

Charles Universal Broadband Enclosures (CUBE) CUBE SS Series Large Site Support Cabinets

Charles site support cabinets allow providers to install highly efficient rectifiers and the latest in battery technologies in durable, robust and GR-487 compliant enclosures. With support for VRLA or Ni-Cd batteries, various rectifier and power distribution options, and thermal management options; Charles' site support cabinets protect network integrity with an environmentally friendly, energy efficient solution. Charles can also create custom designs that integrate specific power solutions, call for details.



Specifications

Construction	0.125" Aluminum Welded Construction Outer Enclosure, Powder Coated Off White Finish, 10 Gauge Welded Steel Battery Racks
Mounting Style	Pad Mount Enclosure
Thermal Management	750W/1880W/3000W Hx or 4000 or 10,000 BTU Air Conditioner for Equipment Compartment, Direct Air or TEC for Battery Compartment
Rack Mounting	23"; 7, 15, 18, 23, 28, 31 or 35 RU
Door Latching	3-Point Latching with Pad Lockable Handle
Battery Types / Termination	Ni-CD or VRLA, Anderson Disconnects for Each String
AC Termination	12, 16 or 20 Position Load Center (left-hand side), or None
Bus Bars	Two (2) 2x14 Position Bus Bars
Cable Entrance	Eleven (11) Knockouts for 1.5"/2.0" Conduit on RHS, Eleven (11) Knockouts for 1.5"/2.0" Conduit on LHS, Six (6) Knockouts for 1.5"/2.0" Conduit on Rear, Two (2) 2.0" for 3.0" Conduit on Rear
Alarms	Door Intrusion (2), High Temperature, Thermal System
Certifications	Telcordia GR-487 and UL 60450

Supported Battery Types

<i>Manufacturer</i>	<i>Battery Model #</i>	<i>Ah</i>	<i>Manufacturer</i>	<i>Battery Model #</i>	<i>Ah</i>
Northstar	NSB170FT	170	GNB Marathon	M12V180FT	180
Energys	SBS170F	170	Saft	Tel.X 150	150
Energys	SBS190F	190	Saft	Tel.X 180	180
C&D	TEL12-170F	170	East Penn Deka	12AVR-170ET	170
C&D	TEL12-190F	190	Fiamm	12UMTX170	170
C&D	TEL12-210F	210			

ACCESSORY ITEMS

CHARLES PART #	DESCRIPTION
07-002067-0	216 Tool (7/16" Nut Wrench) for Entering Cabinets
97-002145-A	Temporary Shelf for Saft Ni-Cd Battery Installation
97-002555-A	4 Pair 2/0 Cable and Conduit Kit for SS & BBU Cabinet Lineup
97-SSLGSHRD-A	AC Load Center Shroud for Large Site Support Cabinets
97-002265-A	Replacement Door for 15RU Site Support Cabinet. Contains (2) 2K BTU HVAC Units
97-002162-A	Field Installed 6" Plinth for CUBE-PM/BB/SS Series
97-002287-A	Ni-Cd to VRLA Retainer Bracket Conv. Kit for SS/BBU Battery Tray
97-002567-A	(4) 2" Diameter, Rigid Conduit and Connectors, 6" Long
97-002570-A	4/0 Power Cable Kit, 16'

*Only supported in SS4B228xxx Models

OG-OSP052-A24

CUBE SS Series Large Site Support Cabinets

PART NUMBER	STANDARD MOUNTING	OVERALL DIM. (in.)	RU	LOAD CENTER	THERMAL (POWER)	THERMAL (BATTERY)	BATTERY SUPPORT	WEIGHT EMPTY (lbs.)	WEIGHT w/Ni-Cd BTY
CUBE-SS4B223XN2	Pad Mount	74x32x32	23	—	1880W, 48VDC HX	(2) 200W TEC	2 Strings VRLA, 48V	640	1354
CUBE-SS4B228LN1	Pad Mount	84x32x32	35	—	10K BTU DC HVAC	(2) 200W TEC	2 Strings 200AH VRLA, 48V	715	1915
CUBE-SS4B228LX1	Pad Mount	84x32x32	35	—	10K BTU DC HVAC	(2) 200W TEC	2 Strings 200AH VRLA, 48V	715	1915
CUBE-SS4B231KJ1	Pad Mount	90x32x32	31	20 Position	48VDC 4K BTU AC	DAC	2 Strings Saft Tel.X 180, 48V	750	1414
CUBE-SS4B231VX1	Pad Mount	90x32x32	31	—	(2) 10K BTU DC HVAC	(2) 200W TEC	2 Strings VRLA, 48V	800	2000
CUBE-SS4C215DB1	Pad Mount	74x32x32	15	12 Position	750W, 48VDC HX	DAC	3 Strings Saft Tel.X 180, 48V	700	1771
CUBE-SS4C215DB3	Pad Mount	74x32x32	15	12 Position	750W, 48VDC HX	DAC	3 Strings Saft Tel.X 180, 48V	740	1811
CUBE-SS4C215DN1	Pad Mount	74x32x32	15	—	750W, 48VDC HX	DAC	3 Strings Saft Tel.X 180, 48V	730	1801
CUBE-SS4C215XN1	Pad Mount	74x32x32	15	—	750W, 48VDC HX	(2) 200W TEC	3 Strings VRLA, 48V	740	1811
CUBE-SS4C218DB2	Pad Mount	74x34x38	18	8 Position	750W, 48VDC HX	DAC	3 Strings Saft Tel.X 180, 48V	855	1926
CUBE-SS4C218KN1	Pad Mount	74x34x38	18	—	48VDC 4K BTU AC	DAC	3 Strings Saft Tel.X 180, 48V	855	1926
CUBE-SS4D207DB1	Pad Mount	74x32x32	7	12 Position	750W, 48VDC HX	DAC	4 Strings Saft Tel.X 180, 48V	740	1971

Charles Part #	Integrated Power System	DC DISTRIBUTION					AC INPUT WIRING				
		Rectifier Slots	Rectifiers in Config.	Circuit Breaker Positions	DC Breakers in Config.	GMT Positions	AC Input Voltage	Load Center	Main Breaker	AC Load Breakers	# Open Positions
SS4B223XN2	GE Infinity S, 48/24V, 600A NES4824-23-AC5H-PS8-DC1E	8	None	26	(1) 3 A Lights (1) 10A HX (1) 20A TEC	None	None	None	None	None	None
SS4B228LN1	None	None	None	None	None	None	None	None	None	None	None
SS4B228LX1	None	None	None	None	None	None	None	None	None	None	None
SS4B231KJ1	GE Infinity S, 48/24V, 600A NES4824-23-AC5H-PS8-DC1E	8	None	26	(1) 5A DAC (1) 15A for AC	None	220	20 Pos.	200A 2P	(1) 15A for GFCI (8) 20A 2P for Rectifiers (1) 2P 30A Surge	1
SS4B231VX1	None	None	None	None	None	None	220	None	None	None	None

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Charles Industries, LLC

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CUBE SS Series Large Site Support Cabinets

Integrated Power Configuration Detail

Charles Part #	Integrated Power System	DC DISTRIBUTION					AC INPUT WIRING				
		Rectifier Slots	Rectifiers in Config.	Circuit Breaker Positions	DC Breakers in Config.	GMT Positions	AC Input Voltage	Load Center	Main Breaker	AC Load Breakers	# Open Positions
SS4C215DB1	None	None	None	None	None	None	220	12 Pos.	125A 2P	(1) 15A - GFCI	11
SS4C215DB3	GE Infinity S, 48/24V, 400A NES4824-23-AC1-PS8-DC1E	8	(4) 50A, 48V	26	(1) 3A DAC (1) 5A for HX (2) 10A (12) 30A	None	220	12 Pos.	125A 2P	(1) 15A for GFCI (4) 40A 2P for Rectifiers (1) 2P 30A Surge	1
SS4C215XN1	None	None	None	None	None	None	220	None	None	None	None
SS4C218DB2	GE Infinity S, 48V, 300A NES48-19-AC5-PS6-DC1E	6	None	20	(1) 5A for HX (12) 25A (1) 250A	6 Positions	220	8 Position	100A 2P	(6) 20A Tandem for Rectifiers (1) 15A for GFCI (1) 15A for Surge	None
SS4C218KN1	None	None	None	None	None	None	220	None	None	None	None
SS4D207DB1	None	None	None	None	None	None	None	12 Pos.	125A 2P	(1) 15A - GFCI (1) 2P 30A Surge	9

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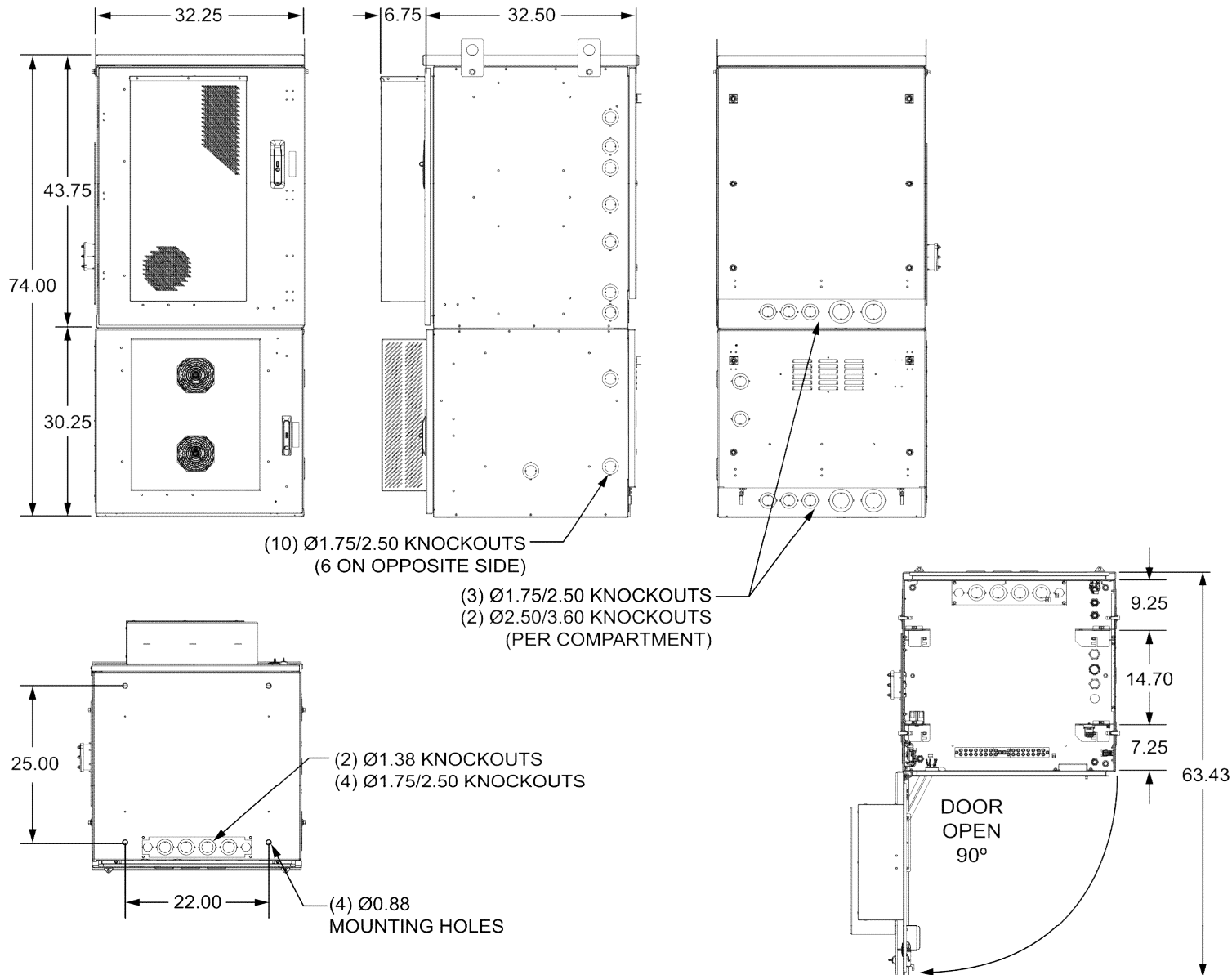
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CUBE SS Series Large Site Support Cabinets

CUBE-SS4B223xxx



CUBE-SS4x223xxx

Dimensions

All units in inches

FACTORY INSTALLED OPTIONS

96-000003-A
Retractable Overhang

97-002230-A
8" Top Hat Cable Entry
Compartment

96-002162-A
Factory Installed 6" Plinth

OG-OSP052-A24

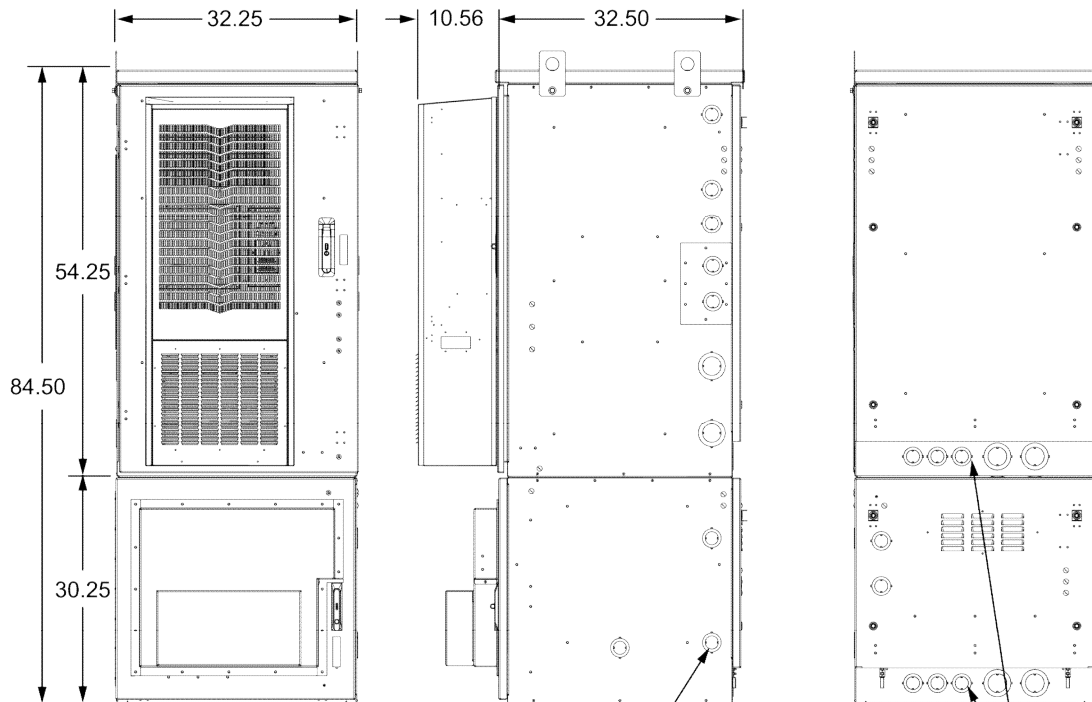
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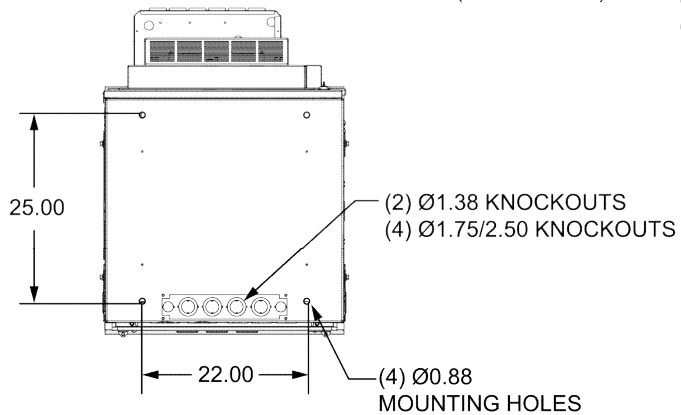
CUBE SS Series Large Site Support Cabinets

CUBE-SS4B228xxx



(8) Ø1.75/2.50 KNOCKOUTS
(2) Ø2.50/3.60 KNOCKOUTS
(BOTH SIDES)

(3) Ø1.75/2.50 KNOCKOUTS
(2) Ø2.50/3.60 KNOCKOUTS
(PER COMPARTMENT)



(2) Ø1.38 KNOCKOUTS
(4) Ø1.75/2.50 KNOCKOUTS

(4) Ø0.88
MOUNTING HOLES

CUBE-SS4x228xxx

Dimensions

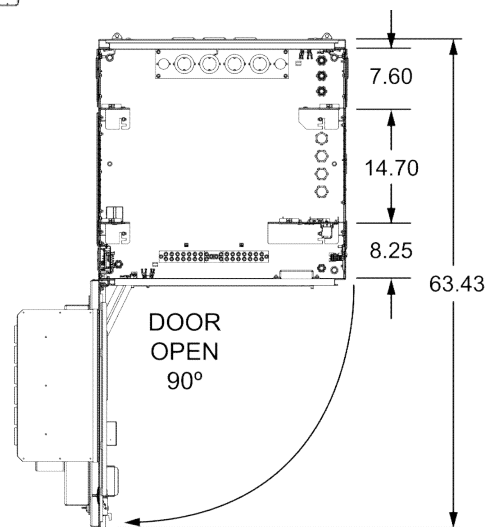
All units in inches

FACTORY INSTALLED OPTIONS

96-000003-A
Retractable Overhang

97-002230-A
8" Top Hat Cable Entry
Compartment

96-002162-A
Factory Installed 6" Plinth



OG-OSP052-A24

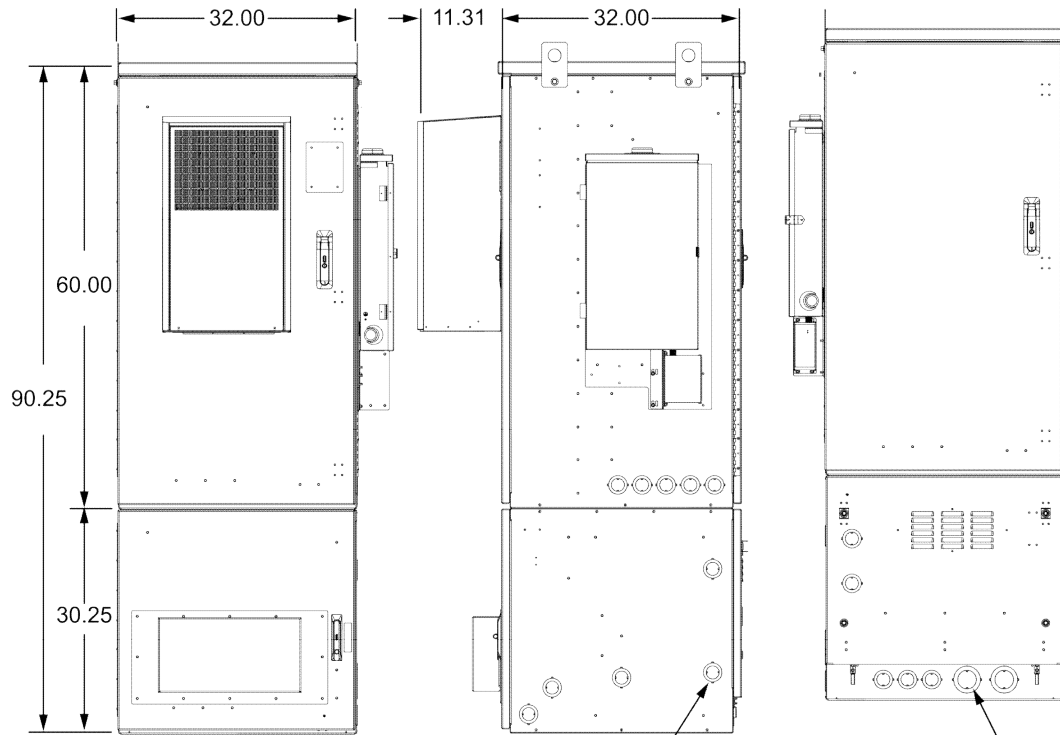
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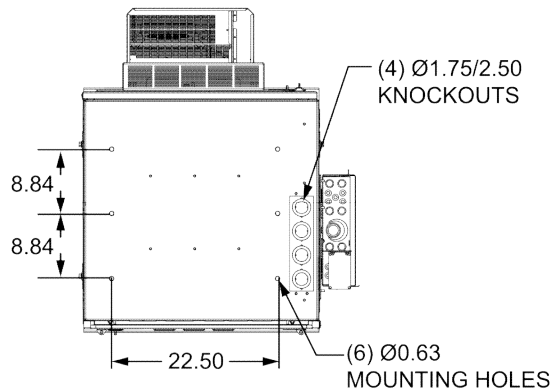
CUBE SS Series Large Site Support Cabinets

CUBE-SS4B231xxx



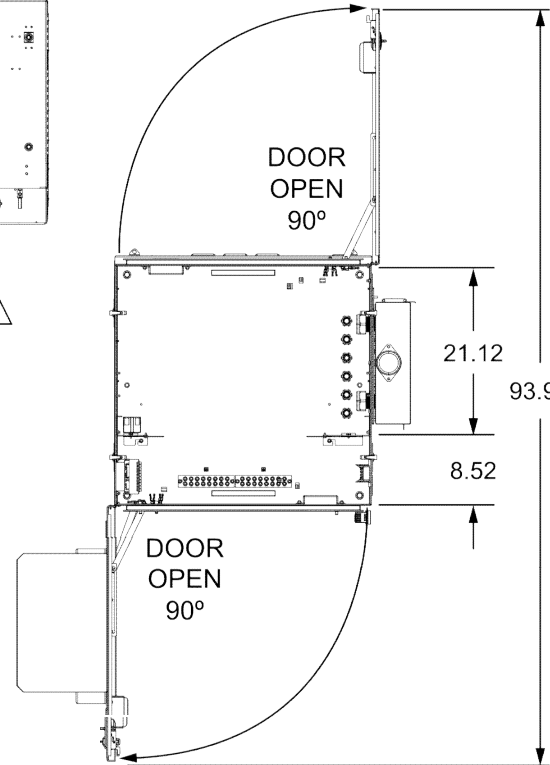
(10) Ø1.75/2.50 KNOCKOUTS
(BOTH SIDES)

(3) Ø1.75/2.50 KNOCKOUTS
(2) Ø2.50/3.60 KNOCKOUTS



(4) Ø1.75/2.50
KNOCKOUTS

(6) Ø0.63
MOUNTING HOLES



DOOR
OPEN
90°

DOOR
OPEN
90°

CUBE-SS4x231xxx

Dimensions

All units in inches

FACTORY INSTALLED OPTIONS

96-000003-A
Retractable Overhang

97-002230-A
8" Top Hat Cable Entry
Compartment

96-002162-A
Factory Installed 6" Plinth

OG-OSP052-A24

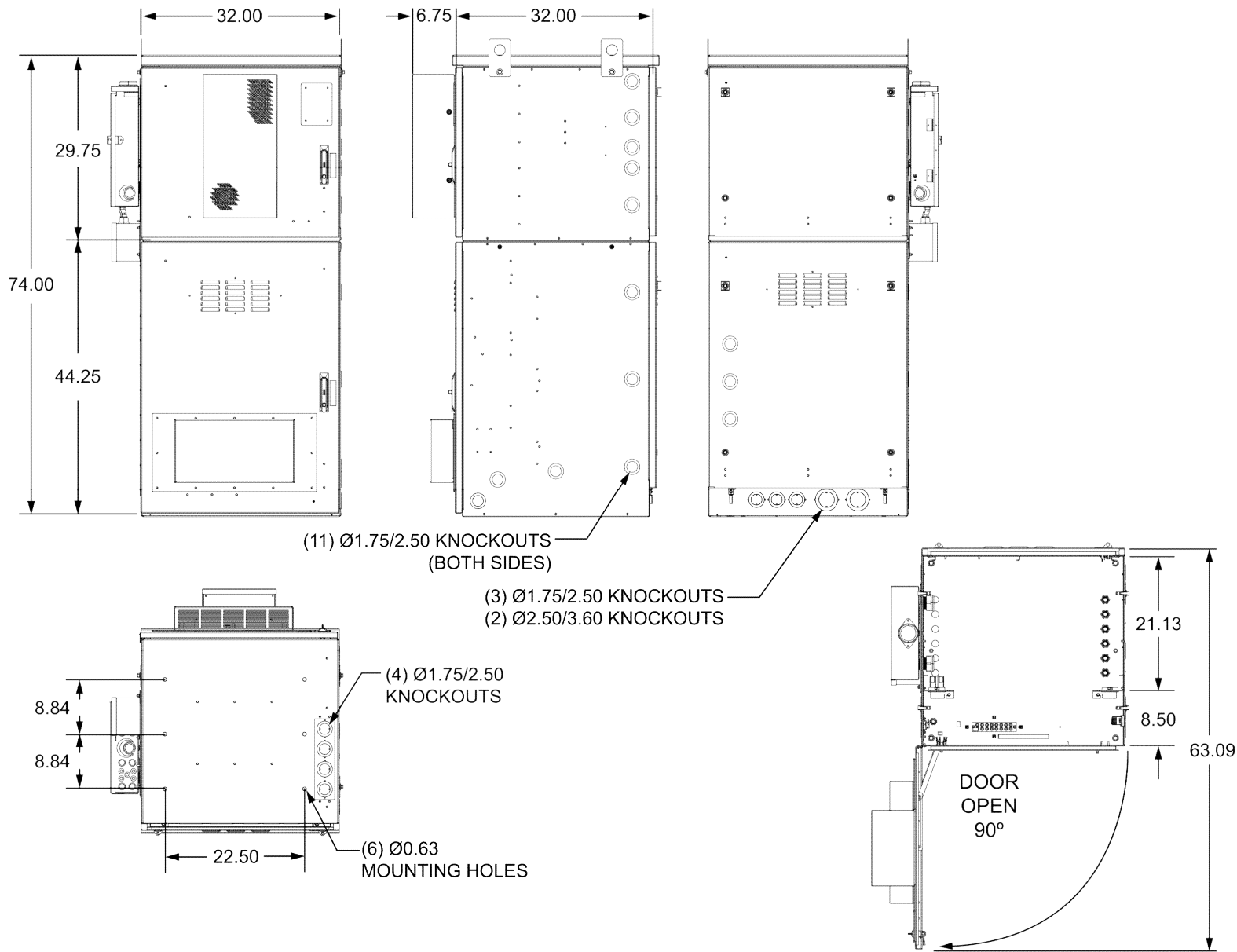
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CUBE SS Series Large Site Support Cabinets

CUBE-SS4C215xxx



CUBE-SS4x215xxx

Dimensions

All units in inches

FACTORY INSTALLED OPTIONS

96-000003-A
Retractable Overhang

97-002230-A
8" Top Hat Cable Entry
Compartment

96-002162-A
Factory Installed 6" Plinth

OG-OSP052-A24

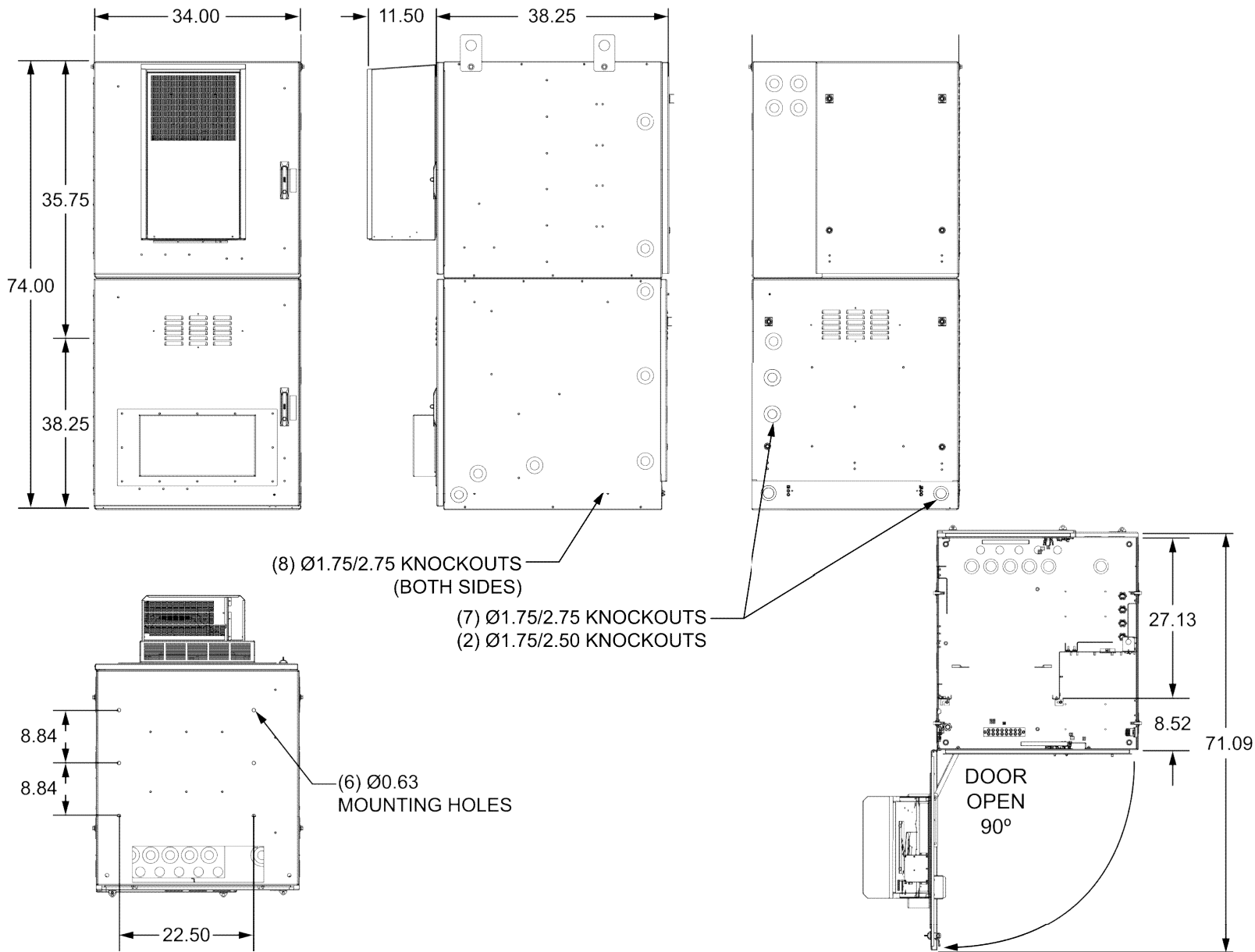
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CUBE SS Series Large Site Support Cabinets

CUBE-SS4C218xxx



CUBE-SS4x218xxx

Dimensions

All units in inches

FACTORY INSTALLED OPTIONS

96-000003-A
Retractable Overhang

97-002230-A
8" Top Hat Cable Entry
Compartment

96-002162-A
Factory Installed 6" Plinth

OG-OSP052-A24

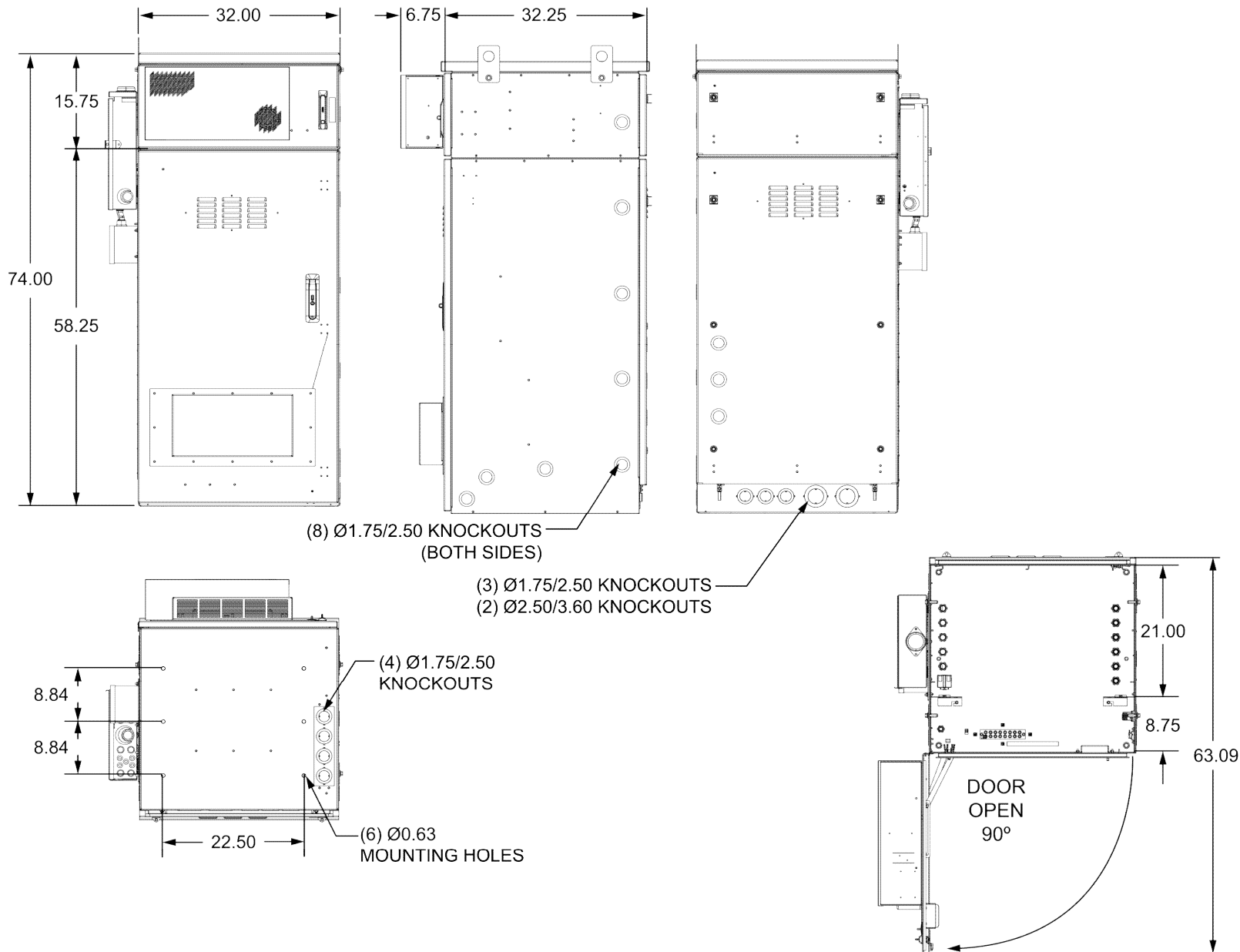
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CUBE SS Series Large Site Support Cabinets

CUBE-SS4C207xxx



CUBE-SS4x207xxx

Dimensions

All units in inches

FACTORY INSTALLED OPTIONS

96-000003-A
Retractable Overhang

97-002230-A
8" Top Hat Cable Entry
Compartment

96-002162-A
Factory Installed 6" Plinth

OG-OSP052-A24

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