

ORDERING GUIDE

Edge Distributed Data Center Power Architecture



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Edge Distributed Power Architecture

Your Bottom Line. Transformed

The OmniOn Power™ Edge Distributed Power Architecture product family provides you the ultimate in power conversion efficiency eliminating the need for excess equipment and single points of failure in your office. By delivering 208 or 480 Vac directly to the frame and battery storage local to your load equipment, the Edge is the most reliable DC data center solution yet.

In a data center, power efficiency and density are crucial. Imagine the ability to achieve significantly increased processing capability from modern high-density servers for just a small increase in power consumption. The impact could be significant in terms of efficiency and operating power costs.

Overview

Our Edge distributed data center power architecture helps achieve just that. The power architecture is able to meet the demands of today's (and future) data centers by providing high power density in a modular solution that can grow with a data centers' computing needs.

Factor in the reduced number of power conversion steps this power architecture uses – and the associated improvements in power efficiency it provides – and you have a single solution capable of helping you reduce your data center power costs, improve white space utilization, and transform your bottom line.

Advantages

- Power Density Increase
- CapEx & OpEx Reduction
- Execution Speed
- Simplified Maintenance
- Increased Safety & Reliability



Key Features

The highly-reliable Edge distributed data center power architecture provides a cost-effective solution to backup power needs in data centers by utilizing compact DC power supplies mounted inside – on the side (vertically) – of each frame outside of the equipment space. Each power train is fed from a three-phase, 208 or 480-volts AC source and converts the power to 48-volts DC inside the enclosure for maintaining battery reserve (which is also housed in the system). With the Edge power architecture, rectifiers and batteries are hot-swappable and self-configure.

- Dual AC Inputs
- 200/208/240 or 380/400/415/480 Vac
- Pulsar Edge controller with integrated management system
- Intelligent rectifier and battery modules
- Hot pluggable & hot swappable modules
- Digital load sharing
- Configurable local distribution
- Fully RoHS 10 compliant
- UL and CE for deployment worldwide

Specifications

The Edge Distributed Power Architecture offers a configurable power conversion solution at the load equipment to maximize power availability and density. The following specification are generic and not specific to a single solution. It should be noted that the overall capacities, distribution options, and plant configurations are changeable in the event they are needed.

Input	MIN	TYPICAL	MAX
Voltage Range			
• High-Line	320 Vac	480 Vac	530 Vac
• Low-Line	176 Vac	208 Vac	275 Vac
Frequency	47 Hz	60 Hz	66 Hz
Power Factor	98%	99.5%	99.8%
Total Harmonic Distortion	5%		

Output	
Nominal Voltage	-48 Vdc
Output Rating	1000 A (48 kW _{max} for Bay)
Vo Setpoint (Factory)	-54.5 Vdc ±1%
Vo Range	-42 Vdc to -58 Vdc
Regulation	±0.05%

Mechanical		
	7 Foot Cabinet (EDGE 7)	8 Foot Cabinet (EDGE 8)
Height (in/mm)	84 / 2134 with 44RU Equipment Space	97.8 / 2483 with 52RU Equipment Space
Width (in/mm)	29.8 / 756 Enclosure with standard 19 IN mounting rails	
Depth (in/mm) No Door	44 / 1118 without doors; 47.5 / 1207 with doors	
Depth (in/mm) No Door	47.5 / 1207; Door swing requires 30.2 / 767	
*Weight (lbs/kg)	742 / 337 Base Cabinet in 3x3 N+N configuration	825 / 374 Base Cabinet in 3x2 N+N configuration
Finish	Central office white powder coat Sherwin-Williams UWT2-10009 or Protech HX511W481	

* Weight is for base cabinet only. It does not include: rectifiers, batteries, distribution modules, doors, or customer equipment

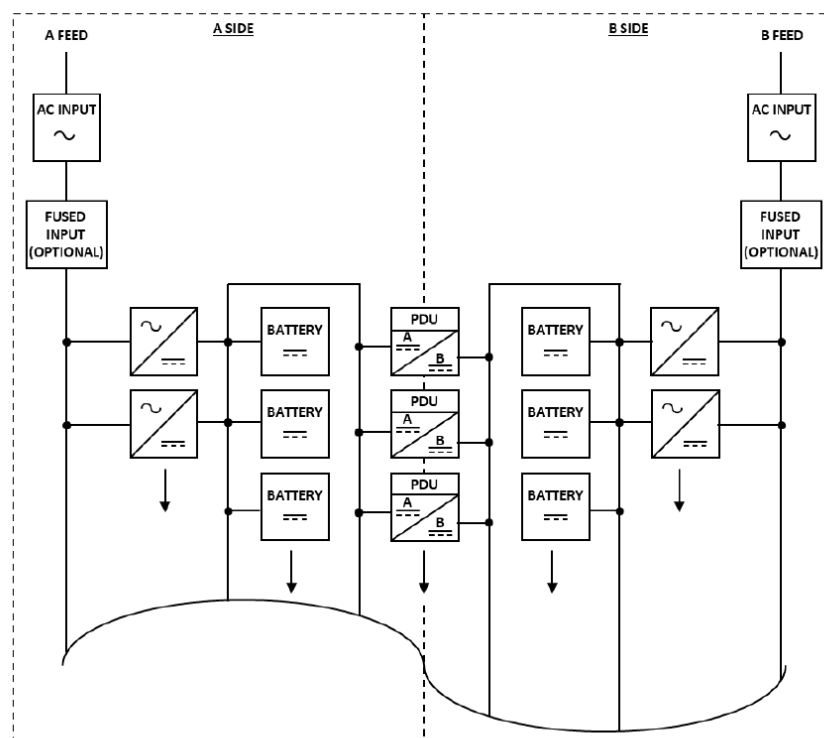
Specifications (continued)

Environmental	
Operating Temperature	-40 °C to +40 °C (-40 °F to 104 °F)
Storage Temperature	-40 °C to +85 °C (-40 °F to 185 °F)
Relative Humidity	95% max, non-condensing
Altitude	4000 M (for altitudes above 2000 M, peak operating temperature de-rates 0.656 °C /100M) 4000 M peak temperature rating is 62°C

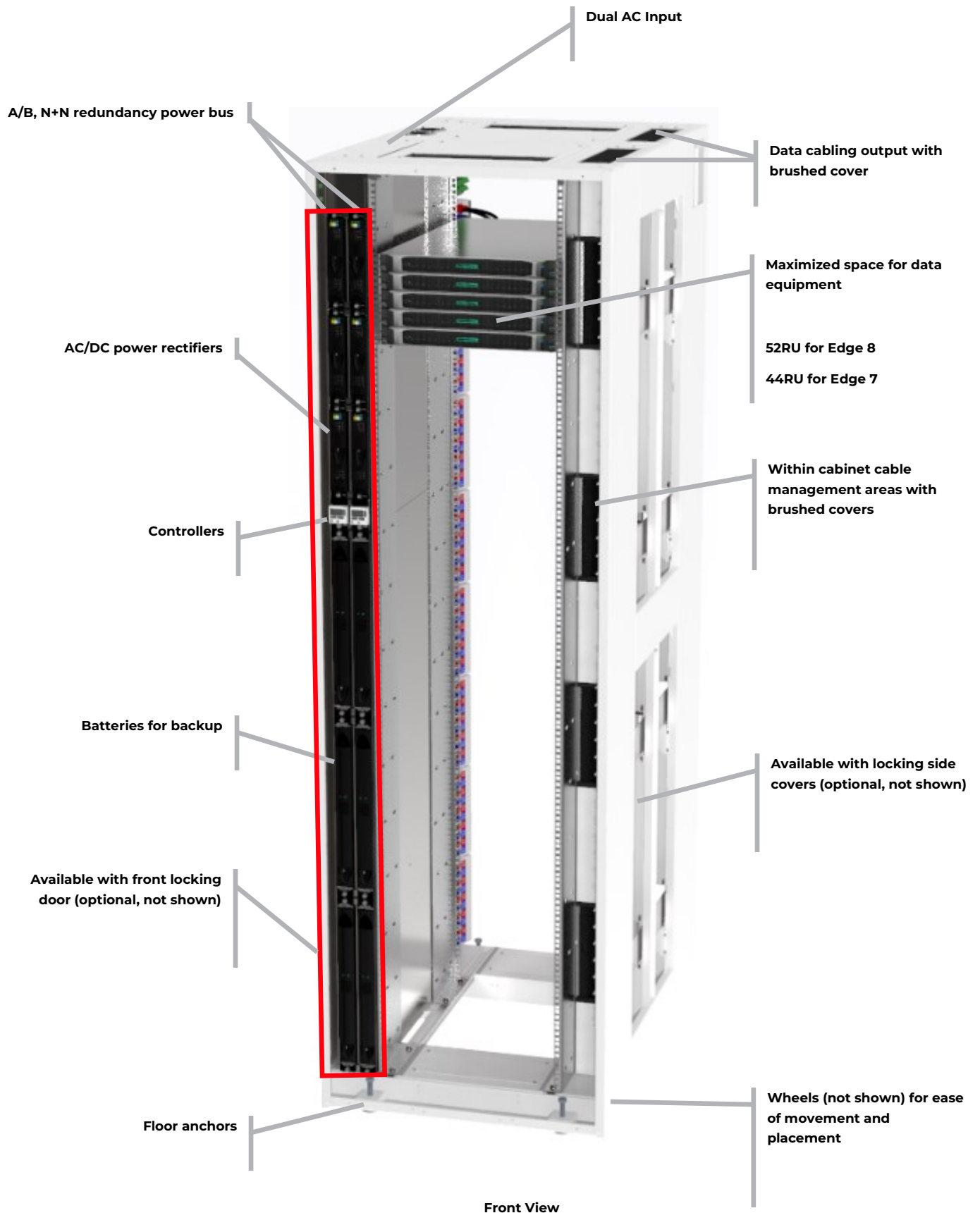
Safety And Standards Compliance	
NEBS	Evaluated by independent NRTL test lab to Telcordia GR63-CORE & GR1089-CORE Issue 6
Safety	ANSI/UL60950-1-2014 Second Edition and CAN/CSA C22.2 No. 60950-1-07, Second Edition +
RoHS	Compliant to RoHS EU Directive 2002/95/EC RoHS 6/6
EMC	European Directive 2014/30/EU; EN55032, Class A; EN55035; FCC, Class A; GR1089-CORE Issue

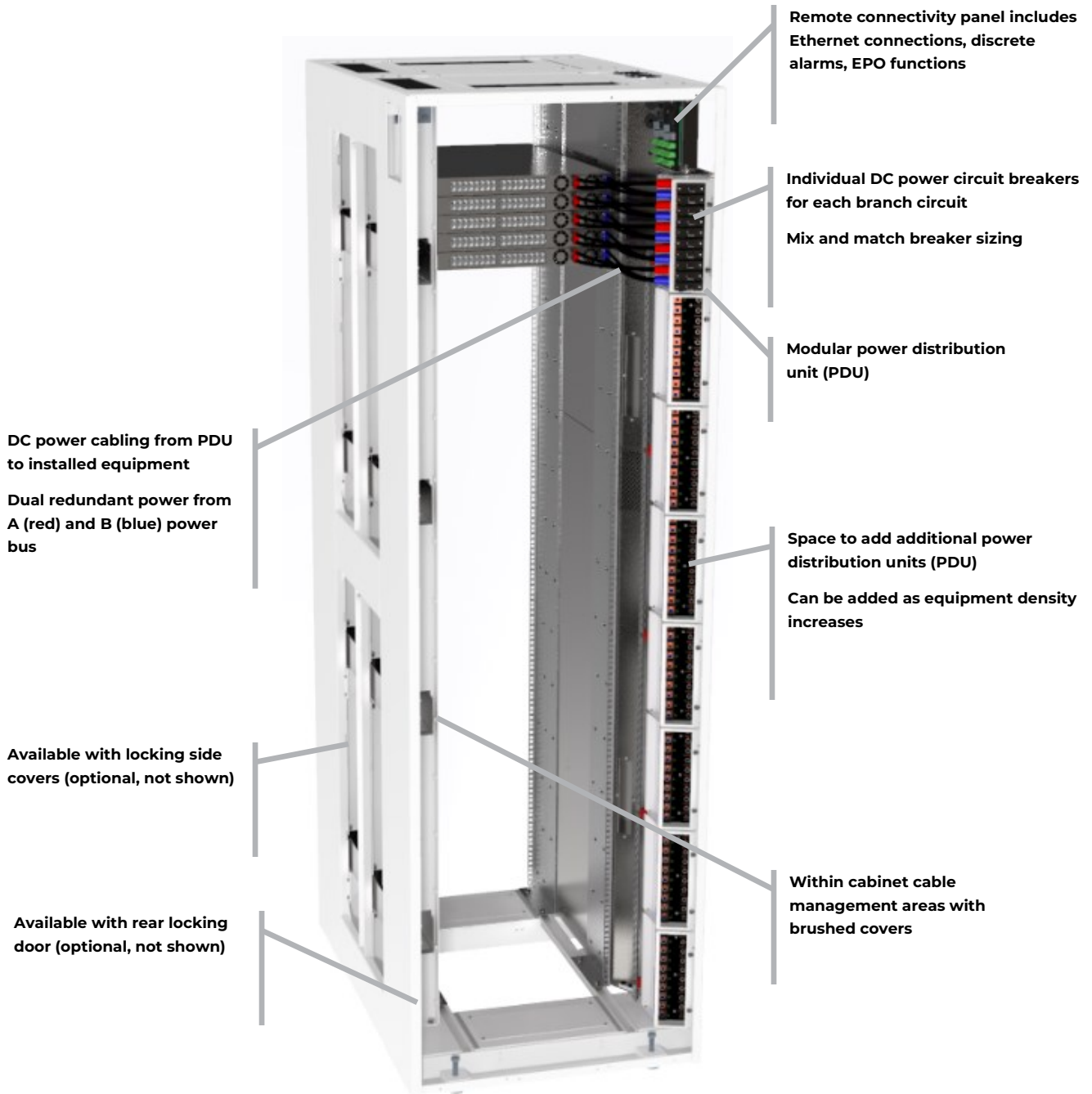
Agency Certifications	
CSA / UL	ANSI/UL60950-1-2014 Second Edition and CAN/CSA C22.2 No. 60950-1-07, Second Edition + A2:2014 (MOD), dated October 14, 2014
EMI/EMC	European Directive 2014/30/EU; EN55032 (CISPR22) Class A; EN55035 (CISPR24)
NEBS Level 3	GR-1089-CORE, Issue 7, December 2017; GR-63-CORE, Issue 5, December 2017 (24kW/440A N+N; 48KW/880A N configuration with additional 1523Lbs of load equipment)

Block Diagram



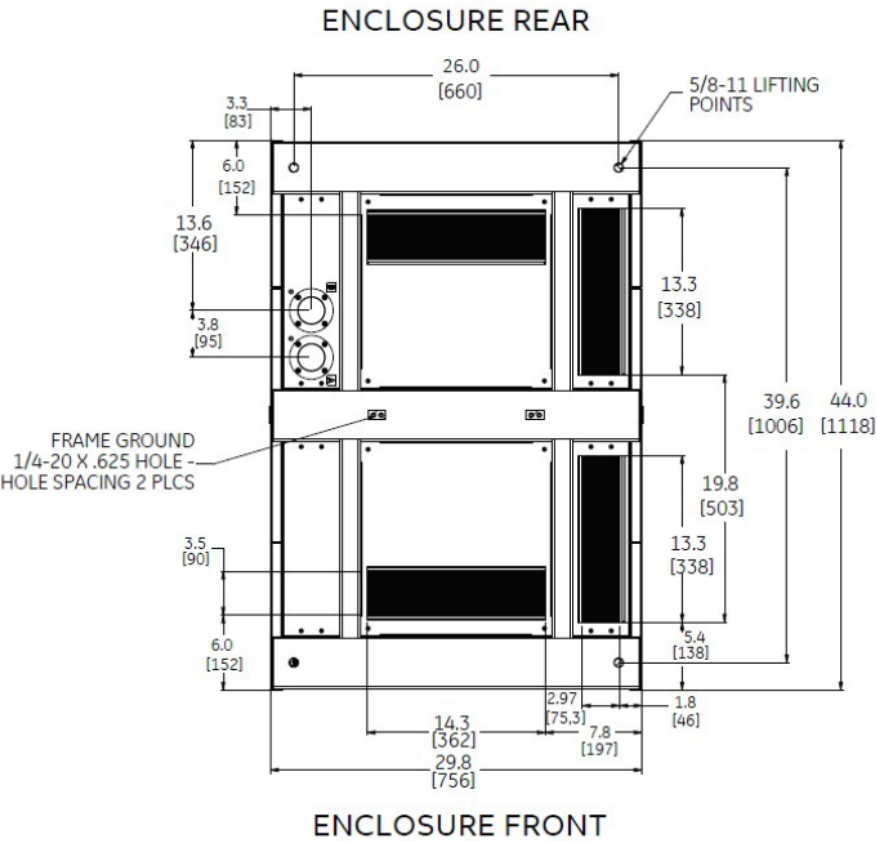
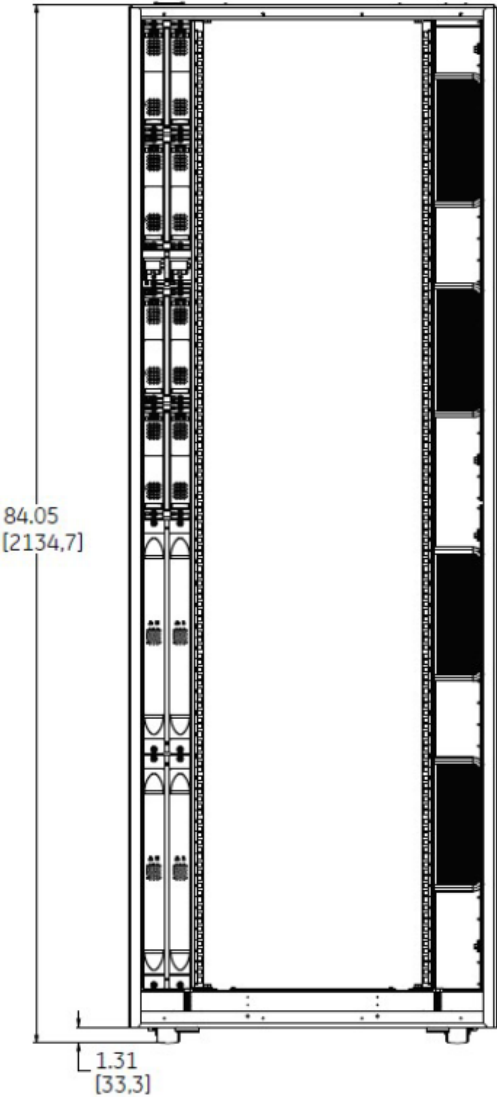
Product Features



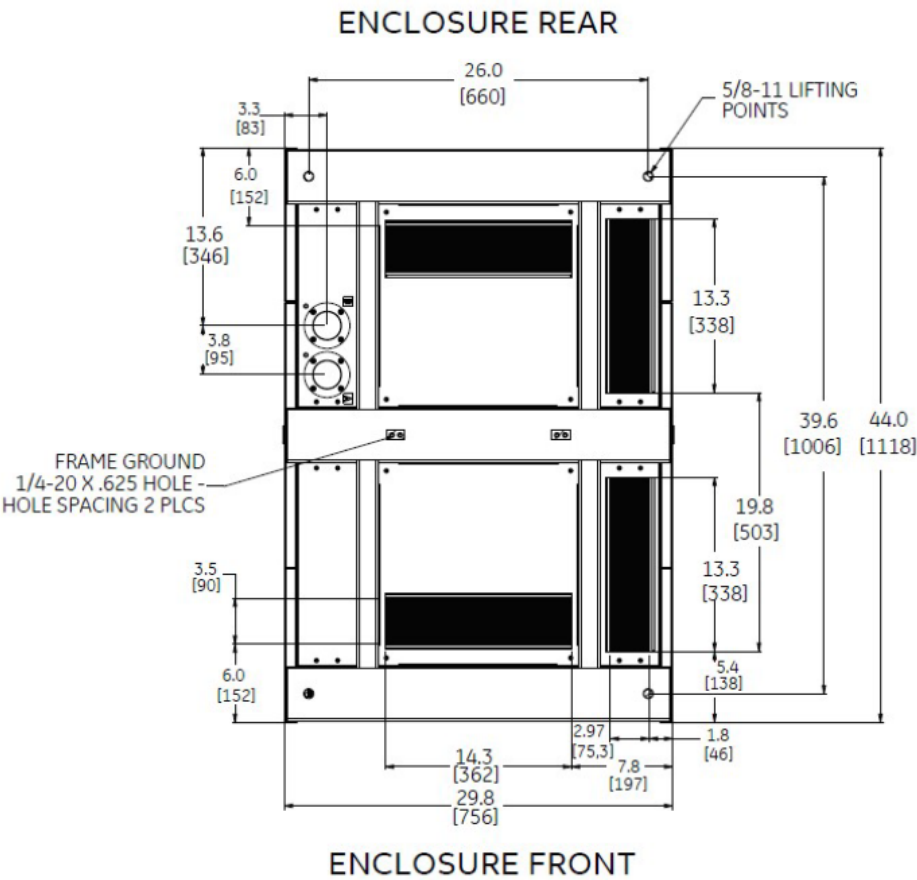
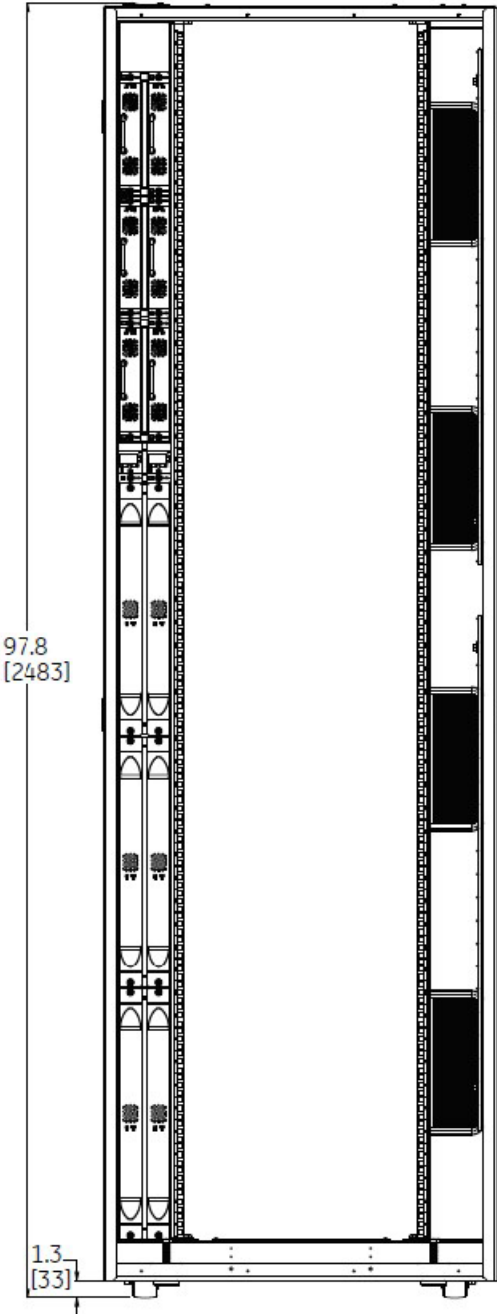


Rear View

EDGE 7



EDGE 8



Ordering Guide Information

The Edge Distributed Data Center Power Architecture offers site and load dependent configurability for the end user application. Whether used as a single cabinet for an enterprise application or as a total data hall application, each cabinet can be configured to support as little as 6kW up to 120kW of load while supplying as little as 30 seconds up to 30 minutes of backup battery capacity. Since all power conversion takes place in the equipment bay, the user can define how much power and battery reserve is required or desired in each cabinet.

The following ordering guide contains the currently released products available to be ordered for deployment. From a minimal enclosure with rectification and distribution to a fully configured bay with all panels and feature, these configuration steps are used as a guideline to configure site specific solutions starting with the bay and then populating with various modules and features for site deployment.

Additional options available. Please contact your sales person for systems not listed below and for pricing.

Configuration Steps

Step	Selection	Requirements Needed	Options
1a	Edge Enclosure Selection	<ul style="list-style-type: none">• Enclosure Size• Input Voltage• Input type• Number of power buses• Power capacity	<ul style="list-style-type: none">• 7 or 8 foot• 208Vac or 480Vac• California Plug, Direct Wire• Dual Bus, Single A or B bus• 18kW, 30kW, 48kW, etc.
1b	Specialized Edge Selection	<ul style="list-style-type: none">• Edge BDFB• Edge Inverter Bay	<ul style="list-style-type: none">• 48kW, 60kW• 48kW Red or Blue
2	Pluggable Power Modules	<ul style="list-style-type: none">• Rectifiers• Inverter• Battery	<ul style="list-style-type: none">• 208Vac or 480Vac• 48V/120V• VRLA or NiMH
3	Distribution Components	<ul style="list-style-type: none">• Primary distribution panels• Large breaker panels• Breaker sizes• Connectors and Cables	<ul style="list-style-type: none">• Dual Bus, Single A or B• Dual Bus, Single A or B• Single and multi-pole (5 - 250A)• 10 - 2AWG Connectors/Cable Kits
4	Additional Reserve Capacity	<ul style="list-style-type: none">• Supplemental battery shelves• Battery connection panel	<ul style="list-style-type: none">• A & B, single A, single B shelves• Dual Bus, single A, single B
5	Accessories and Adapters	<ul style="list-style-type: none">• Enclosures add-ons• Equipment specific modifications• In bay inverter solutions	<ul style="list-style-type: none">• Doors, side panels, mounting kits• Nokia mounting & Cisco air flow kit• Split and single voltage inverters

Step 1a: Edge Enclosure Selection

The Edge enclosure is configured based on the height of the cabinet, power and battery configuration, and the type of AC input the bay accepts. The following is a list of currently released bays available to order for new installations, as well as equipment expansion projects. Choose the bay based on your application and installation. If a new configuration is required for your application, please reach out to your sales representative to discuss options.

480Vac Input Bays				
Ordering Code	Description	Feature	Value	
1600264831A	8' Edge Distributed Power Architecture Bay A & B power busses each equipped: 3 - Rectifier positions (6 Total) 3 - Battery positions (6 Total) 8 - PDU output positions Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 10Ft AC cable with CS8164 locking plug and second CS8164 locking plug for raceway connection EDGE-8-19-480-33-AB-CS-B00-D0-S0-Z0-P0-2	Rating (kW)	18 N+N	
		Input Voltage (Vac)	380 - 480Vac @ 50/60Hz	
		Output Configuration	A & B	
		Battery Positions	6 Total	
			Installed	Shipping
		Height (in/mm)	97.8/2483	104.8/2662
		Width (in/mm)	29.8/756	44/1118
		Depth (in/mm)	44/1118	58/1473
		Weight (lbs/kg)	825/374	1042/473
1600274222A	8' Edge Distributed Power Architecture Bay A & B power busses each equipped: 5 - Rectifier positions (10 Total) 2 - Battery positions (4 Total) 8 - PDU output positions Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 10Ft AC cable with CS8164 locking plug and second CS8164 locking plug for raceway connection EDGE-8-19-480-52-AB-CS-B00-D0-S0-Z0-P0-2	Rating (kW)	30 N+N	
		Input Voltage (Vac)	380 - 480Vac @ 50/60Hz	
		Output Configuration	A & B	
		Battery Positions	4 Total	
			Installed	Shipping
		Height (in/mm)	97.8/2483	104.8/2662
		Width (in/mm)	29.8/756	44/1118
		Depth (in/mm)	44/1118	58/1473
		Weight (lbs/kg)	825/374	1042/473
1600261221A	7' Edge Distributed Power Architecture Bay A & B power busses each equipped: 4 - Rectifier positions (8 Total) 2 - Battery positions (4 Total) 6 - PDU output positions Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 10Ft AC cable with CS8164 locking plug and second CS8164 locking plug for raceway connection EDGE-7-19-480-42-AB-CS-B00-D0-S0-Z0-P0-2	Rating (kW)	24 N+N	
		Input Voltage (Vac)	380 - 480Vac @ 50/60Hz	
		Output Configuration	A & B	
		Battery Positions	4 Total	
			Installed	Shipping
		Height (in/mm)	84/2135	91/2311
		Width (in/mm)	29.8/756	44/1118
		Depth (in/mm)	44/1118	58/1473
		Weight (lbs/kg)	742/337	960/435

Step 1a: Edge Enclosure Selection

The Edge enclosure is configured based on the height of the cabinet, power and battery configuration, and the type of AC input the bay accepts. The following is a list of currently released bays available to order for new installations, as well as equipment expansion projects. Choose the bay based on your application and installation. If a new configuration is required for your application, please reach out to your sales representative to discuss options.

208Vac Input Bays			
Ordering Code	Description	Feature	Value
1600481402A	7' Edge Distributed Power Architecture Bay A & B power busses each equipped: 4 - Rectifier positions (8 Total) 2 - Battery positions (4 Total) 6 - PDU output positions Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 2, A + 2, B Terminal block inputs EDGE-7-19-208-42-AB-TB-B00-D0-S0-Z0-P0-1	Rating (Kw)	24 N+N
		Input Voltage (Vac)	200 - 240Vac @ 50/60Hz
		Output Configuration	A & B
		Battery Positions	4 Total
			Installed Shipping
		Height (in/mm)	84/2135 91/2311
		Width (in/mm)	29.8/756 44/1118
		Depth (in/mm)	44/1118 58/1473
		Weight (Lbs./KG)	742/337 960/435
1600481428A	7' Edge Distributed Power Architecture Bay A & B power busses each equipped: 2 - Rectifier positions (4 Total) 3 - Battery positions (6 Total) 6 - PDU output positions Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 2, A + 2, B Terminal block inputs EDGE-7-19-208-23-AB-TB-B00-D0-S0-Z0-P0-2	Rating (Kw)	12 N+N
		Input Voltage (Vac)	200 - 240Vac @ 50/60Hz
		Output Configuration	A & B
		Battery Positions	6 Total
			Installed Shipping
		Height (in/mm)	84/2135 91/2311
		Width (in/mm)	29.8/756 44/1118
		Depth (in/mm)	44/1118 58/1473
		Weight (Lbs./KG)	742/337 960/435

Step 1b: Specialty Edge Enclosure Selection



These Edge enclosures are special configurations for non-standard applications. Configurations include Inverter bays for localized AC serviced equipment, Edge Battery Distribution Circuit Breaker Boards, and other configuration for special applications. Choose the bay based on your application and installation. If a new configuration is required for your application, please reach out to your standards team and sales representative to discuss options.

Ordering Code	Description	Feature	Value	
1600305670A	7' Edge Battery Distribution Circuit Breaker Board Bay is equipped with the following: 4 - Rectifier positions (8 Total) 2 - Vertical Battery positions (4 Total) 11 - Horizontal Battery positions (22 Total) 3 - PDU output positions 3 - Battery PDU's Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 2 - 10Ft AC cable with CS8164 locking plugs EDGE-7-19-480-42-AB-CS-B11-D0-S0-Z0-P0-2	Rating (Kw)	24 N+N	
		Input Voltage (Vac)	380 - 480Vac @ 50/60Hz	
		Output Configuration	A & B	
		Battery Positions	26 Total	
			Installed	Shipping
		Height (in/mm)	84/2135	91/2311
		Width (in/mm)	29.8/756	44/1118
		Depth (in/mm)	44/1118	58/1473
		Weight (Lbs./KG)	947/429	1164/527
1600274216A	7' Edge 48kW 120/240 Inverter Bay - Red A power bus equipped with: 10 - Rectifier positions 2 - Vertical Battery positions 20 - Horizontal Battery positions 1 - 60kVA Inverter System Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 2 - 10Ft AC cable with CS8164 locking plugs EDGE-7-19-480-51-A-CS-B20-DB-S2-Z0-P2-2	Rating (Kw)	48 / 60kVA	
		Input Voltage (Vac)	380 - 480Vac @ 50/60Hz	
		Output Configuration	120/240V Bulk Split Phase	
		Battery Positions	22 Total	
			Installed	Shipping
		Height (in/mm)	97.8/2483	104.8/2662
		Width (in/mm)	29.8/756	44/1118
		Depth (in/mm)	44/1118	58/1473
		Weight (Lbs./KG)	1005/456	1222/554
1600274217A	7' Edge 48kW 120/240 Inverter Bay - Blue B power bus equipped with: 10 - Rectifier positions 2 - Vertical Battery positions 20 - Horizontal Battery positions 1 - 60kVA Inverter System Pulsar Edge Controller Vertical Ground Bus Front to Rear cable raceway 2 - 10Ft AC cable with CS8164 locking plugs EDGE-7-19-480-51-B-CS-B20-DB-S2-Z0-P3-2	Rating (Kw)	48 / 60kVA	
		Input Voltage (Vac)	380 - 480Vac @ 50/60Hz	
		Output Configuration	120/240V Bulk Split Phase	
		Battery Positions	22 Total	
			Installed	Shipping
		Height (in/mm)	97.8/2483	104.8/2662
		Width (in/mm)	29.8/756	44/1118
		Depth (in/mm)	44/1118	58/1473
		Weight (Lbs./KG)	1005/456	1222/554

Step 2: Pluggable Power Modules


Rectifier Modules

GP100 rectifiers for the Edge Distributed Architecture are installed in the A or B side of the frame. They are designed and qualified to operate 40°C to +55°C with extended operation to +70°C. The rectifiers are programmable from 42 - 58V in order to float and charge all battery technologies utilized by the Edge Distributed Architecture.

Ordering Code	Description	Feature	Value		Image
1600373923A	GP100L3R48TEZEC Low Line Rectifier	Power Rating	6 kW	110 A @ 54 V	
		Input Voltage	200 - 240Vac @ 50/60Hz		
		Input Current			
		Heat Release	Watts	BTU/hr.	
			Installed	Shipping	
		Weight (Lbs./KG)	8.95/4.1	9.85/4.5	
1600092584A	GP100H3R48TEZEC High Line Rectifier	Power Rating	6 kW	110 A @ 54 V	
		Input Voltage	380 - 480Vac @ 50/60Hz		
		Input Current	10A - 8A		
		Heat Release	217 Watts	740 BTU/hr.	
			Installed	Shipping	
		Weight (Lbs./KG)	8.95/4.1	9.85/4.5	

Inverter Modules

The below inverter module is used in the specialty Edge Inverter Bays in step 1b. For single phase units, order as many individual units as necessary to support the load. For split phase systems inverters modules must be used in pairs.





Ordering Code	Description	Feature	Value		Image
450041032	INV BRAVO MOD 2.5KVA 48Vdc 120Vac Single phase Inverter Module	Power Rating	2000 W	2500 kVA	
		Input Voltage	40 - 60 Vdc		
		Input Current	56 A @ 40 Vdc		
		Overload	150% (15 Sec.)		
		Heat Release	182 Watts	621 BTU/hr.	
			Installed	Shipping	
		Weight (Lbs./KG)	9.46/4.3	10.4/4.7	

Step 2: Pluggable Power Modules (cont.)

Battery Modules

BME2500 batteries for the Edge Distributed Architecture are installed in the A or B vertical space, or in horizontal shelves in the center of the frame.



CAUTION: Do not mix battery types within a single Edge cabinet. Mixing battery technology will result in battery damage.

Ordering Code	Description	Feature	Value		Image
1600283228A	Qty. 1 BME2500/120VRLA48 BATTERY Valve Regulated Lead Acid	Float Voltage	54.5 Vdc		
		1 Min (ECV 38.4)	3810 W	1.6 Ah	
		2 Min	3177 W	2.8 Ah	
		5 Min	1863 W	4 Ah	
		10 Min	1167 W	5.1 Ah	
		15 Min	815 W	5.3 Ah	
1600443177A	Qty. 20, Bulk Packaged BME2500/120VRLA48 BATTERY Valve Regulated Lead Acid	Operating Temp.	0 to +40 °C		
		Heat Release	11 Watts	37.5 BTU/hr.	
			Installed	Shipping	
		Weight (Lbs./KG)	42.9/19.5	47.4/21.5	
1600283230A	Qty. 1 BME2500/480NIMH48 BATTERY Nickel Metal Hydride	Float Voltage	56.0 Vdc		
		1 Min (ECV 38.0)	6000 W	2.6 Ah	
		2 Min	5900 W	5.2 Ah	
		5 Min	4800 W	10.5 Ah	
		10 Min	2850 W	12.5 Ah	
		15 Min	1870 W	12.3 Ah	
5000482993P	Qty. 20, Bulk Packaged BME2500/480NIMH48 BATTERY Nickel Metal Hydride	Operating Temp.	+15 to +35 °C		
		Heat Release	15 Watts	51.2 BTU/hr.	
			Installed	Shipping	
		Weight (Lbs./KG)	58/26.3	63/32.3	

Step 3: Distribution Components

Distribution Modules


Distribution modules are designed to connect directly to the distribution bus via pin and socket pluggable connections on the single pole breaker panels or two-hole lugs on the multi-pole breaker panel. See connectors and cables for interfacing options on the single pole breaker panel.

Ordering Code	Description	Feature	Value		Image
1600276419A	10 Position Distribution for A Bus Only (RED - G400)	Panel Rating	400A		
		Position Rating	100A		
1600274226A	10 Position Distribution for B Bus Only (BLUE - G402)	Total Positions	10		
		Connection Type	Pluggable Pin and Sleeve		
1600213820A	10 Position Distribution for A & B Buses (RED & BLUE - G401)		Installed	Shipping	
		Weight (Lbs./KG)	8.15/3.7	9/4.1	
1600250697A	2 Position Distribution for A Bus Only (RED - G410)	Panel Rating	400A		
		Position Rating	300A (up to 3 Pole breaker)		
1600361457A	2 Position Distribution for B Bus Only (BLUE- G412)	Total Positions	2		
		Connection Type	1/4-20 on 5/8"		
1600250698A	2 Position Distribution for A & B Buses (RED & BLUE - G411)		Installed	Shipping	
		Weight (Lbs./KG)	8.15/3.7	9/4.1	

Step 3: Distribution Components (cont.)


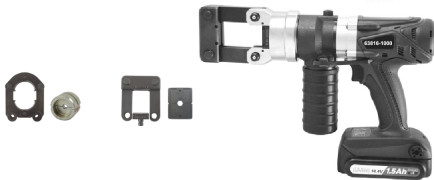
Bullet Style Load Circuit Breakers

Edge Distributed Power Architecture distribution panels all support plug-in (bullet style) breakers modules. Larger breakers can be 2 or even 3 poles. The multi-pole breakers can only be used in G410, G411, & G412.

Ordering Code	Amperage	CB Positions	Min Wire Gauge	Image
407998137	3	1	10	
407998145	5	1	10	
407998152	10	1	10	
407998160	15	1	10	
407998178	16	1	10	
407998186	20	1	10	
407998194	25	1	10	
407998202	30	1	10	
408213486	40	1	10	
407998210	45	1	8	
407998228	50	1	8	
407998236	60	1	6	
407998244	70	1	6	
407998251	80	1	4	
407998269	90	1	4	
407998277	100	1	2	
CC848808551	100	2	2	
408185353	125	2	2	
408185346	150	2	1	
408564941	200	3	3/0	
CC408573975	225	3	3/0	
408535752	250	3	4/0	
450046922	300	3	4/0	


Step 3: Distribution Components (cont.)

Keyed Connector Kits and Crimping Tools

Ordering Code	Type	Color	Wire Gauge	Image
1600264825A	Connector Kit	Blue	10	
1600264826A	Connector Kit	Red	10	
1600272823A	Connector Kit	Blue	8	
1600272824A	Connector Kit	Red	8	
1600264827A	Connector Kit	Blue	6	
1600264828A	Connector Kit	Red	6	
1600272825A	Connector Kit	Blue	4	
1600272826A	Connector Kit	Red	4	
1600264829A	Connector Kit	Blue	2	
1600264830A	Connector Kit	Red	2	
1600301872A	CRIMP AND DIE TOOL SET W/O CUTTER; Includes: 5 dies 10 - 2 AWG, charger, and two batteries			
1600301871A	CRIMP AND DIE TOOL SET WITH CUTTER; Includes: 5 dies 10 - 2 AWG, charger, and two batteries			

Cable Kits with Keyed Connectors


Premade cables below utilize the same keyed connector kits in the previous section. Each comes with color matched cables with 6 Foot of wire on the positive and negative cable intended to be cut to length in the field.

Ordering Code	Type	Color	Wire Gauge	Image
1600261217A	Keyed Cable Kit, 6 ft.	Red	10	
1600261218A	Keyed Cable Kit, 6 ft.	Blue	10	
1600272817A	Keyed Cable Kit, 6 ft.	Red	8	
1600272818A	Keyed Cable Kit, 6 ft.	Blue	8	
1600261219A	Keyed Cable Kit, 6 ft.	Red	6	
1600261220A	Keyed Cable Kit, 6 ft.	Blue	6	
1600272819A	Keyed Cable Kit, 6 ft.	Red	4	
1600272820A	Keyed Cable Kit, 6 ft.	Blue	4	
1600272821A	Keyed Cable Kit, 6 ft.	Red	2	
1600272822A	Keyed Cable Kit, 6 ft.	Blue	2	

Step 3: Distribution Components (cont.)

Bulk Packaged Cable Kits with Keyed Connectors

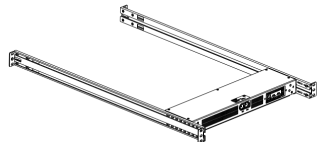

Manufactured cable sets below utilize the same keyed connector kits in the previous section. Each comes with color matched cables with 6 Foot of wire on the positive and negative cable intended to be cut to length in the field. Packages are optimized for shipping and OSHA material handling standards.

Ordering Code	Color	Wire Gauge	Quantity Per Package	Image
1600468527A	Red	10	20	
1600468528A	Blue	10	20	
1600468529A	Red	8	20	
1600468530A	Blue	8	20	
1600468531A	Red	6	20	
1600468532A	Blue	6	20	
1600468536A	Red	4	12	
1600468533A	Blue	4	12	
1600468534A	Red	2	8	
1600468535A	Blue	2	8	

Step 4: Additional Reserve Capacity

Supplemental Battery Trays and Panels

Additional battery modules can be added into the equipment area of the Edge frame. Additional horizontally mounted shelves are purchased as either single bus or dual bus configurations and come equipped with cables to connect to the battery distribution panels. Battery distribution panels are used as the interface from the battery trays to the Edge bus.

Ordering Code	Description	Feature	Value		Image
1600274230A	A Battery Shelf (RED - G710)	Mounting	Adjustable rails		
		Battery Type	VRLA, NiMH, NA+		
1600274231A	B Battery Shelf (BLUE - G711)		Installed	Shipping	
		Weight (Lbs./KG)	8.2/3.7	9.5/4.3	
1600274232A	A & B Battery Shelves (RED & BLUE - G712)		Installed	Shipping	
		Weight (Lbs./KG)	16.5/7.4	19/8.6	
1600274228A	10 Position Battery Panel for A Bus Only (RED - G421)	Panel Rating	400A		
		Position Rating	300A		
1600274229A	10 Position Battery Panel for B Bus Only (BLUE - G422)	Total Positions	10		
		Connection Type	Pluggable Pin & Sleeve		
1600274227A	10 Position Battery Panel for A & B Buses (RED & BLUE - G420)		Installed	Shipping	
		Weight (Lbs./KG)	8.15/3.7	9/4.1	

Step 5: Accessories and Adapters

Enclosure Add-ons

Ordering Code	Description	Notes/Application
1600299945A	Lockable side panel kit, 8 ft. enclosure (G008). Includes 2 panels for one side of the cabinet.	For use where cabinet is located at the end of an aisle, or when cabinet is single stand-alone.
1600297779A	Lockable side panel kit for 7' enclosures (G007). Includes 2 panels for one side of the cabinet.	For use where cabinet is located at the end of an aisle, or when cabinet is single stand-alone.
1600264824A	Lockable door for 8' enclosures (G008) Includes door and mounting hardware	
1600297778A	Lockable door for 7' enclosures (G007) Includes door and mounting hardware	
1600305789A	Isolation pad for Edge enclosures. Includes mounting bushings.	Mounting hardware sold separately.
1600305805A	Shim kit for Edge enclosure including the following: (8) 1/2", (4) 1/4", (4) 1/8", and (4) 1/16" shim	(4) shim sets, one set for each corner.
1600439993A	Edge cabinet skirt - air dam	Includes mounting hardware.
1600480879A	8' cabinet seismic brace kit for earthquake zones	For high seismic zone 4 areas.
1600480880A	7' cabinet seismic brace kit for earthquake zones	For high seismic zone 4 areas.
1600480775A	Edge AC current limiter G390	Fused AC current limit at 65kA. Terminal block connections.
1600481709A	Edge AC current limiter G391	Fused AC current limit at 65kA. CS8164 locking plug connections.

Additional Support Materials

Ordering Code	Description
8600279070P	Ramp for off-loading enclosures off of shipping pallet. The ramp is 80" long to allow lifting equipment free removal of the enclosure off of the shipping pallet.

Step 5: Accessories and Adapters (cont.)

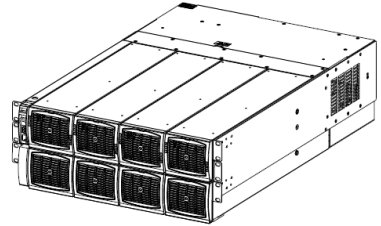
Equipment Specific Modifications

The following modification kits were created to support specific equipment that was not designed to fit in a 19" frame. These kits are installed as a replacement to the right side rail of the Edge enclosure.

Ordering Code	Description	
1600301440A	Nokia 7950XRS mounting kit. Supports the installation of one 7950XRS in an 8' cabinet (not 7' compatible). Includes offset rails, mounting hardware, 80A circuit breakers and 48 cables kits to support DC installation	
1600301441A	Cisco side air flow kit. Supports the installation of Cisco servers that require side air flow. Includes rails with air dams, chassis support and mounting hardware	

In Bay Inverter Solutions

The following inverter kits are purchased separately for addition to any Edge enclosure for

Ordering Code	Description	Image
1600294637A	Edge 8kW A & B input 240Vac inverter. Equipped with two 200A DC feeds (requires G411 distribution unit 1600250698A) and two L630 output receptacles fed from 30A breakers. Inverter modules can be found in Section 2: Pluggable Power Modules	

Ordering Code	Description	Details
1600474739A	EDGE CABG803-CC CONTROLLER	Replacement controller for Edge product family.
1600482728A	FUSES, G390 G391 REPLACEMENT KIT	Pack of 6 replacement fuses for use with G390 or G391 current limiting unit
1600482034A	EDGE CURRENT LIMITER SPARE PARTS KIT	Bulk pack of 40 replacement fuses for use with G390, G391 current limiting unit

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