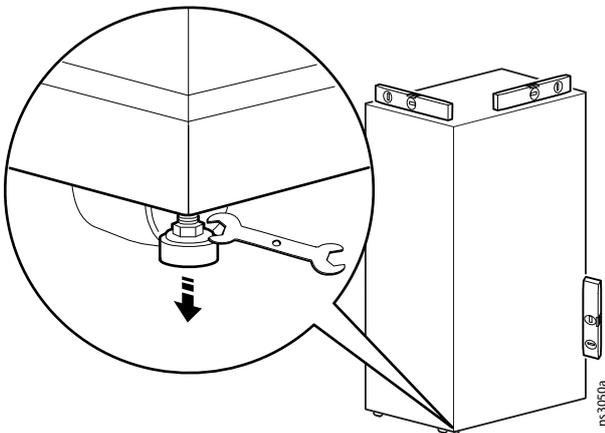
You can lift the cabinet with up to 225 kg (496 lb) equipment installed. This includes the pre-installed equipment (see the Equipment Weight and Capacity table in this section). Use M10 eye bolts (not provided). Use appropriate lifting hardware to ensure a straight-line pull on the eye bolts.

NOTE: Each individual frame lift point is capable of lifting 255 kg (560 lb).



Level the Micro Data Center

NOTE: The leveling feet at the corners of the equipment can help provide a stable base if the floor is uneven, but they cannot compensate for a badly sloped surface.



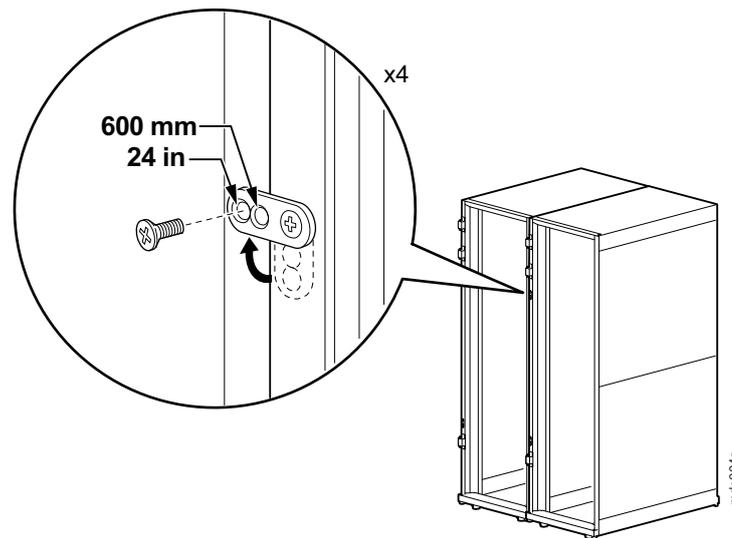
1. Ensure the Micro Data Center is in its intended location.
2. Use a 13-mm open-ended wrench to turn the leveling feet to the right. Continue adjusting each leveling foot until it makes firm contact with the floor.
3. Using a level, adjust each foot until the cabinet is level and plumb.

Joining Easy Micro Data Centers

EMDC42U6KP2V, EMDC24U3KP2V only

You can join ventilated models of the Easy Micro Data Center to provide alignment and additional stability.

1. If the front and rear doors are installed, remove them (see [Doors](#), page 27).
2. Align the Easy Micro Data Centers.
3. Locate the joining brackets. There are two brackets on the front of the frame and two brackets on the rear of the frame. Choose between 24-in centers and 600-mm centers. Then use the provided M5 x 12 flat head screws to join the frames.



Ground the Micro Data Center

⚡⚠ DANGER

HAZARD OF ELECTRIC SHOCK

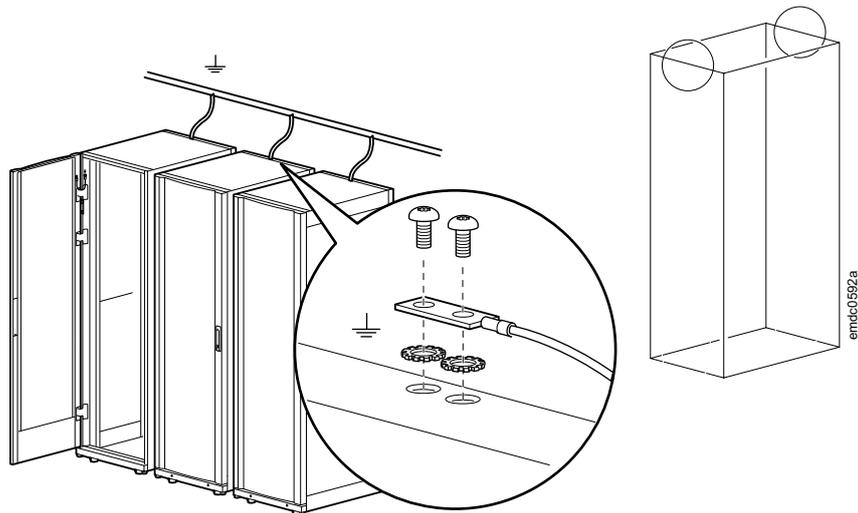
The Micro Data Center must be connected to the building Common Bonding Network (CBN).

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

The doors are grounded to the frame with 16-mm² (6 AWG) grounding wires. The side panels are grounded to the frame with grounding clips.

Each Easy Micro Data Center should be connected directly to a the Building Common Bonding Network using one of the designated grounding locations (two M6 threaded inserts) at the top of the frame.

- Use a Common Bonding Network Jumper kit (for example, Listed [KDER] Panduit® RGCBNJ660PY or equivalent).
- Use paint-piercing washers between the ground terminal and the cabinet frame, or remove the paint on the frame under the ground terminals, per NEC NFPA 70 Article 250.12.
- Torque the screws to 6.9 N•m (60 lb-in).



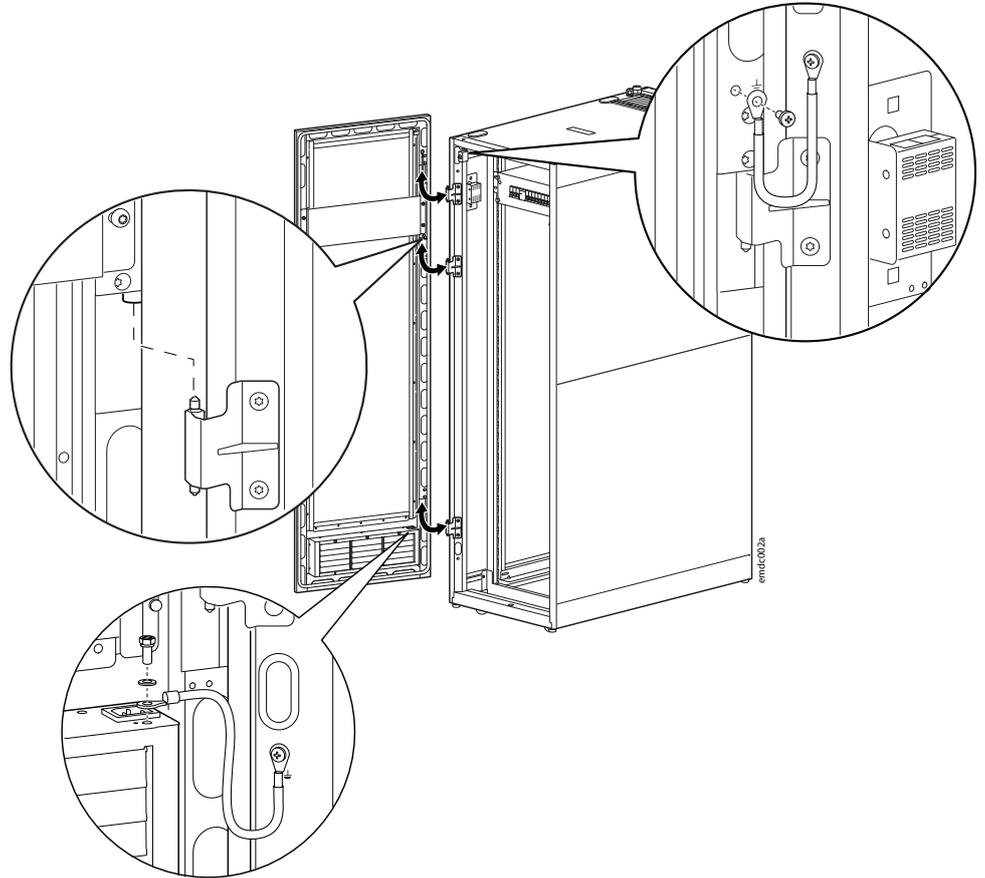
Doors

⚠️⚠️ DANGER

HAZARD OF ELECTRIC SHOCK

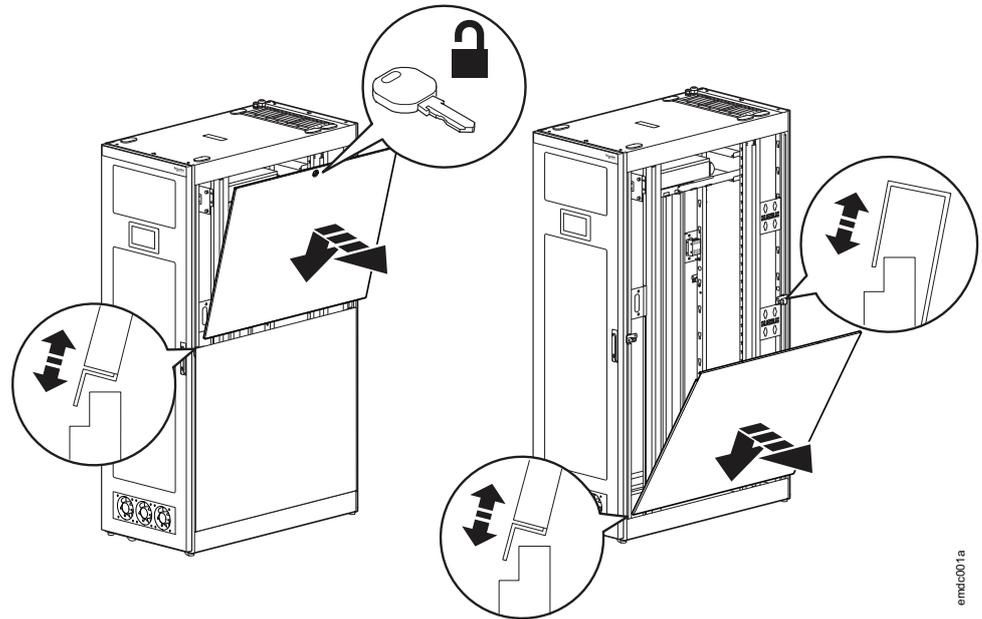
When installing the doors, reconnect all ground and other connection wires.

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

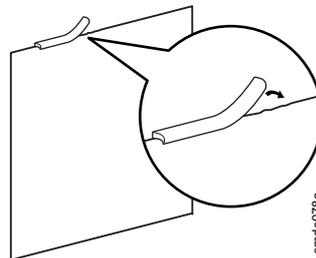


Side Panels

The top side panel rests on top of the bottom side panel. To remove the panels, remove top side panel first and the bottom side panel second. To install the side panels, install the bottom side panel first and the top side panel second.



If the side panels become damaged over time, you can place the adhesive foam (included with EMDC42UP1, EMDC24UP1, EMDC42U6KP2, EMDC24U3KP2) along the edges of the panels to ensure the Easy Micro Data Center remains sealed.



Installation

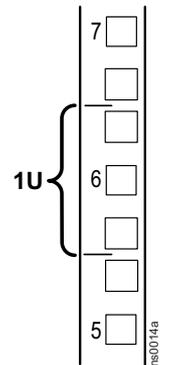
⚠ WARNING

TIP HAZARD

- Install the heaviest equipment first and toward the bottom of the cabinet to prevent the Micro Data Center from becoming top-heavy.
- Extend slide-mounted hardware one piece at a time.

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

1. Review the installation documents for each piece of equipment.
2. Locate the top and bottom U-space on the vertical mounting rails. Every third hole on the mounting rails is numbered to indicate the middle of a U-space.
3. Install the cage nuts on the interiors of the vertical mounting rails (see *Install a Cage Nut*, page 30). Then install the equipment.



Install a Cage Nut

If needed, APCSchneider Electric offers a cage nut hardware kit (AR8100) for use with square holes.

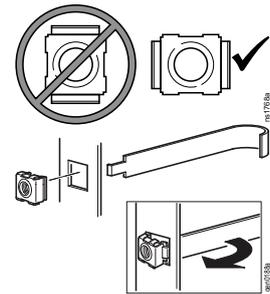
⚠ CAUTION

FALLING EQUIPMENT HAZARD

Install cage nuts horizontally, with the tabs engaging the left and right sides of the square hole. Do NOT install cage nuts vertically with the tabs engaging the top and bottom of the square hole.

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

1. Install the cage nuts on the interior of the vertical mounting rails. Insert the cage nut into the square hole by hooking one ear of the cage nut through the far side of the hole.



2. Place the cage nut tool on the other side of the cage nut and pull to snap it into position.

Remove a Cage Nut

1. Remove any attached screw.
2. Grasp the cage nut and squeeze the sides to release it from the square hole.

Order of Installation

Before installing the equipment, ensure the following:

- The Easy Micro Data Center is in its final location (see Location, page 21).
- The Easy Micro Data Center is level (see Level the Micro Data Center, page 24) and grounded (see Ground the Micro Data Center, page 26).

Follow all safety instructions provided with your equipment. See the individual installation manuals for each piece of equipment on www.se.com or www.apc.com. To find a document, enter the part number of the equipment in the Search bar, navigate to the appropriate product page, and select the **Documentation** tab. See Documents included with your Easy Micro Data Center, page 12 for details.

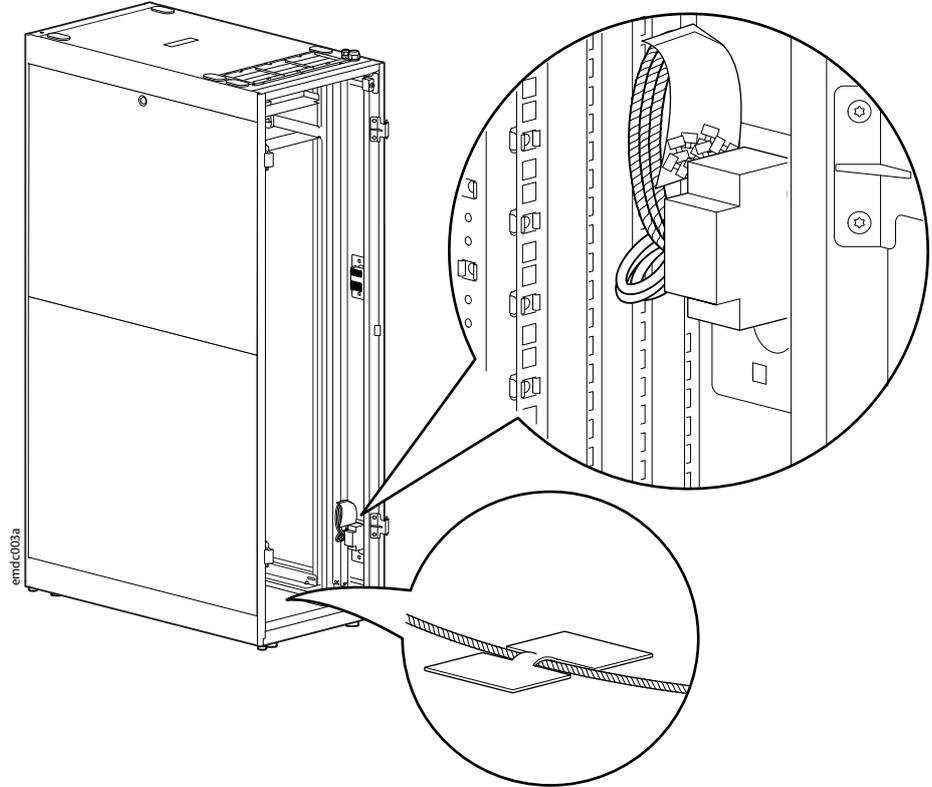
Assemblies may vary by model. Skip any equipment that is not part of your assembly.

1. Place the Leak Rope for the Water Leakage Sensor, page 31
2. Install the Alarm Beacon, page 31
3. Install the Cooling Equipment, page 32
4. Install the UPS and Battery Pack, page 36
5. Install the Rack PDUs, page 37
6. Optional: Fire Suppression, page 38
7. Install the EcoStruxure IT Gateway Appliance, page 39
8. Optional: Additional Equipment, page 40
9. Connect Utility Power to the Power Panel, page 41

Place the Leak Rope for the Water Leakage Sensor

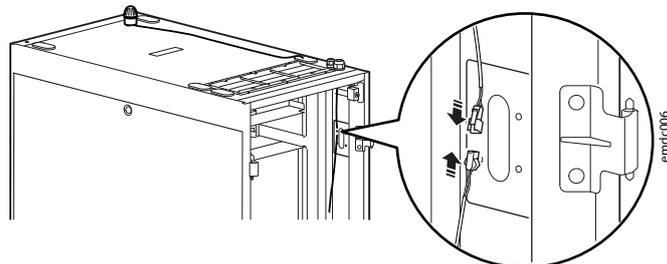
The Leak Rope provides information to the Water Leakage Sensor. Remove the cable ties securing the Leak Rope and place it on the floor of the Micro Data center as needed to detect water. You can use the adhesive brackets to keep the Leak Rope in place.

Do not disconnect the Leak Rope from the Water Leakage Sensor.



Install the Alarm Beacon

The Alarm Beacon has magnetic feet to hold it in place. Place the Alarm Beacon where it can easily be seen on top of the Easy Micro Data Center. Route the Alarm Beacon wire through the rear-right entry point and connect it to the pre-installed connection point inside the Easy Micro Data Center.



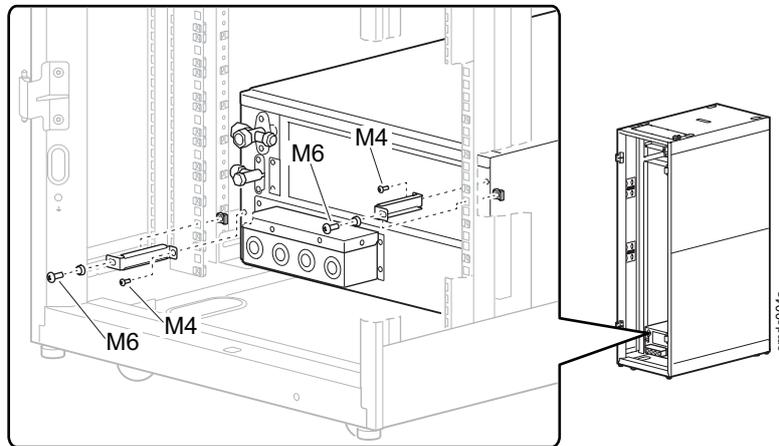
Install the Cooling Equipment

NOTES:

- Check your Cooling Unit *Installation Manual* to determine whether the refrigerant needs to be charged. If the distance between the Indoor Cooling Unit and Outdoor Cooling Unit is greater than 5 m (16.4 ft), pre-charged units will require additional refrigerant.
- Perform all the commissioning checks, leak detection, and vacuum pumping procedures as directed in your Cooling Unit *Installation Manual*.
- This procedure refers heavily to the manuals for your cooling equipment. See Documents included with your Easy Micro Data Center, page 12 for the manual part numbers.

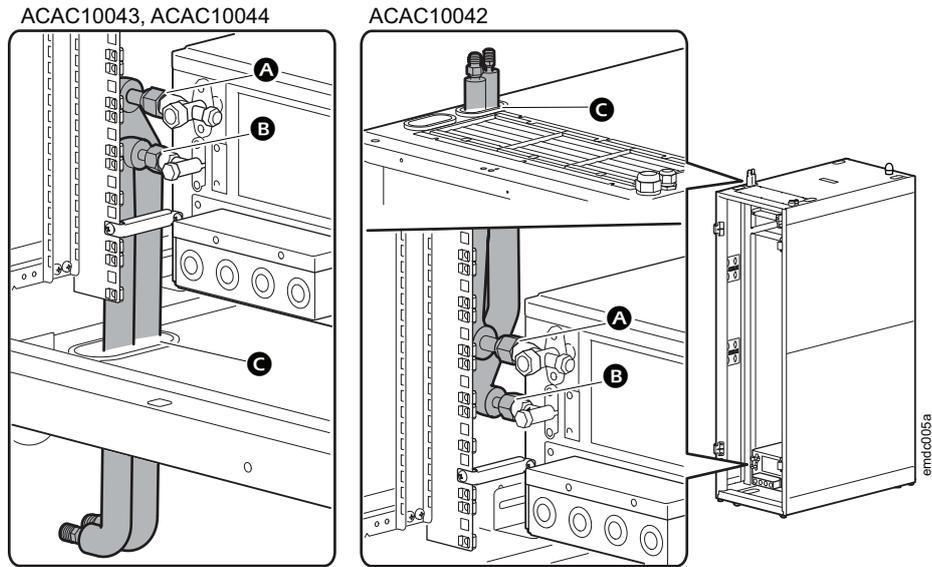
1. Install the Indoor Cooling Unit according to the instructions in the Cooling Unit *Installation Manual*.

The standard Cooling Unit brackets do not fit the Easy Micro Data Center. Install the Cooling Unit at the bottom of the cabinet with the pre-installed rear-mounting brackets. Use the plastic cup washers, M6 screws, and cage nuts from the hardware bag to secure the brackets to the cabinet as shown. Use the M4 x 12 screws included with the Cooling Unit assembly to attach the brackets to the Cooling Unit.



NOTE: If you do not intend to install a Condensate Drain Pump, ensure the condensate drain hose slants downwards from the Indoor Cooling Unit so that it can drain properly.

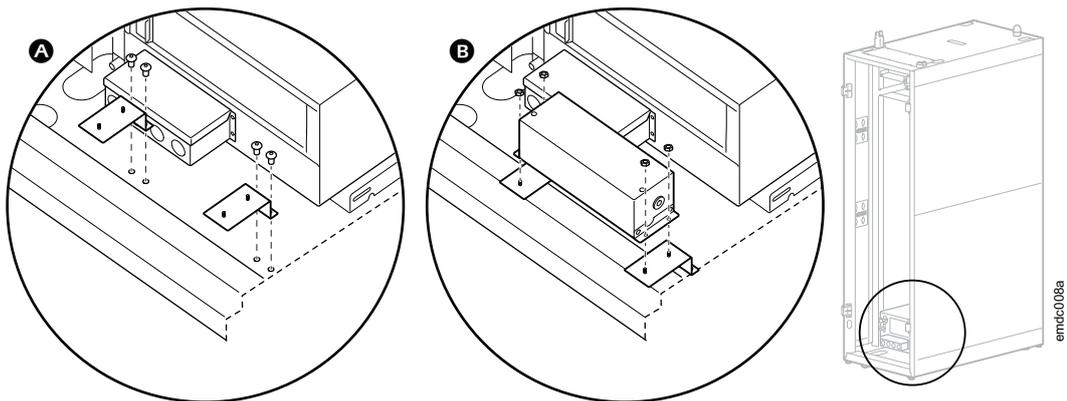
2. Connect the suction line valve (A) and liquid line valve (B) to the Indoor Cooling Unit as shown. Depending on the model of your refrigerant piping kit (ACAC10042, ACAC10043, ACAC10044), the pipes may exit the Easy Micro Data Center through entry points at the top or the bottom of the cabinet (C).



3. If needed, install the following optional cooling equipment according to the directions provided for the equipment:

- Cooling Display Unit Interface (ACAC10045)
- Low Temperature Kit (ACAC10040)
- Condensate Drain Pump (ACAC10039)

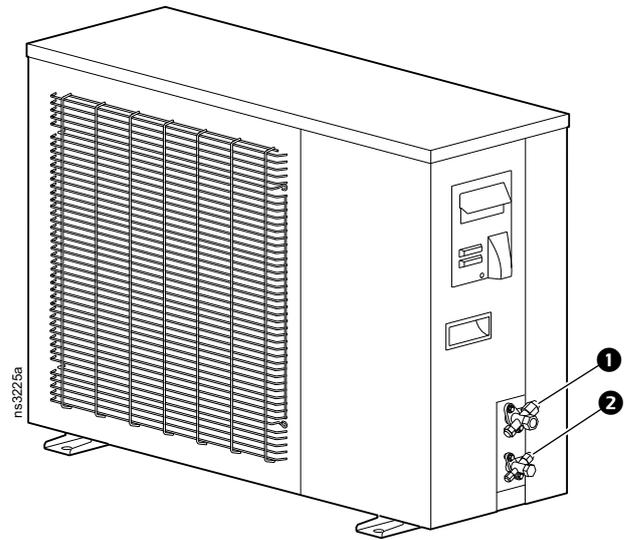
Brackets for the Condensate Drain Pump (if included) are shipped in the accessory box. The designated locations for the brackets are filled with M5 hole plugs. To install the condensate drain pump, remove the M5 hole plugs in the rear of the Easy Micro Data Center. Secure the brackets with M5 screws (A, not provided). Then secure the condensate drain pump to the brackets with M4 nuts (B, not provided).



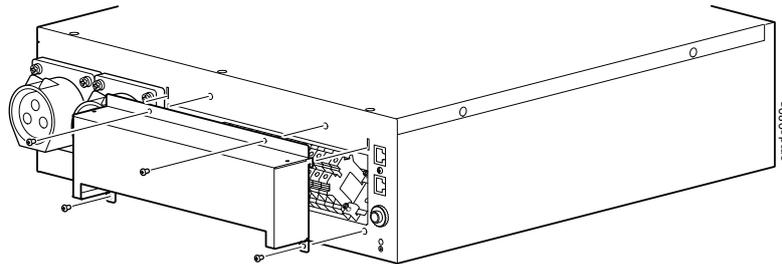
4. Follow the instructions in the Cooling Unit *Installation Manual* to install the Outdoor Cooling Unit. Connect the suction line valve (❶) and the liquid line valve (❷) to the appropriate refrigerant pipes in the Easy Micro Data Center. Follow the instructions in the Cooling Unit *Installation Manual* to make the communication connections to the Indoor Cooling Unit.

NOTES

- Do not remove the covers of the line valves before connecting the pipes.
- Ensure the connections between the valves and the pipes are tight.
- When uncoiling the insulated piping, hold one end of the pipe to the ground and roll the other end out slowly to prevent deformation.
- The length of pipe between the indoor and outdoor unit should not exceed 20 m (66 ft).



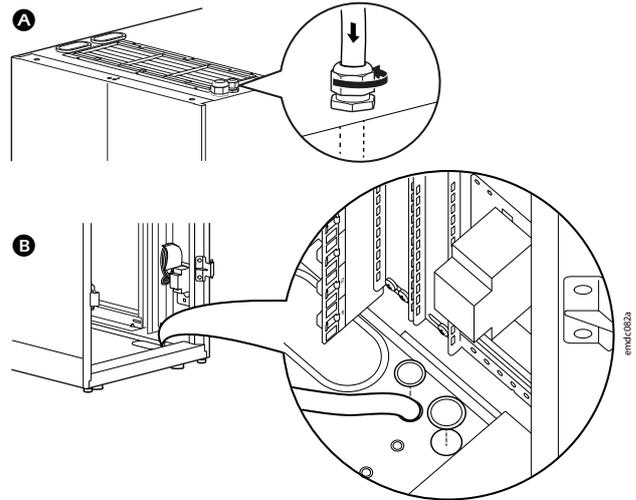
5. Remove the cover on the terminal block in the rear of the Power Distribution Panel by loosening the M3 Screws. Retain the screws.



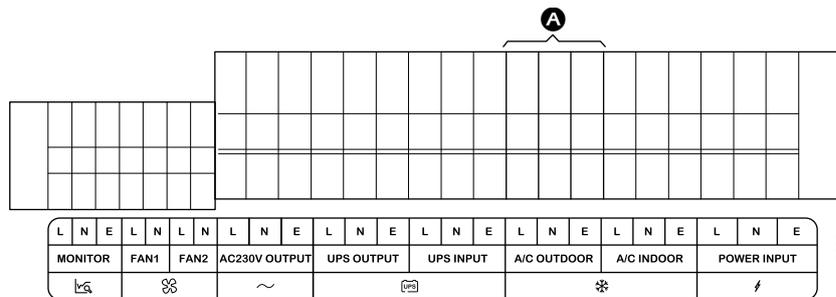
NOTE: Do not replace the cover until you have made all required terminal block connections for additional equipment and the mains power supply.

6. Connect power to the Outdoor Cooling Unit.

Routing options: You can route the power connection to the Outdoor Cooling unit through the top (A) or bottom (B) entry points in the Easy Micro Data Center.

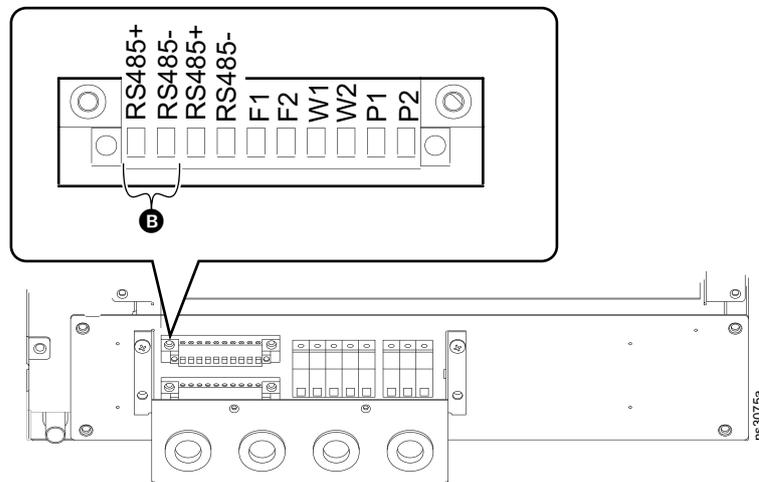


Connections: Follow the instructions in the Cooling Unit *Installation Manual* to make the power connection to the Outdoor Cooling Unit, then connect the Outdoor Cooling Unit to the Power Distribution Panel. Use 1.5–1.8 N•m (13.3–15.9 lb-in) of torque to connect the Line (L), Neutral (N), and Ground/Earth (E) wires (not provided) to the designated terminals on the Power Distribution Panel (A).



7. The power cable for the Indoor Cooling Unit is pre-installed to the Power Distribution Panel and secured in the left cable management panel in the rear of the rack. The labels on the Line (L), Neutral (N), and Ground (G) connections are **AC-IN-L**, **AC-IN-N**, and **AC-IN-G**, respectively. Connect the cable to the Indoor Cooling Unit as directed in the Cooling Unit *Installation Manual*.

8. The communication cable for the Indoor Cooling Unit is pre-installed to the Monitor and secured in the right cable management panel in the rear of the rack. The connection points are labeled **RS485-** (blue wire) and **RS485+** (brown wire). Connect the cable to the leftmost RS485 ports on the Indoor Cooling Unit (B). See the Cooling Unit *Installation Manual* for more information.

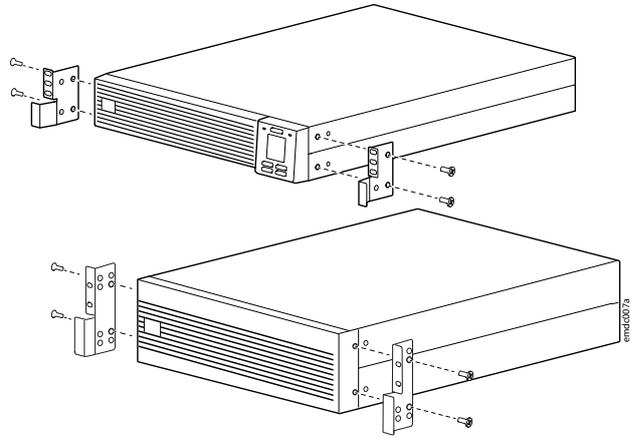


Install the UPS and Battery Pack

This procedure refers heavily to the manuals for your UPS and Battery Pack. See Documents included with your Easy Micro Data Center, page 12 for the manual part numbers.

1. If your assembly includes a battery pack, mount the battery pack first and the UPS second.

Mounting brackets and screws are included with the Battery Pack and UPS assemblies. Attach the mounting brackets to the Battery Pack and UPS units so that rearmost holes of the brackets align with the frontmost holes on the units. This prevents the Battery Pack and UPS from blocking airflow from the Indoor Cooling Unit (if included).

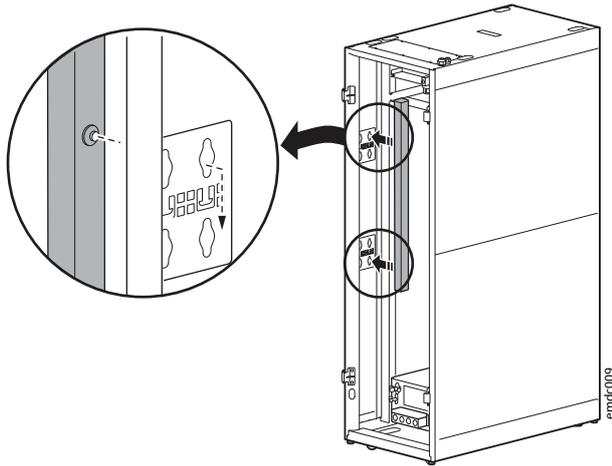


2. If a Cooling Unit is included in your Easy Micro Data Center, install the Battery Pack and UPS directly above the Cooling Unit. Otherwise, install the Battery Pack and UPS in the bottom of the Easy Micro Data Center. Use the mounting rails as directed in the Battery Pack and UPS documentation.
3. Connect the Battery Pack to the UPS as directed in the documentation for your battery pack. If required, ground the Battery Pack to the UPS.
4. Connect the UPS to the Power Distribution Panel. The input (**UPS In**) and output (**UPS Out**) power cables are pre-installed to the Power Distribution Panel and secured to the left cable management panel in the rear of the Easy Micro Data Center.

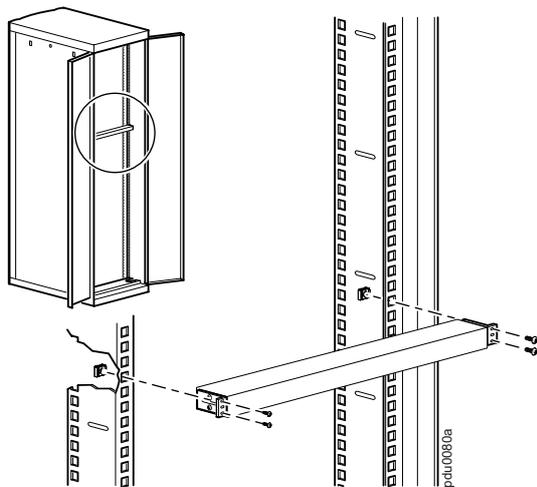
6 kVA UPS: The Line, Neutral, and Ground connection points on each cable are labeled **N** (blue wire), **L** (brown wire), and **G** (green and yellow wire), respectively. (For example, the input connections are labeled **UPS-I-N**, **UPS-I-L**, and **UPS-I-G**). Connect the input and output power cables to the terminal block as instructed in your UPS manual. The ground terminal will be shared by the **UPS In** and **UPS Out** cables. Use 1.5–1.8 N•m (13.3–15.9 lb-in) of torque.

3 kVA UPS: Connect the pre-installed input (**UPS In**) and output (**UPS Out**) plugs to the UPS input and output as directed in your UPS *Installation Manual*.
5. Connect the UPS to the Monitor. The communication cable is pre-installed to the Monitor and secured to the right cable management panel in the rear of the Easy Micro Data Center. The cable is labeled **UPS RS232**. Connect the cable to the RS232 port on your UPS (see the UPS manual for details).

Install the Rack PDUs



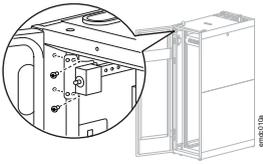
0U Rack PDU models: Use the toolless mounting pegs to mount the PDU to the designated brackets in the rear of the Easy Micro Data Center.



1U Rack PDU models: Install the PDU in the desired location on the vertical mounting rails. Use the M6 screws and cage nuts provided.

Connect the PDUs to the designated outlets on the Power Distribution Panel (see Power Distribution Panel Description, page 16).

Optional: Fire Suppression



You can install a third-party, rack mounted Fire Suppression Unit (not provided) in the top two U-spaces of the Easy Micro Data Center. Follow all Installation procedures and safety instructions provided with the Fire Suppression Unit.

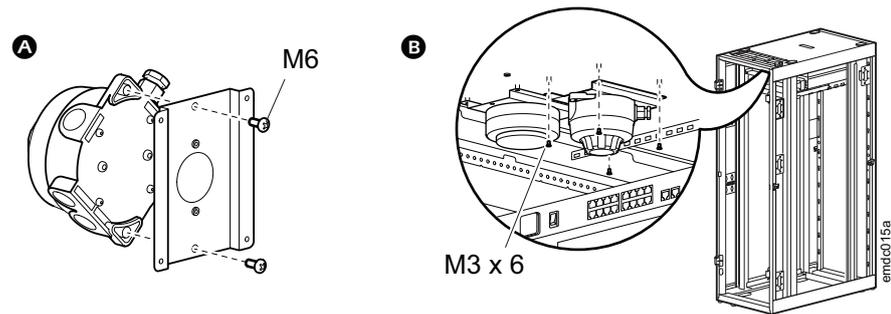
Before Installing the Fire Suppression Unit, you may need to remove the Door Switch Sensor at the top of the Easy Micro Data Center by removing the two M4 screws that secure the sensor to the frame. Save the screws and the Door Switch Sensor, and re-install them after the Fire Suppression Unit is in place.

To help protect your equipment, ensure that the extinguishant pipes reach at least 80 mm (3 in) beyond the rear mounting rails.

It is likely that you will also need to install smoke sensors with the Fire Suppression Unit, as there is no open U-space below the unit. Internal sensors that detect smoke from the bottom of the Unit will be blocked by the Monitor. For this purpose, two mounting brackets are included in the accessory box of contained models: EMDC42UP1, EMDC24UP1, EMDC42U6KP2, and EMDC24U3KP2. One bracket is for roof mounting and one is for frame mounting.

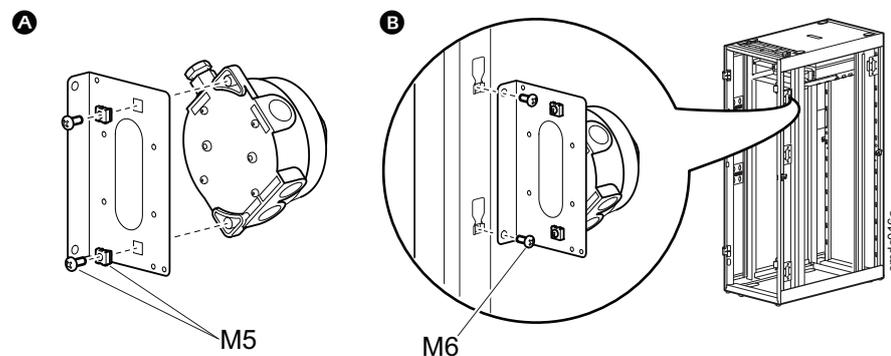
Roof mounted Smoke Sensor

Secure one Smoke Sensor to the roof-mount bracket (included in the Accessory Box) with M6 self-tapping screws (not provided) **A**. Then use M3 x 6 flat-head screws (included in the Hardware Bag) to secure the bracket to the top of the Easy Micro Data Center behind the Fire Suppression Unit as shown **B**.



Frame mounted Smoke Sensor

Secure a Smoke Sensor to the side-mount bracket (included in the Accessory Box) with M5 screws and cage nuts (not provided) **A**. Then use M6 cage nuts and screws (included in the Hardware Bag) to secure the bracket to the rear frame of the Easy Micro Data Center as shown **B**.

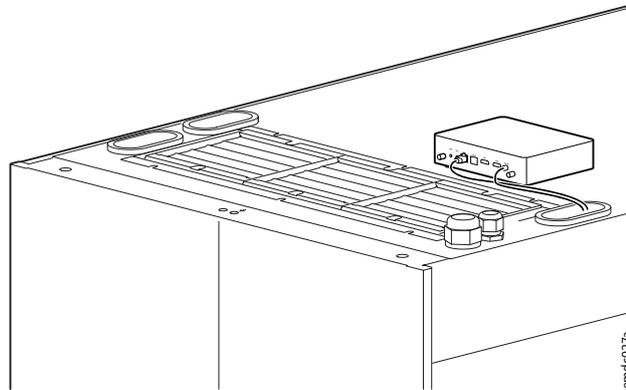


Install the EcoStruxure IT Gateway Appliance

You can install the EcoStruxure IT Gateway appliance on the roof of the Easy Micro Data Center or on the top shelf in the rear of the Easy Micro Data Center.

Roof Installation

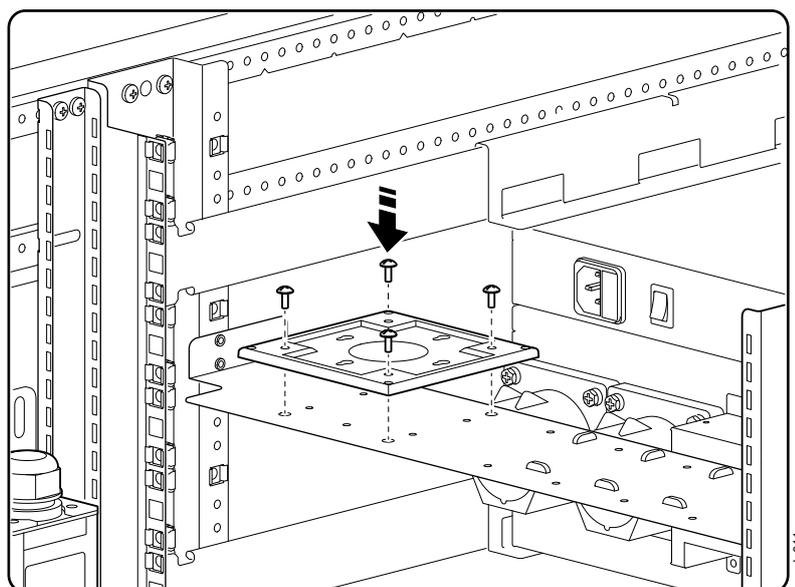
1. Place the Gateway appliance on top of the Easy Micro Data Center.



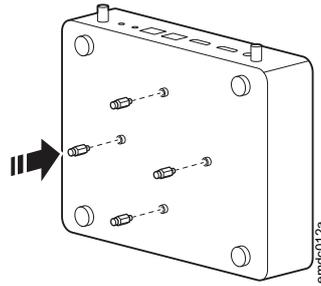
2. Connect the power cable provided with the Gateway appliance to the DC-IN port on the Gateway and a Rack PDU. You can route the cable through any of the grommets on top of the Easy Micro Data Center.
3. Use a CAT5 Ethernet cable to connect the LAN1 port of the Gateway appliance to the Public port on the Monitor. You can route the cable through any of the grommets on top of the Easy Micro Data Center.
4. After you provide power to the Power Distribution Panel and start up the Easy Micro Data Center, follow the instructions provided with the EcoStruxure IT Gateway appliance and go to helpcenter.ecostruxureit.com to finish setting up the Gateway appliance.

Shelf Installation

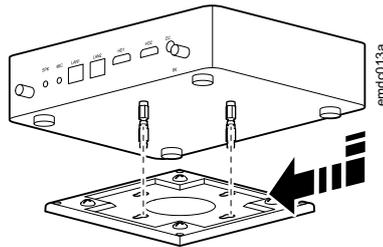
1. Secure the mounting bracket to the shelf with M4 screws. Both the mounting bracket and the M4 screws are included with the Gateway appliance.



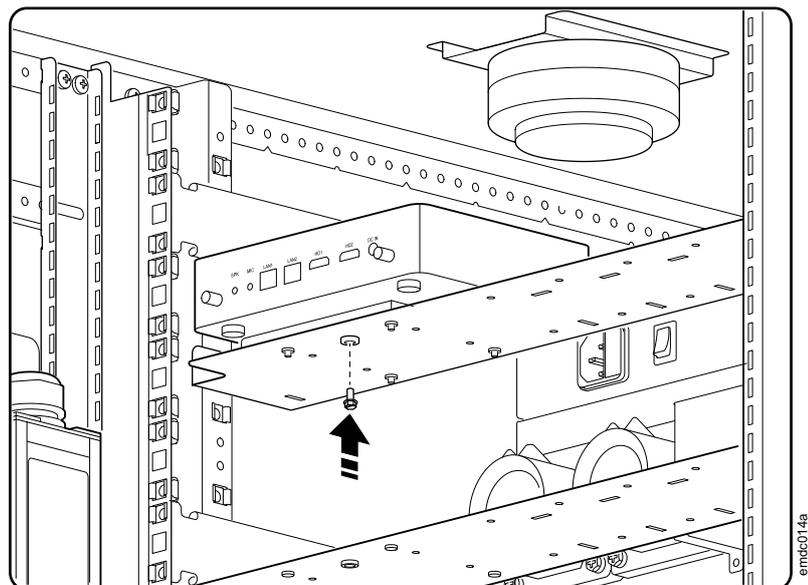
2. Screw the four mounting feet (included with the Gateway assembly) to the bottom of the Gateway appliance as shown.



3. Insert the mounting feet into the holes of the mounting bracket, then slide the Gateway appliance forward.



4. Install the M5 screw with flat and split washers (included in the Easy Micro Data Center Hardware Bag) into the shelf as shown. The M5 screw helps hold the Gateway appliance in place.



5. Connect the power cable provided with the Gateway to the DC-IN port on the Gateway and a Rack PDU.
6. Use a CAT5 Ethernet cable to connect the LAN1 port of the Gateway appliance to the Public port on the Monitor.
7. After you provide power to the Power Distribution Panel and start up the Easy Micro Data Center, follow the instructions provided with the EcoStruxure IT Gateway appliance and go to helpcenter.ecostruxureit.com to finish setting up the Gateway appliance.

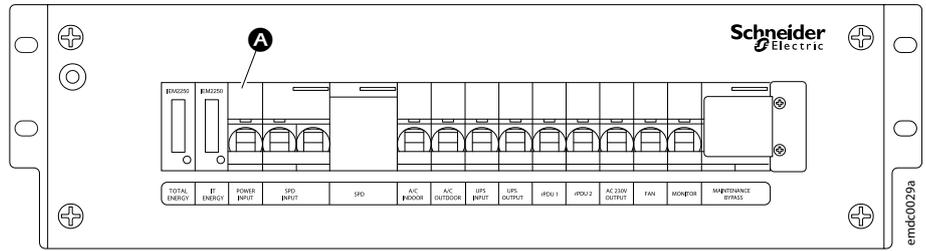
Optional: Additional Equipment

If needed, connect properly rated equipment to the AC230V output terminals on the Power Distribution Panel.

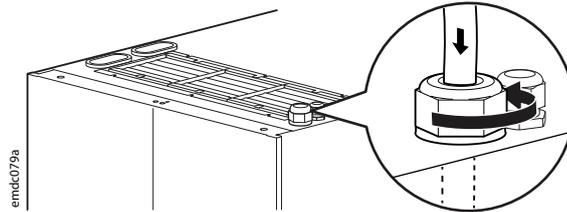
Connect Utility Power to the Power Panel

Before connecting the utility power, ensure that your cables meet the Input Power Connection specifications under Equipment Required, page 22 .

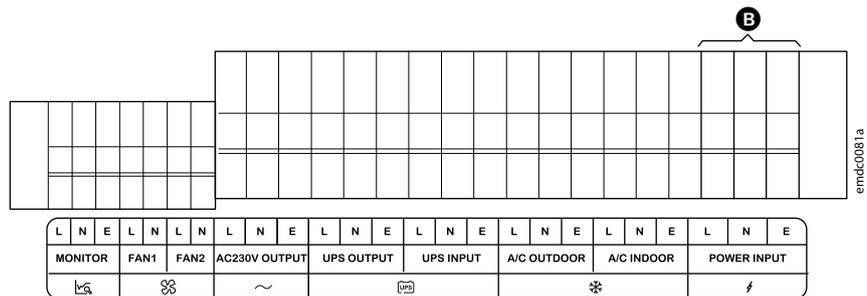
1. Turn OFF the power input breaker (A).



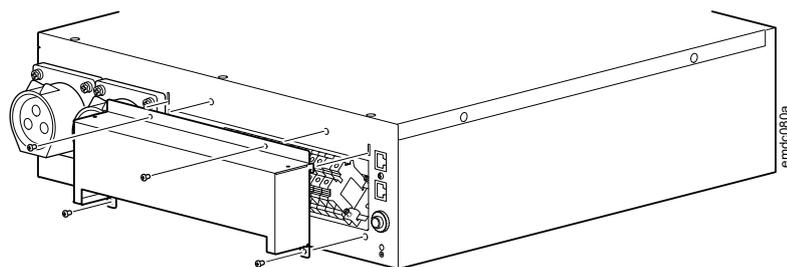
2. Loosen the cover on the rearmost entry point. Thread the power cable through the entry point, then tighten the cover.



3. Connect utility power to the designated terminals (B). Use 1.5–1.8 N•m (13.3–15.9 lb-in) of torque.



4. Re-install the cover for the terminal block. Use the M3 screws (retained from the procedure to Install the Cooling Equipment, page 32).



Initial Start Up

1. Ensure installation is complete. Proper installations comply with both the equipment instructions and local codes and standards.
 - The Easy Micro Data Center is level and stable in its final location.
 - All ground connections are properly installed.
 - The UPS and battery pack are installed properly and grounded if necessary.
 - All Cooling equipment has been installed properly.
 - Rack PDUs are properly installed.
 - The Leak Rope Sensor is placed where needed.
 - All optional equipment has been properly installed.
2. Perform a Safety Inspection.
 - a. Measure the upstream mains voltage and frequency. Ensure both the voltage and frequency are normal and there are no short circuits.
 - b. Confirm the distribution cables of UPS and Power Distribution Panel are correctly connected and that there are no short circuits.
 - c. Ensure all communication cables are connected according to the wiring diagram. (See *Easy Micro Data Center Features*, page 14 for the location of the wiring diagrams.)
 - d. Ensure the air conditioner is charged with refrigerant.
3. Start up the Easy Micro Data Center.
 - a. Turn ON the external AC input power switch and ensure the light of Power Distribution Panel is illuminated.
 - b. If the UPS is installed: Turn ON the UPS rear input circuit breaker.
Turn ON the UPS INPUT circuit breaker from the Power Distribution Panel and press the ON button to start the UPS. Ensure the UPS output voltage and frequency is normal without any fault indicator.
 - c. One by one, turn ON the circuit breakers of UPS OUPUT, PDU1, PDU2, FAN, and MONITOR from the Power Distribution Panel. Ensure each appliance is powered correctly as you turn on the relevant circuit breaker.
 - d. Turn ON the A/C INDOOR and A/C OUTDOOR circuit breakers. Wait for the cooling to start up automatically. Follow any commissioning steps required in the Cooling Unit *Installation Manual*.
 - e. Follow the instructions on helpcenter.ecostruxureit.com to set up the Gateway appliance.

Initial Configuration

You must configure the network settings of the Monitor before accessing the Web UI. Connect an Ethernet cable to the **Public** port of the Monitor to provide it with a connection to your Local Area Network (LAN). The Monitor automatically requests a dynamic IP address via DHCP once it has a network connection.

If you have a Metered Rack PDU, you must also configure the network settings of the Rack PDU in the Web UI of the Monitor. Network configuration is not required for Basic Rack PDUs, UPS units, or Cooling units.

Configure Network Settings With a Touchscreen Display Interface

1. Log on to the Touch Screen Display Interface with the default user name and password (both are **apc**).
2. Click **Network**. Find the **System IP** for the **Public Port**. (If no address is available, follow the procedure to [Configure Network Settings Without a Touchscreen Display Interface](#), page 44.)

NOTE: The system must be able to find a properly configured DHCP server to request an IP address.

3. Enter `https://public_ip_address` in the URL address bar of your Web browser to access the Web UI. You must include `https://` in the URL. (For example, if the public IP address is 123.45.6.7, enter `https://123.45.6.7`.)

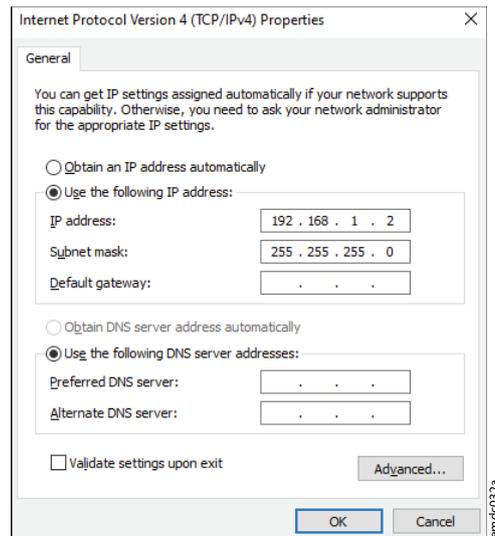
You may receive a message that the Web page is not secure. This is normal when using a self-signed certificate (the default), and you can continue to the Web UI. See for more information. See your *Easy Micro Data Center User Guide* for more detailed information on security protocols and certificates.

4. Log on to the Web UI with the default user name and password (both are **apc**). When prompted, reset the password. It is recommended that you use a strong password which conforms to your company's password requirements.
5. Check the **Firmware Version** in the **About** tab. If a new firmware version is available for your Easy Micro Data Center, it is recommended that you update the firmware immediately. You can download the latest firmware for your Easy Micro Data Center from www.se.com or www.apc.com.

Configure Network Settings Without a Touchscreen Display Interface

NOTE: You may need to disable the wireless network on some computers.

1. Select an Ethernet port on your local computer and disable any service that uses that port.
2. Connect an Ethernet cable to your computer and the **Private** port of the Monitor.
3. The **Private** port of the Monitor has the default IP address 192.168.1.10. Configure the Ethernet port of your computer within the same subnet (e.g., IP address: 192.168.1.2, Subnet mask: 255.255.255.0) to access the Monitor via your computer.



Example of network configuration on Windows

4. Enter `https://192.168.1.10` in the URL address bar of your Web browser to access the Web UI. You must include `https://` in the URL.

You may receive a message that the Web page is not secure. This is normal when using a self-signed certificate (the default), and you can continue to the Web UI. See for more information. See your *Easy Micro Data Center User Guide* for more detailed information on security protocols and certificates.
5. Log on to the Web UI with the default user name and password (both are **apc**). When prompted, reset the password. It is recommended that you use a strong password which conforms to your company's password requirements.
6. Go to **Configuration > Network > TCP/IP**. Configure the public network settings manually or via DHCP, then click **Apply**.
 - **Manual:** Configure IPv4 manually by entering the **System IP**, **Subnet Mask**, and **Default Gateway** in the appropriate fields. The assigned **System IP** is static.
 - **DHCP:** The Default setting. At regular intervals, the Monitor requests network assignment from any DHCP server. The assigned **System IP** is dynamic. If the system finds a DHCP server, but the request to that server fails or times out, it stops requesting network settings until it is restarted.

7. Check the status of the network connection: Open a new tab in your Web browser. Enter `https://public_ip_address` in the URL address bar of your Web browser to access the Web UI. You must include `https://` in the URL. (For example, if the public IP address is 123.45.6.7, enter `https://123.45.6.7`.)
Use the password you set in step 5 to log on.
8. Check the **Firmware Version** in the **About** tab. If a new firmware version is available for your Easy Micro Data Center, it is recommended that you update the firmware immediately. You can download the latest firmware for your Easy Micro Data Center from www.se.com or www.apc.com.

Configure Network Settings for Metered Rack PDUs

Configure the network settings of your Monitor before configuring the Network settings for a Metered Rack PDU.

1. Assign a Static IP address to the Metered Rack PDU. Customize the SNMP settings if needed. Follow the instructions provided in the *Metered Rack PDU User Guide* (990-6265) on www.se.com or www.apc.com.
NOTE: If you have two Metered Rack PDUs, ensure that both Rack PDUs are within the same subnet.
2. Connect the **Network** port of the Rack PDU to the **Private** port of the Monitor.
NOTE: If you have two Metered Rack PDUs, connect an Ethernet switch to the **Private** port of the Monitor. Then connect the Rack PDUs to the Ethernet switch.
3. Log on to the Web UI of the Monitor. Go to **Configuration > Network > TCP/IP**. Configure the **Private Network** settings to match the subnet of the Rack PDU.
For example, if the IP address of the Rack PDU is 192.168.1.100, then you should configure the Private network to have an **System IP** of 192.168.1.10 and a **Subnet Mask** of 255.255.255.0.
4. Go to **Configuration > RPDU**. In the **Number of Metered RPDU** list, select the number of Metered Rack PDUs present in your Easy Micro Data Center. Then click **Apply**.
5. Select **Configure connection settings** at the bottom of the page. In the **RPDU Connection Configuration** page, provide the **IP Address** of the Rack PDU.
6. Ensure that the SNMP settings for the Rack PDU in the **RPDU Connection Configuration** page match the SNMP settings in the Rack PDU Web UI (see the Rack PDU *User Guide* for instructions to configure the SNMP settings). Then click **Apply**.
7. Select the **About** tab. Ensure that the RPDU information (**Model Number**, **Firmware Version**, and **Serial Number**) appears properly.

Maintenance Bypass Procedure

NOTICE

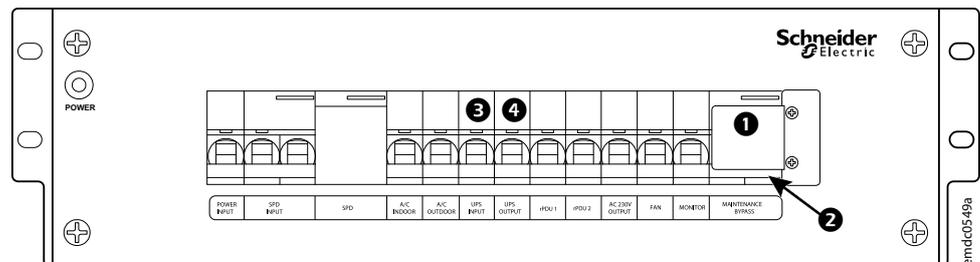
HAZARD OF ABNORMAL OPERATION

Check to ensure the UPS is in bypass mode after removing the cover on the Maintenance Bypass circuit breaker. If the UPS is not in bypass mode, follow the instructions in the UPS manual to switch the UPS to bypass mode manually.

Failure to follow these instructions can result in equipment damage.

Use this procedure to isolate the UPS for repair or replacement.

1. Remove the cover (❶) on the Maintenance Bypass circuit breaker. The UPS will then switch to bypass mode automatically.
Check to ensure the UPS is in bypass mode. If the UPS is not in bypass mode, follow the instructions in the UPS manual to switch the UPS to bypass mode manually.
2. Turn ON the Maintenance Bypass circuit breaker (❷).
3. Turn OFF the UPS INPUT circuit breaker (❸) and the UPS OUTPUT circuit breaker (❹).
4. Turn OFF the UPS and disconnect it from the power panel.
5. The UPS can now be repaired or replaced by a qualified person.
6. When repair or replacement is complete and the UPS has been installed in the Easy Micro Data Center, connect it to the power panel.
7. Turn ON the UPS INPUT circuit breaker (❸) and power on the UPS. Wait for about 30 seconds for the UPS to automatically switch to bypass mode. Check to ensure the UPS is in bypass mode.
8. Turn ON the UPS OUTPUT circuit breaker (❹).
9. Turn OFF the Maintenance Bypass circuit breaker (❷) and install the cover (❶).



Troubleshooting

Problem	Possible Cause	Solution
Ambient high temperature alarm	Cooling unit is not supplying cool air	Check the Web UI or the Display Interface for a cooling threshold alarm. Reset the alarm. Restart the Cooling Unit. If the Ambient high temperature alarm cannot be resolved, contact Schneider Electric Customer Support.
	An overload situation exists	Check that the actual load is not over the rated power threshold. If the load exceeds the rated power threshold, contact Schneider Electric Customer Support.
	The doors of the Easy Micro Data Center are not properly closed	Check and confirm that all doors are closed. If all doors are secure, and the ambient high temperature alarm cannot be resolved, contact Schneider Electric Customer Support.
	Excessive high temperature	Check that the high temperature alarm setpoint of the temperature sensors is within the set limits. If excessive high temperature persists, and the ambient high temperature alarm cannot be resolved, contact Schneider Electric Customer Support.
Door sensor alarm	The doors of the Easy Micro Data Center are not properly closed	Check and confirm that all doors are closed. If all doors are secure, and the door sensor alarm cannot be resolved, contact Schneider Electric Customer Support.
The interior light does not illuminate when the door of the Easy Micro Data Center is open	The door sensor is not making contact	Check that no cables or equipment are interfering with the door sensor. If the door sensor is making contact but the light will not function, contact Schneider Electric Customer Support.
	The door sensor cable is loose	Check and confirm that the door sensor cable is properly connected. If the cable connection is secure and the light remains off, contact Schneider Electric Customer Support.
The LCD is not on	Power is not being supplied to the Easy Micro Data Center	Check that the monitor circuit breaker (circuit breaker) is not closed. If the circuit breaker is open but the display remains off, contact Schneider Electric Customer Support.
No power to the Rack PDU	UPS is not turned on	Check the UPS to determine that it is turned on. If the UPS is on, contact Schneider Electric Customer Support.
Water leak sensor alarm	The sensor has ceased to function	Check that the sensor is functioning. If the sensor is not functioning, contact Schneider Electric Customer Support and replace the sensor.
Emergency Fans do not turn on	Power is not being supplied to the fans	Check that the fan circuit breaker is not closed. Check that the power cable to the fan module is securely connected. If the emergency fans remain without power, contact Schneider Electric Customer Support.
Cooling alarm	There is an internal cooling issue	Contact Schneider Electric Customer Support.
UPS alarm	There is an internal UPS issue	Contact Schneider Electric Customer Support.
UPS overload alarm	The load exceeds the maximum power threshold	Check that the actual total load power is within the requirements for the UPS. If an actual overload event exists, contact Schneider Electric Customer Support.

Worldwide Customer Support

Customer support for this product is available at no charge in any of the following ways:

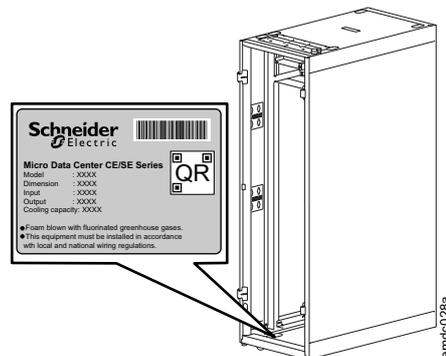
- Visit the Schneider Electric Web site to access documents in the Schneider Electric Knowledge Base and to submit customer support requests.
 - www.se.com (Corporate Headquarters)
Connect to localized Schneider Electric websites for specific countries, each of which provides customer support information.
 - www.se.com/support/
Get global support by searching the Schneider Electric Knowledge Base and using esupport.
- Contact the Schneider Electric Customer Support Center by telephone or e-mail.
Go to www.se.com > **Support** > **Contact Support** to find contact information for country-specific centers.

For information on how to obtain local customer support, contact the representative or other distributors from whom you purchased your product.

How to Activate Your Warranty with the mySchneider App

1. Download the **mySchneider** app from the iTunes® or Google Play® app stores.
2. Log in or register your account.
3. Select **Catalog**, then tap on the **Search** bar. Either enter your product model number/commercial reference, or scan the QR code on your product to find your product in the catalogue.

You can find the model number and QR code for your Easy Micro Data Center on the nameplate in the rear of the cabinet.



4. Select **Register Asset** and follow the prompts to validate your product details.

Specifications

System Specifications by SKU

	EMDC42UP1	EMDC24UP1	EMDC42U6KP2	EMD-C42U6KP2V	EMDC24U3KP2	EMD-C24U3KP2V
	42U Contained	24U Contained	42U Contained	42U Ventilated	24U Contained	24U Ventilated
Dimensions W x D x H mm (in)	600 x 1200 x 2020 (23.62 x 47.24 x 79.53)	600 x 1200 x 1228 (23.62 x 47.24 x 48.35)	600 x 1200 x 2020 (23.62 x 47.24 x 79.53)	600 x 1200 x 2020 (23.62 x 47.24 x 79.53)	600 x 1200 x 1228 (23.62 x 47.24 x 48.35)	600 x 1000 x 1228 (23.62 x 39.37 x 48.35)
IP Level	IP20					
Usable U Space	28	11	28	33	11	16
Mounting depth of equipment (mm)	705	705	705	711	705	609
System Power Capacity (W)	≤3 kW (6 kVA UPS)	≤2.4 kW (3 kVA UPS)	≤3 kW (6 kVA UPS)	≤6 kW (6 kVA UPS)	≤2.4 kW (3 kVA UPS)	≤2.4 kW (3 kVA UPS)
System Input Voltage	P+N+E, 220 V/230 V/240 V, 50 Hz/60 Hz					
Cooling Capacity	≤3 kW (3.5 kW Split Cooling with Emergency Fans)	≤3 kW (3.5 kW Split Cooling with Emergency Fans)	≤3 kW (3.5 kW Split Cooling with Emergency Fans)	No Active Cooling, No Emergency Fans	≤3 kW (3.5 kW Split Cooling with Emergency Fans)	No Active Cooling, No Emergency Fans
Local Display	Yes	N/A	N/A	N/A	N/A	N/A
Temperature (Operation)	0–40°C (32–104°F) at rated load 40–50°C (104–122°F) Linearly derated to 80% maximum load capacity					
Temperature (Storage)	-15–50°C (5–122°F)					
Humidity	0–95% relative humidity, non-condensing					
Elevation (Operation)	0–1,000 m (0–3,281 ft): Normal operation 1,000–3,000 m (3,281–9,842 ft): Electrical load is reduced by 1% for every 100 m (328 ft) above 1,000 m Above 3,000 m (9,842 ft): UPS does not work					
Elevation (Storage)	0–15,000 m (0–49,213 ft)					
Weight	173 kg (381.4 lb)	128 kg (282.2 lb)	188 kg (414.5 lb)	150 kg (330.7 lb)	140 kg (308.6 lb)	99 kg (218.3 lb)
Shipping Weight	250 kg (551.2 lb)	192 kg (423.3 lb)	265 kg (584.2 lb)	227 kg (500.4 lb)	206 kg (454.2 lb)	163 kg (359.4 lb)

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 its products to be free from defects in materials and workmanship for a period of one year from the date of purchase. The obligation of Schneider Electric under this warranty is limited to repairing or replacing, at its sole discretion, any such defective products. This warranty does not apply to equipment that has been damaged by accident, negligence or misapplication or has been altered or modified in any way. Repair or replacement of a defective product or part thereof does not extend the original warranty period. Any parts furnished under this warranty may be new or factory-remanufactured.

Non-transferable Warranty

This warranty extends only to the original purchaser who must have properly registered the product. The product may be registered at www.apc.com.

Exclusions

Schneider Electric shall not be liable under the warranty if its testing and examination disclose that the alleged defect in the product does not exist or was caused by end user's or any third person's misuse, negligence, improper installation or testing. Further, Schneider Electric shall not be liable under the warranty for unauthorized attempts to repair or modify wrong or inadequate electrical voltage or connection, inappropriate on-site operation conditions, corrosive atmosphere, repair, installation, exposure to the elements, Acts of God, fire, theft, or installation contrary to Schneider Electric recommendations or specifications or in any event if the Schneider Electric serial number has been altered, defaced, or removed, or any other cause beyond the range of the intended use.

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Warranty Claims

Customers with warranty claims issues may access the customer support network through the Support page, www.apc.com/support. Select your country from the country selection pull-down menu at the top of the Web page. Select the **Support** tab to obtain contact information for customer support in your region.

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

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990-91518D