Owner: Engineering		SUBTL SR2-3xIT racks	SR2N03010FAA1		
Author: Michael Gmerek	Vertiv Co.	10kW-Power and Cooling Redundancy	-SUBTL		
Date: 4/1/2024		SmartRow 2 Submittal	Rev B		

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Smart Row 2 Site Planning Datasheet (208V, 3 phase, 4 wire + PE)

Configuration Number	Part Number	Max Row Capacity (kW)	IT Racks per Row	Capacity per Rack (kW)	Cooling Units per Row	pdu count	Main Input Breaker Size ⁶	Per Condenser Breaker Size	Per Condenser Dry Weight kg (lbs)	Row Dimensions (L x H x D) mm (in)7	Row Weight kg (lbs)	Min. Staging Area m2 (ft2)
1	SR2N02010NAA1	10	2	5	1	2	100A	N/A ⁵	60 (132.3)	2100 (82.7) x 2271 (107) x 1400 (55.2)	1463 (3227)	14.41 (155.2)
2	SR2N02010PAA1	10	2	5	1	4	100A	N/A ⁵	60 (132.3)	2100 (82.7) x 2271 (107) x 1400 (55.2)	1491 (3288)	14.99 (161.4)
3	SR2N02010FAA1	10	2	5	2	4	100A	N/A ⁵	60 (132.3)	2400 (94.5) x 2271 (107) x 1400 (55.2)	2112 (4656)	17.67 (190.2)
4	SR2N03010NAA1	10	3	3	1	3	100A	N/A ⁵	60 (132.3)	2700 (106.3) x 2271 (107) x 1400 (55.2)	1633 (3601)	15.76 (169.7)
5	SR2N03010PAA1	10	3	3	1	6	100A	N/A ⁵	60 (132.3)	2700 (106.3) x 2271 (107) x 1400 (55.2)	1675 (3694)	16.34 (175.9)
6	SR2N03010FAA1	10	3	3	2	6	100A	N/A ⁵	60 (132.3)	3000 (118.2) x 2271 (107) x 1400 (55.2)	2296 (5061)	19.02 (204.8)
7	SR2N03020NAA1	20	3	6	1	3	175A	15A	118 (260.2)	2700 (106.3) x 2271 (107) x 1400 (55.2)	1863 (4108)	18.46 (198.8)
8	SR2N03020PAA1	20	3	6	1	6	175A	15A	118 (260.2)	2700 (106.3) x 2271 (107) x 1400 (55.2)	1905 (4201)	20.51 (220.8)
9	SR2N03020FAA1	20	3	6	2	6	175A	15A	118 (260.2)	3000 (118.2) x 2271 (107) x 1400 (55.2)	2526 (5568)	24.42 (262.9)
10	SR2N04020NAA1	20	4	5	1	4	175A	15A	118 (260.2)	3300 (130) x 2271 (107) x 1400 (55.2)	2033 (4483)	19.81 (213.3)
11	SR2N04020PAA1	20	4	5	1	8	175A	15A	118 (260.2)	3300 (130) x 2271 (107) x 1400 (55.2)	2089 (4607)	21.86 (235.3)
12	SR2N04020FAA1	20	4	5	2	8	175A	15A	118 (260.2)	3600 (141.8) x 2271 (107) x 1400 (55.2)	2710 (5974)	25.77 (277.4)
13	SR2N05020NAA1	20	5	4	1	5	175A	15A	118 (260.2)	3900 (153.6) x 2271 (107) x 1400 (55.2)	2203 (4858)	21.16 (227.8)
14	SR2N05020PAA1	20	5	4	1	10	175A	15A	118 (260.2)	3900 (153.6) x 2271 (107) x 1400 (55.2)	2273 (5012)	23.21 (249.9)
15	SR2N05020FAA1	20	5	4	2	10	175A	15A	118 (260.2)	4200 (165.4) x 2271 (107) x 1400 (55.2)	2894 (6380)	27.12 (292)

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- Notes:

 1. System Environmental Conditions: Indoors, 41 °F to 104 °F (5 °C to 40 °C), RH to 80% with Max dew point of 82.4 °F (28 °C)

 2. Floor surface must be level and continuous (expansion joints sealed, raised floor tile gaps sealed, no floor drains, etc).

 3. No building sprinkler head should be within 19.7 in (0.5 m).

 4. Install in accordance with national and local electrical codes

 5. 10kW condenser power is sourced from the indoor unit

 6. Cable Sizing: 100A = 3 AWG; 175A = 2/0 AWG

 7. Row Dimensions do not include necessary space needed for access including per ADA or local codes.

2

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REF DWG.	APPROVED BY:	Smart Row 2 Site Planning Datasheet (208V, 3 phase, 4 wire + PE)	REVISION	505 N. CLEVELAND AVE WESTERVILLE, OHIO	

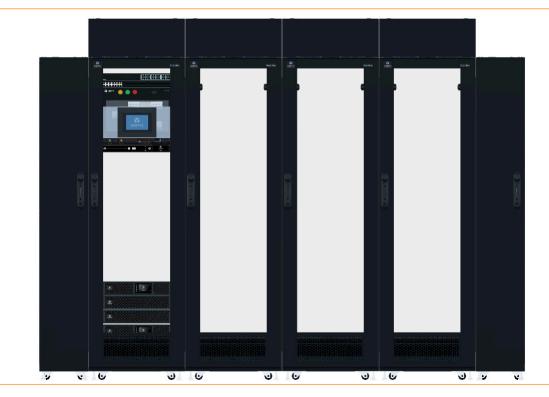
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Vertiv Row Solution

Knowledge to Build Optimized Infrastructure Solutions







Row IT Load Capacity: 10 kW Power Redundancy UPS: Yes Power Redundancy rPDU: Yes Cooling Redundancy: Yes Dimensions: Length: 9.84 ft Depth: 4.6 ft Height: 7.38 ft

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TITLE / DESCRIPTION:

Vertiv™ SmartRow™ 2: 3x IT Rack 10kW

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	=vRc	ow+PMC/9.g		PMC Logic														
	=vRc	ow+PMC/9.h		POE Switch	POE Switch													
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Full designation	Structure description	Please note: This document is intended to provide guid
Function designation		qualified electrical installer. The installer, of are responsible for adhering to all applicate
=vRow		electrical codes, regulations, laws, and sta
+PMC	UPS, Network Switch, FC Controller, PMU	in this document is intended to conflict the Vertiv is not responsible for any failure to
+Rack1	vRack 1	In addition, nothing in this document is int
+Rack2	vRack 2	with the applicable product manuals, insta or other product documentation, which do
+Rack3	vRack 3	precedence over this design document.
+Thermal	Thermal Components and Condenser	You are responsible for adhering to guidar appropriate product documentation, but for
		some such documents are accessible here
		Before installing, connecting to supply or the provided safety and regulatory statem. This system represents a functional unit of and the installer, owner, and end user are responsible for its proper operation.
		↑ WARNING
	Failure to compl	n and electric shock hazard. y can cause serious injury or death.

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ore installing, connecting to supply or start operation, please review provided safety and regulatory statements. s system represents a functional unit of an IT infrastructure solution, the installer, owner, and end user are ponsible for its proper operation.

shock hazard. serious injury or death. ting to supply or start operation, please review the provided **Safety and Regulatory Statements.**

Electrical work may only be carried out by qualified personnel.

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PAGE DESCRIPTION: 3- Structure identifier overview

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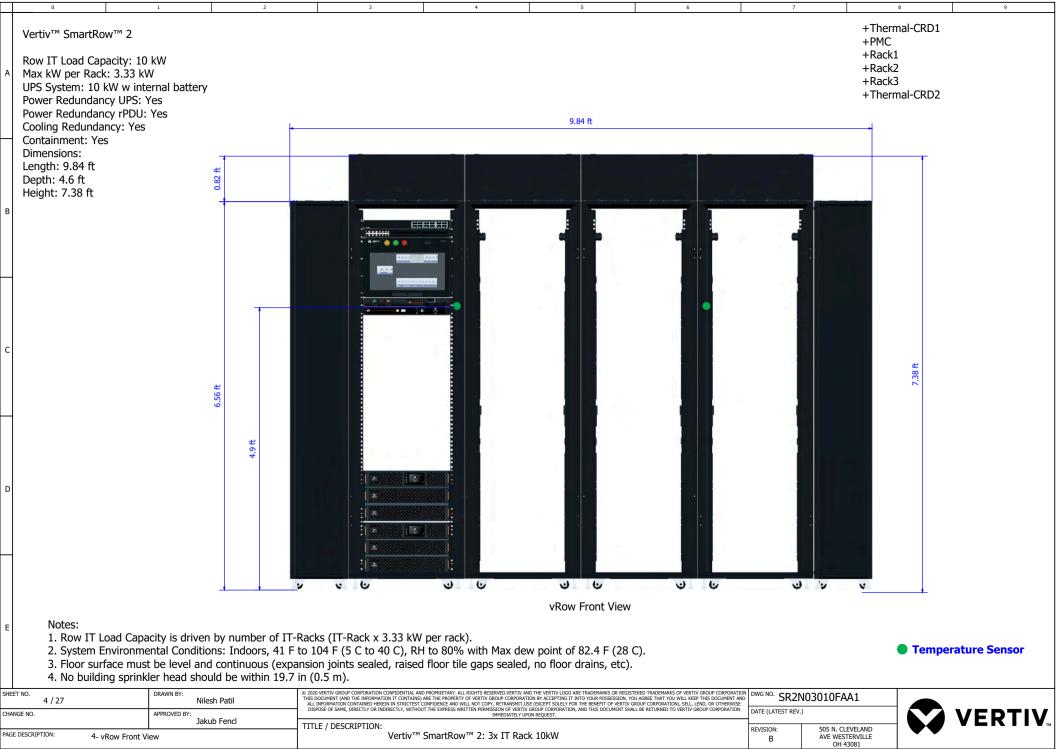
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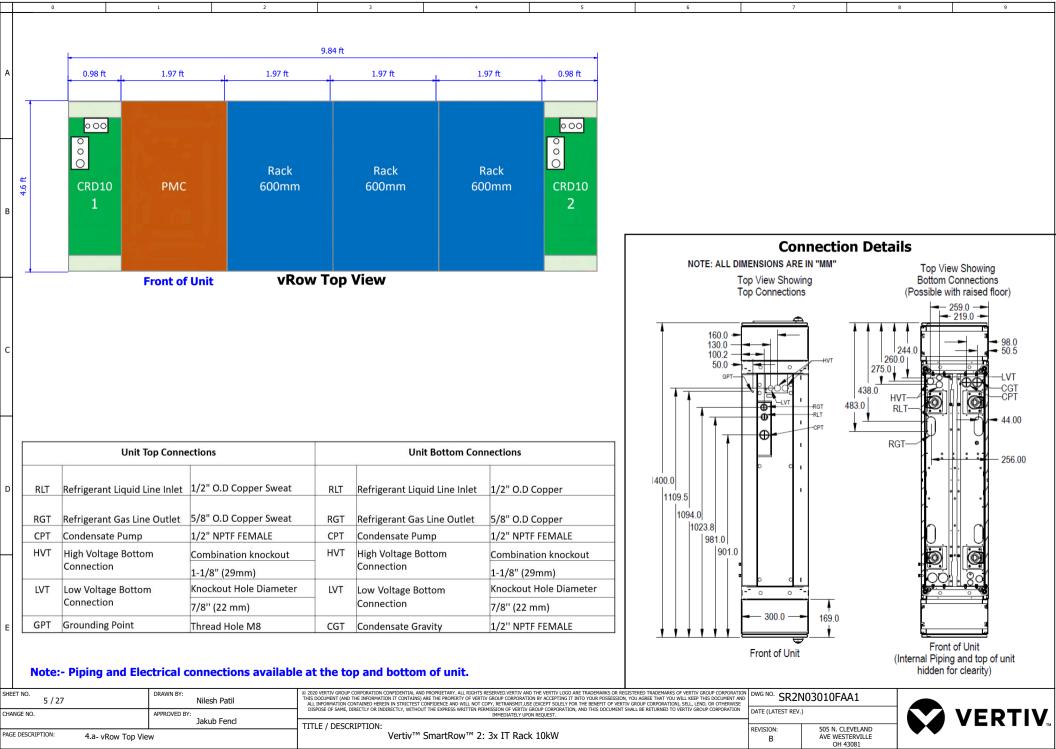
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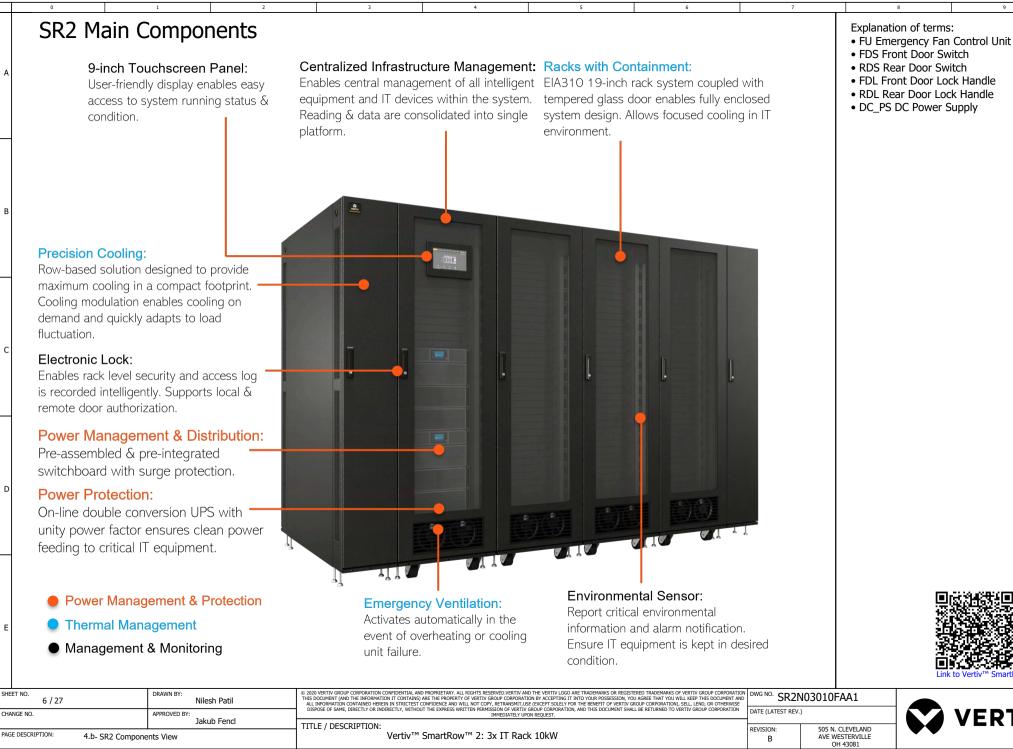
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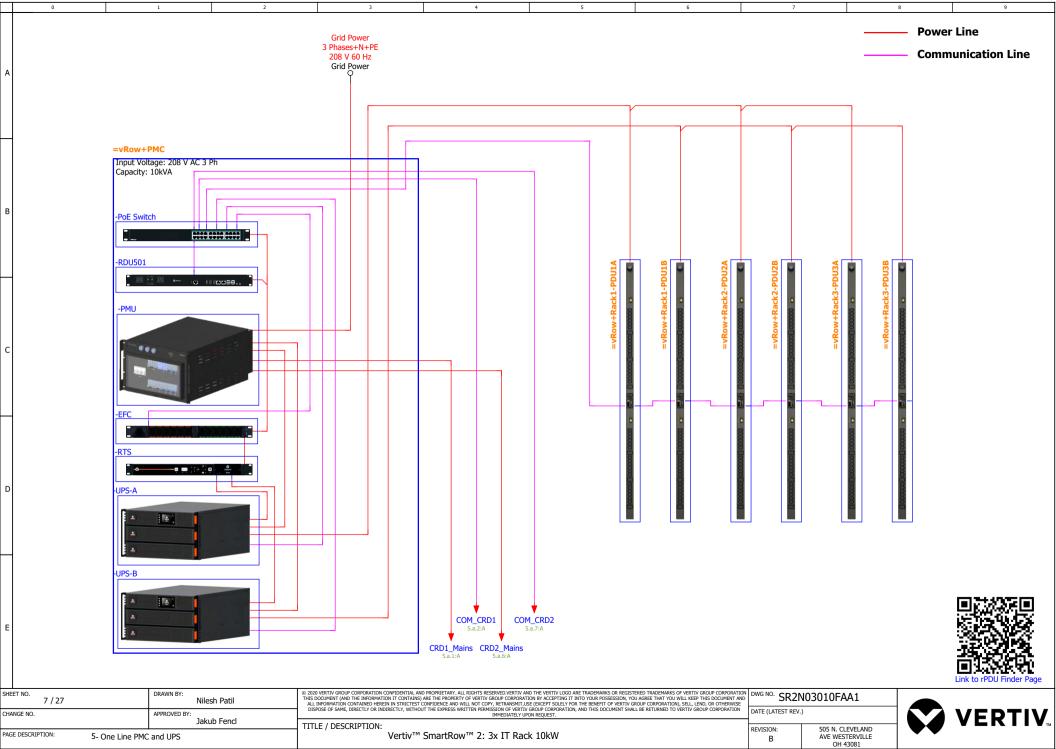
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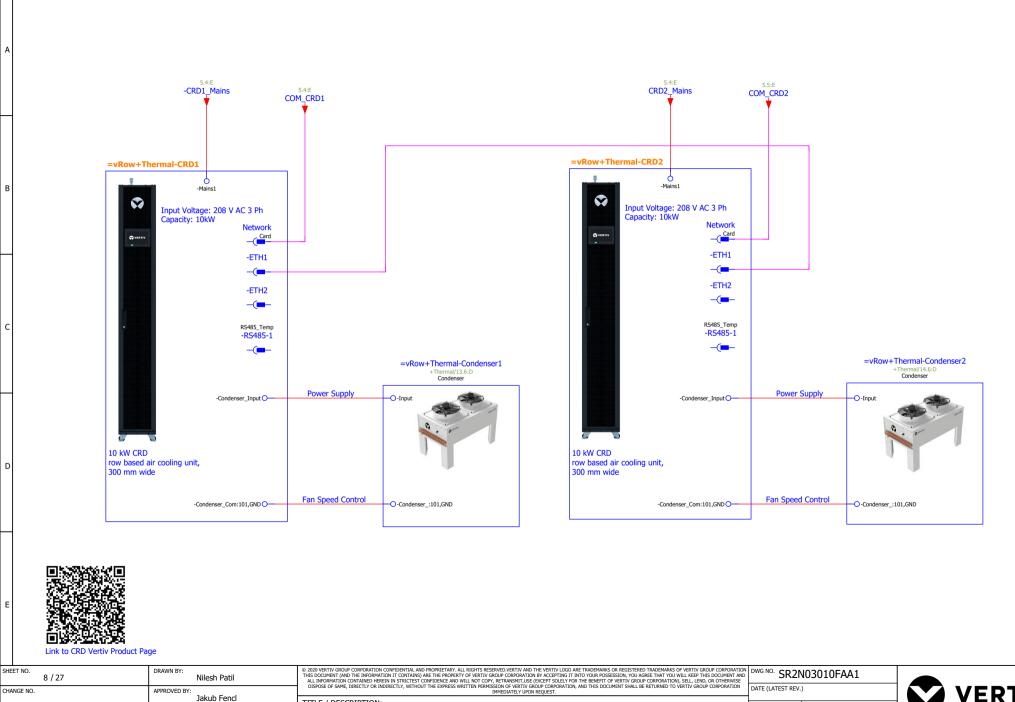
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5.a- One Line Diagram Thermal

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	VERTIV Supp	lied Cable & Parts	list					
A	Device Designation Schematic / position	Device Function		Designation		SKU Numb	er	
	+PMC-EFC +PMC/9.e.0:A	Emergency Fan Contro	ol PDU	rPDU, Switched Unit Level Monitoring EC, 30A, 208V, 4.9kW, Horizontal	VP53100			
	+PMC-PMU +PMC/9.0:A	10kW PMC		PMC,MSR2-New designed PMC for NAM (SKU TBD) - 1P = GXT5 - 20kVA Rack (600w, HMI, SmartLock x2, THD x1, LED, FC, 4G Modem), qty: 1, RDU 501 (8COM	card x1)	MSR2-NP	2DS2G22	
	+PMC-POE Switch +PMC/9.h.1:B	POE Switch		POE Switch for Smart Aisle or Smart Row NAM Solutions		POESwitch	h24Port	
	+PMC-RDU501 +PMC/9.f.0:A	RDU501 Controller		Liebert RDU501 Intelligent Infrastructure Management Solution		RDU501		
В	+PMC-RTS +PMC/9.d.1:B	Rack Transfer Switch		rPDU, Rack Transfer Switch Basic Upgradable, 30A, 208V, 4.9kW, Horizontal (1) NEMA L6-30R, 10ft / 3m power cords with L6-30P, Black Powder Coat.		VA1N3100	0	
	+PMC-UPS-A +PMC/9.b.2:A	GXT5 10 kW UPS-A		UPS GXT5 10 kW 208 V 60 Hz 2 Phases 6U, optinal 1x PD2 POD		GXT5-10K	(MVRT6UXLN	
	+PMC-UPS-A-POD1 +PMC/9.b.5:A	POD PD2-103		Power Output Distribution 4x 5-15/20R T-Slot and 4x L6-30R		PD2-103		
	+PMC-UPS-B +PMC/9.c.2:A	GXT5 10 kW UPS-B		UPS GXT5 10 kW 208 V 60 Hz 2 Phases 6U, optinal 1x PD2 POD		GXT5-10K	(MVRT6UXLN	
	+PMC-UPS-B-POD1 +PMC/9.c.5:A	POD PD2-103		Power Output Distribution 4x 5-15/20R T-Slot and 4x L6-30R		PD2-103		
С	+Rack1-PDU1A +Rack1/10.2:A	PDU for Rack 1		rPDU, Monitored Unit Level EC, 30A, 208V, 4.9kW, Vertical (36) IEC C13, (6) IEC C19, 15ft power cord with L6-30P, Black Powder Coat.			5	
	+Rack1-PDU1B +Rack1/10.2:B	PDU for Rack1		rPDU, Monitored Unit Level EC, 30A, 208V, 4.9kW, Vertical (36) IEC C13, (6) IEC C19, 15ft power cord with L6-30P, Black Powder Coat.	VP4N3025			
	+Rack2-PDU2A +Rack2/11.2:A	PDU for Rack 2		rPDU, Monitored Unit Level EC, 30A, 208V, 4.9kW, Vertical (36) IEC C13, (6) IEC C19, 15ft power cord with L6-30P, Black Powder Coat.		VP4N3025	5	
	+Rack2-PDU2B +Rack2/11.2:B	PDU for Rack2		rPDU, Monitored Unit Level EC, 30A, 208V, 4.9kW, Vertical (36) IEC C13, (6) IEC C19, 15ft power cord with L6-30P, Black Powder Coat.	VP4N3025	5		
D	+Rack3-PDU3A +Rack3/12.2:A	PDU for Rack 3		rPDU, Monitored Unit Level EC, 30A, 208V, 4.9kW, Vertical (36) IEC C13, (6) IEC C19, 15ft power cord with L6-30P, Black Powder Coat.		VP4N3025	5	
	+Rack3-PDU3B +Rack3/12.2:B	1.20.101.146.15		rPDU, Monitored Unit Level EC, 30A, 208V, 4.9kW, Vertical (36) IEC C13, (6) IEC C19, 15ft power cord with L6-30P, Black Powder Coat.			5	
	+Thermal-CRD-1 +Thermal/13.0:A	Thermal Indoor Unit1		CRD101 10kW CRV row based Air cooling unit 300 mm wide 208 V 3Ph+PE	CRD101-0D00A			
	+Thermal-CRD-2 +Thermal/14.0:A	Thermal Indoor Unit2		CRD101 10kW CRV row based Air cooling unit 300 mm wide 208 V 3Ph+PE	CRD101-0	DD00A		
	+Thermal-Condenser1 +Thermal/13.6:D	Thermal Outdoor Unit	1	Air Cooled Condenser CCD10 for NAM CRD101 208 V 3ph		CCD100S-	-00A	
Е	+Thermal-Condenser2 +Thermal/14.6:D	Thermal Outdoor Unit	2	Air Cooled Condenser CCD10 for NAM CRD101 208 V 3ph	CCD100S-	CCD100S-00A		
	+Thermal-W4 +Thermal/13.4:C	Teaming_CRD-1/CRD-	2	Unit to Unit communication (Teamwork)	Factory Su	upplied		
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	Customer Su	pplied Cable & Pa	rts list				·		
Δ	Device Designation Schematic / position	Designation			Description				
,	+Thermal-WA1 +Thermal/13.3:D	Power cable between 2 Wire + PE, 16AWG			Power Cable CR	D to CCD			
	+Thermal-WA2 +Thermal/14.3:D	Power cable between 2 Wire + PE, 16AWG			Power Cable CR	D to CCD			
	+Thermal-WB1 +Thermal/13.4:E	Fan speed control con CRD to CCD	mmunication cable		Fan speed contr	ol communi	cation cable		
	+Thermal-WB2 +Thermal/14.4:E	Fan speed control con CRD to CCD	mmunication cable		Fan speed contr	ol communio	cation cable		
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Cable overview Cross-section Cable type **Function text Device tag** Conductors Length (m) (AWG) RACK1 to RACK2 power cascade cable +Rack1-W201 2 22 0.85 Smart door lock cascade +Rack2-W201 2 22 0.85 RACK2 to RACK3 power cascade cable +Rack3-W202 2 22 0.85 RACK3 to CRD2 power cascade cable 5 CRD Teaming Cable Teaming CRD-1/CRD-2 +Thermal-W4 +PMC-PMU-W104 1.7 Communication cable PMU to 4DI SPD communication network cable 1 PMU to RDU501 COM3 meter communication network cable +PMC-PMU-W105 1 1.8 PMU to RDU501 D02 Control Red Light Cable +PMC-PMU LED Control-W102 1.8 1 PMU to RDU501 DO1 Strobe siren control cable +PMC-PMU LED Control-W103 1 PMC to RDU501_COM1 intelligent door lock front door com. cable +PMC-W101 0.9 1 4DI to RDU501 Sensor2 SPD Communication Network Cable +PMC-W106 1 0.3 PMC to RDU501 COM1 intelligent door lock rear door com. cable +PMC-W107 1 0.9 RDU501 COM2 to HMI communication cable +PMC-W108 1 0.8 0.7 PMC to RDU501 to PMC cabinet THD communication cable +PMC-W109 1 0.8 FC to Switch communication cable +PMC-W114 1 PDU to Switch communication cable +Rack1-W115 1 3.5 3 PDU1A to PDU1B communication cable +Rack1-W116 1 3 +Rack2-W116 PDU1B to PDU2A communication cable 1 3 PDU2B to PDU3A communication cable +Rack3-W116 1 CRD1 to Switch communication cable +Thermal-W110 1 0.85 CRD2 to Switch communication cable +Thermal-W111 1 3.5 Smoke1 to CRV-Door microswitch cable +Thermal-W401 1 1 Emergency fan to FC PMC Emergency fan to FC controller cable +PMC-W209 3 18 1.2 Rack1 Emergency fan to FC controller cable +Rack1-W208 3 18 4.5 Rack2 Emergency fan to FC controller cable +Rack2-W208 3 18 4.5 Rack3 Emergency fan to FC controller cable +Rack3-W208 3 18 5.5 Front door light cascade PMC to Rack1 front door LED light power cable +PMC-PMU_LED Control-W210 4 20 1 RACK1 to RACK2 front door LED light cascade cable +Rack1-W210 20 0.75 Please note: Always when "conductor" = 1, or "Cross-section" is empty, it represents a network/communication cable. © 2020 VERTIV GROUP CORPORATION CONFIDENTIAL AND PROPRIETARY, ALL RIGHTS RESERVED.VERTIV AND THE VERTIV LOGO ARE TRADEMARKS OR REGISTERED TRADEMARKS OF VERTIV GROUP CORPORATION THIS DOCUMENT AND THE INFORMATION IT CONTAINS, ARE THE PROPRETY OF VERTIV GROUP CORPORATION, AND ALL INFORMATION IT CONTAINS ARE THE PROPRETY OF VERTIV GROUP CORPORATION, AND ALL INFORMATION IT SHELL INFORMATION IT IN THIS DOCUMENT AND ALL INFORMATION IN STRICTES CONFIDENCE AND AND ALL INFORMATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION IN MEDICALLY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF VERTIV GROUP CORPORATION, AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION IN MEDICALLY CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THE VERTIVE CORPORATION AND THE VERTIVE CORPORATION AND THE VERTIVE CORPORATION AND THE VERTIVE CORPORATION SHEET NO. DRAWN BY: 11 / 27 Nilesh Patil CHANGE NO. APPROVED BY Jakub Fencl TITLE / DESCRIPTION: REVISION: 505 N. CLEVELAND PAGE DESCRIPTION: Vertiv™ SmartRow™ 2: 3x IT Rack 10kW 8- Cable overview: =vRow+Rack1-W201 -AVE WESTERVILLE

=vRow+Rack1-W210

Cable overview Cross-section Cable type **Function text Device tag** Conductors Length (m) (AWG) Cascaded cable for the end RACK front door light +Rack2-W211 4 20 0.75 Front door light cascade +PMC-PMU LED Control-W212 2 20 0.75 Front door microswitch cascade PMC to RACK1 front door microswitch cascade cable 2 20 0.75 RACK1 to RACK2 front door microswitch cascade cable +Rack2-W212 2 +Rack3-W213 20 0.75 Cascade cable for the end RACK front door microswitch Interconnection CRV/Condenser 2 22 Fan speed control +Thermal-WB1 Fan speed control CCD1 +Thermal-WB2 2 22 Power Cable CRD to condensor power cable +Thermal-WA1 3 16 PMU to PMC rear door LED light power cable +PMC-PMU_LED Control-W07 2 20 1.2 Power cable PMU to PMC front door LED light power cable +PMC-PMU_LED Control-W09 4 20 1.75 PMU to PMC front door microswitch power cable +PMC-PMU_LED_Control-W11 2 20 1.25 PMU to PMC rear door microswitch power cable +PMC-PMU_LED_Control-W12 2 20 1.25 PMU to UPS-A input cable +PMC-W01 4 6 2.4 +PMC-W02 4 PMU to UPS-B input cable 6 2.4 3 UPS-A to PMU output cable +PMC-W03 20 0.8 PMU to CRD2 output cable +PMC-W04 4 12 3.6 PMU to CRD1 output cable +PMC-W05 4 12 1.5 PMU to PMC intelligent door lock power cable +PMC-W06 2 22 1.2 +PMC-W08 2 22 2.2 PMU to HMI power cable PMC to RACK1 power cascade cable +PMC-W201 2 22 0.85 CRD to condensor power cable +Thermal-WA2 3 16 Rear door light cascade PMC to Rack1 rear door LED light power cable +PMC-PMU LED Control-W216 2 20 1 RACK1 to RACK2 rear door LED light power cable +Rack1-W216 2 20 0.75 Cascading cable for rear door light of the end RACK +Rack2-W217 2 20 0.75 20 Rear door microswitch cascade PMC to RACK1 rear door microswitch cascade cable +PMC-PMU LED Control-W214 2 0.75 RACK1 to RACK2 rear door microswitch cascade cable +Rack2-W214 2 20 0.75 Cascade cable for rear door microswitch of end RACK +Rack3-W215 2 20 0.75 Smart door lock cascade PMC to CRD1 communication cascade cables +PMC-W204 1 0.9 Please note: Always when "conductor" = 1, or "Cross-section" is empty, it represents a network/communication cable. © 2020 VERTIV GROUP CORPORATION CONFIDENTIAL AND PROPRIETARY, ALL RIGHTS RESERVED.VERTIV AND THE VERTIV LOGO ARE TRADEMARKS OR REGISTERED TRADEMARKS OF VERTIV GROUP CORPORATION THIS DOCUMENT AND THE INFORMATION IT CONTAINS, ARE THE PROPRETY OF VERTIV GROUP CORPORATION, AND ALL INFORMATION IT CONTAINS ARE THE PROPRETY OF VERTIV GROUP CORPORATION, AND ALL INFORMATION IT SHELL INFORMATION IT IN THIS DOCUMENT AND ALL INFORMATION IN STRICTES CONFIDENCE AND AND ALL INFORMATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION IN MEDICALLY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF VERTIV GROUP CORPORATION, AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION IN MEDICALLY CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THE VERTIVE CORPORATION AND THE VERTIVE CORPORATION AND THE VERTIVE CORPORATION AND THE VERTIVE CORPORATION DRAWN BY: Nilesh Patil APPROVED BY Jakub Fencl TITLE / DESCRIPTION: REVISION: 505 N. CLEVELAND Vertiv™ SmartRow™ 2: 3x IT Rack 10kW 8.a- Cable overview: =vRow+Rack2-W211 -AVE WESTERVILLE

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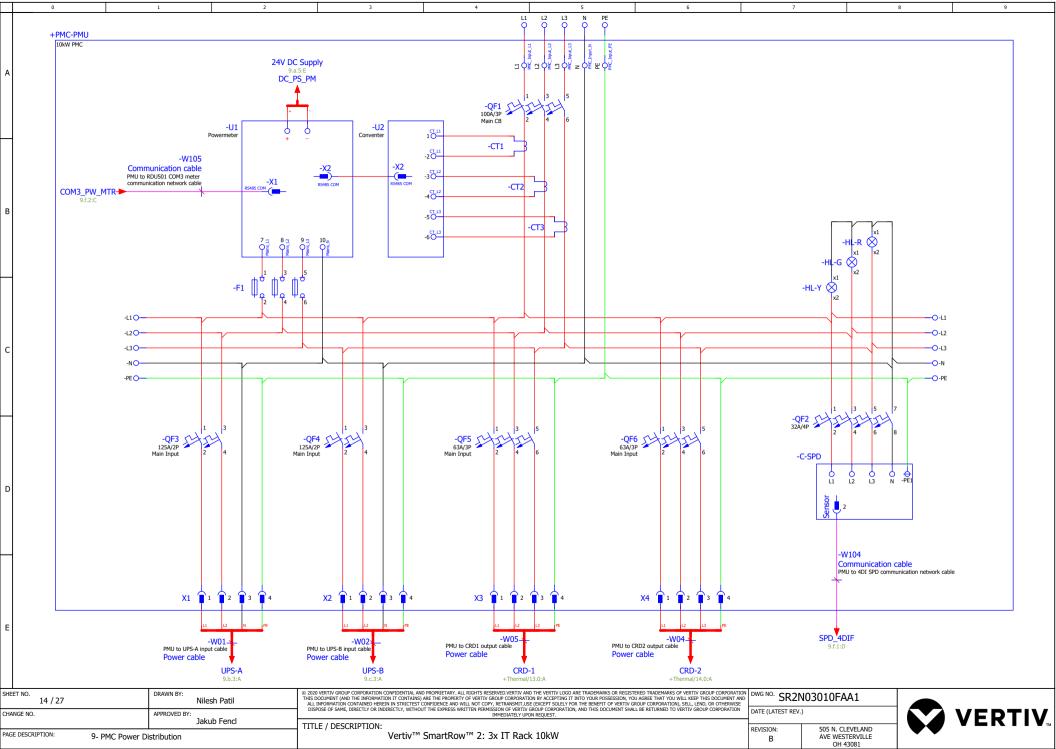
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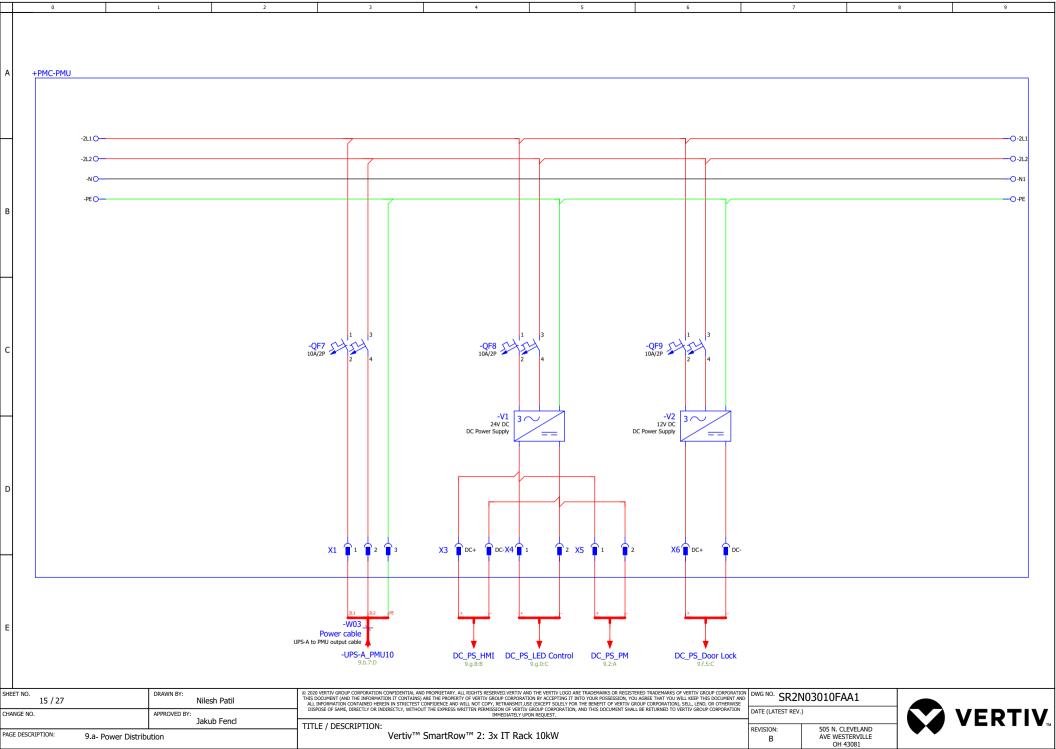
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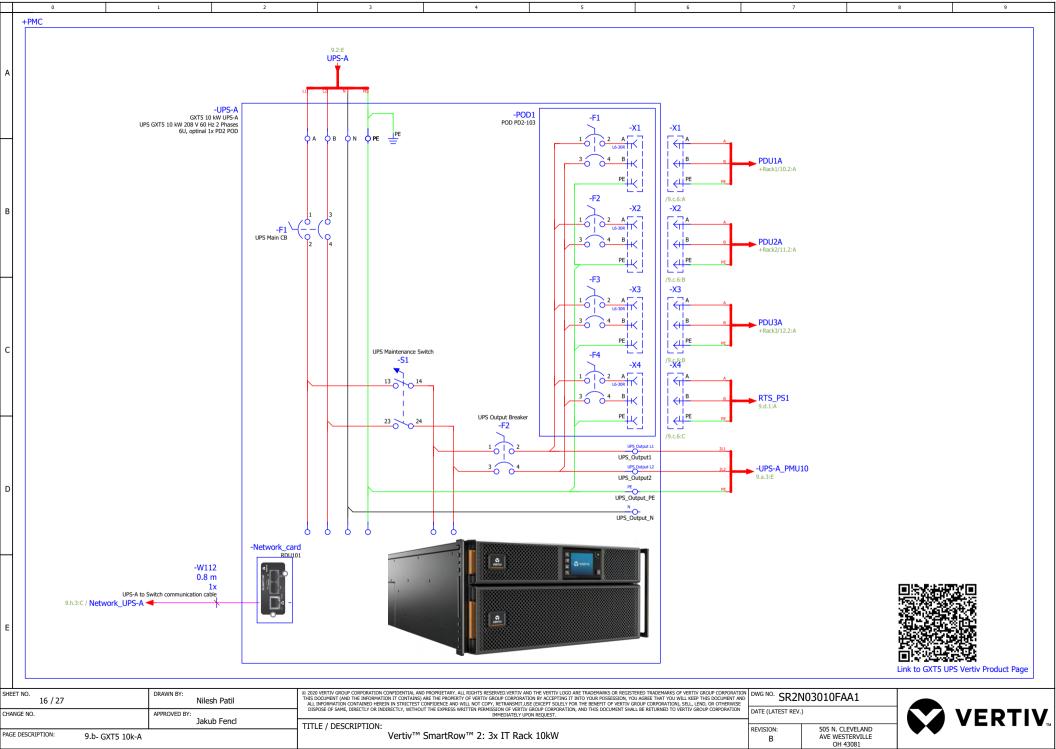
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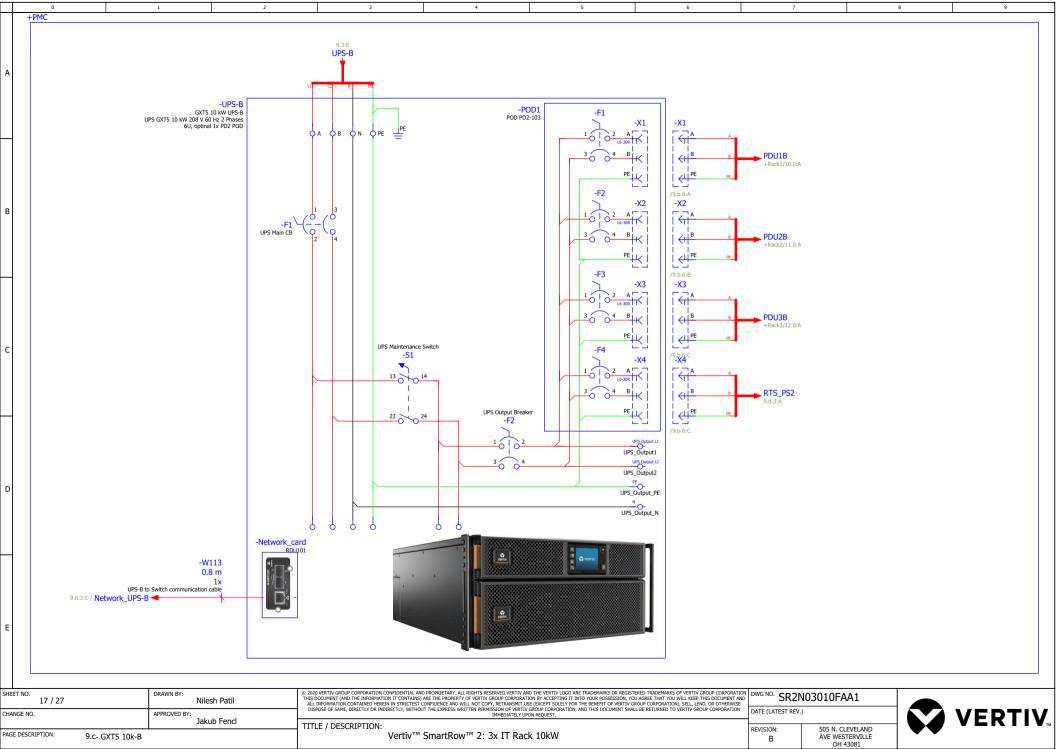
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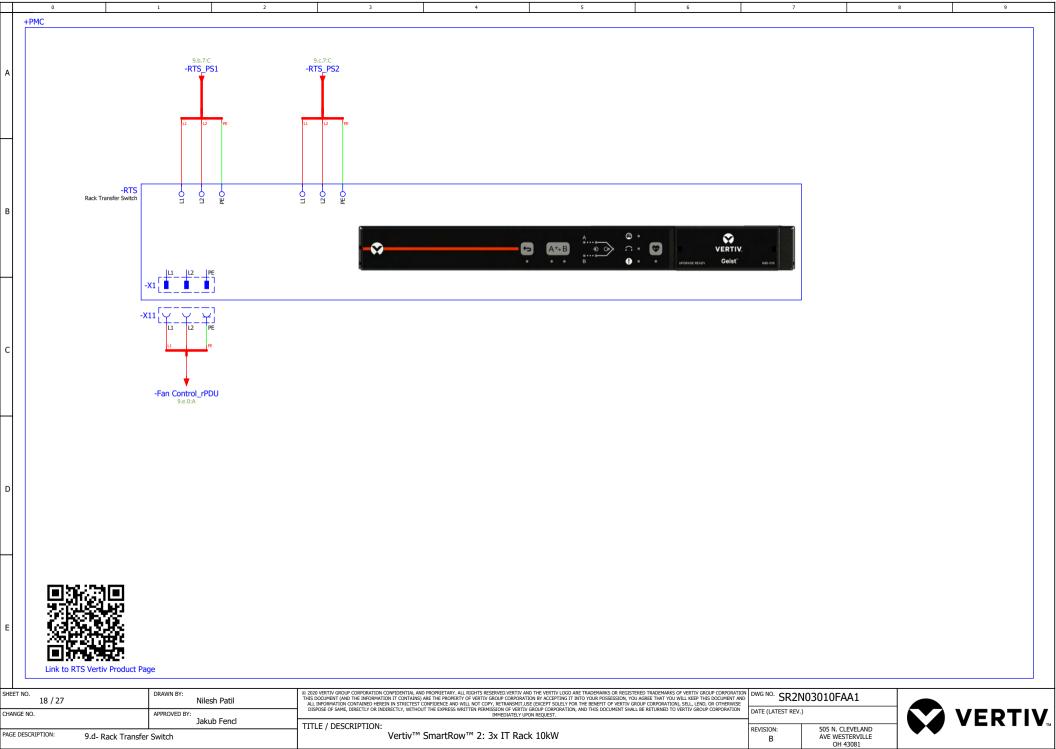
Cable overview Cross-section Cable type **Function text Device tag** Conductors Length (m) (AWG) Smart door lock cascade RACK1 to RACK2 communication cascade cables +Rack1-W205 1 0.85 +Rack2-W205 1 0.85 RACK2 to RACK3 communication cascade cables +Rack3-W206 1 0.85 RACK3 to CRD2 communication cascade cables +Thermal-W203 1.8 CRD1 to RACK1 communication cascade cables 1 2 THD cascading PMC to RACK1 Cascade Cable +PMC-W207 1 2 RACK1 to RACK2 Cascade Cable +Rack1-W207 1 RACK2 to RACK3 Cascade Cable +Rack2-W207 1 2 Please note: Always when "conductor" = 1, or "Cross-section" is empty, it represents a network/communication cable. © 2020 VERTIV GROUP CORPORATION CONFIDENTIAL AND PROPRIETARY, ALL RIGHTS RESERVED.VERTIV AND THE VERTIV LOGO ARE TRADEMARKS OR REGISTERED TRADEMARKS OF VERTIV GROUP CORPORATION THIS DOCUMENT AND THE INFORMATION IT CONTAINES, ARE THE PROPRETY OF VERTIV GROUP CORPORATION, AND AGREE THAT YOU WILL KEEP THIS DOCUMENT AND ALL INFORMATION IT CONTAINES ARE THE PROPRETY OF VERTIV GROUP CORPORATION, AND ALL INFORMATION IT SHICKETS CONFIDENCE AND WILL HOTCOPY, RETRANGENTLE, SECRET SOLLEY FOR THE BENEFIT OF VERTIV GROUP CORPORATION, SEL, LEND, OR OTHERWISE DISPOSE OF SAME, DIRECTLY OR INDIRECTLY, WITHOUT THE EXPRESS WRITTEN PERMISSION OF VERTIV GROUP CORPORATION, AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION IMPROVED THE VERTIVE GROUP CORPORATION IN MEDICAL PROPRIETS OF VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION THE VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION THE VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIV GROUP CORPORATION THE VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION. THE VERTIVE GROUP CORPORATION AND THE VERTIVE GROUP CORPORATION AND THIS DOCUMENT SHALL BE RETURNED TO VERTIVE GROUP CORPORATION. THE VERTIVE GROUP CORPORATION AND THE VERTIVE GROUP CORPORA DRAWN BY: SHEET NO. 13 / 27 Nilesh Patil CHANGE NO. APPROVED BY: Jakub Fencl TITLE / DESCRIPTION: REVISION: 505 N. CLEVELAND PAGE DESCRIPTION: Vertiv[™] SmartRow[™] 2: 3x IT Rack 10kW 8.b- Cable overview: =vRow+Rack1-W205 -AVE WESTERVILLE =vRow+Rack2-W207

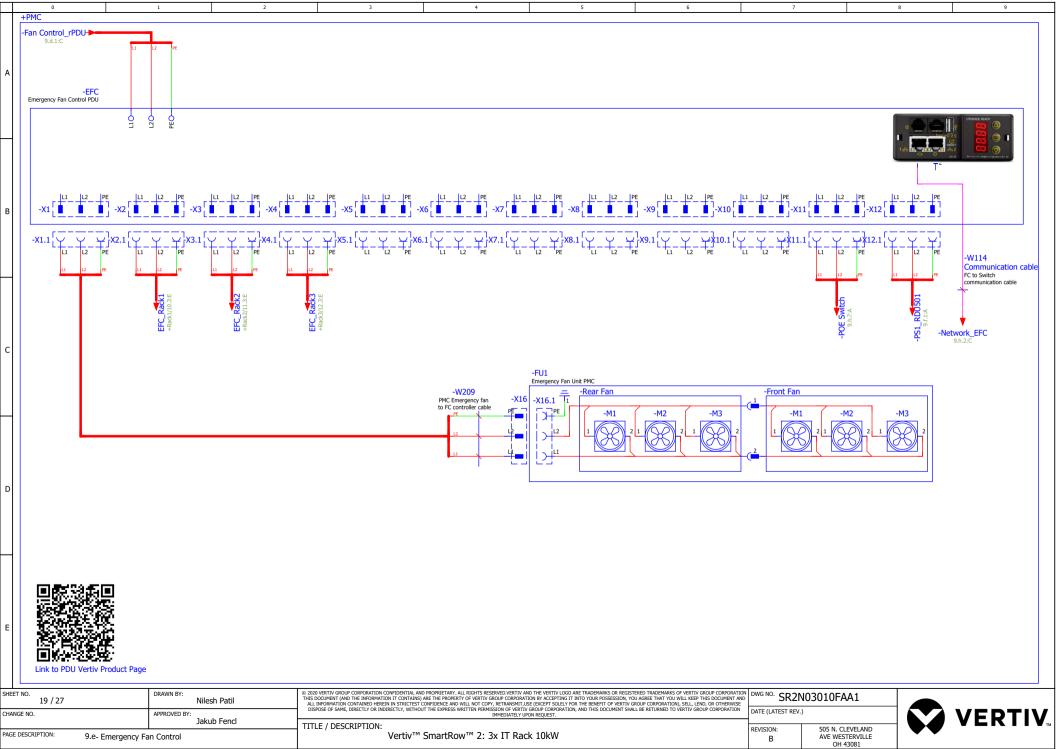


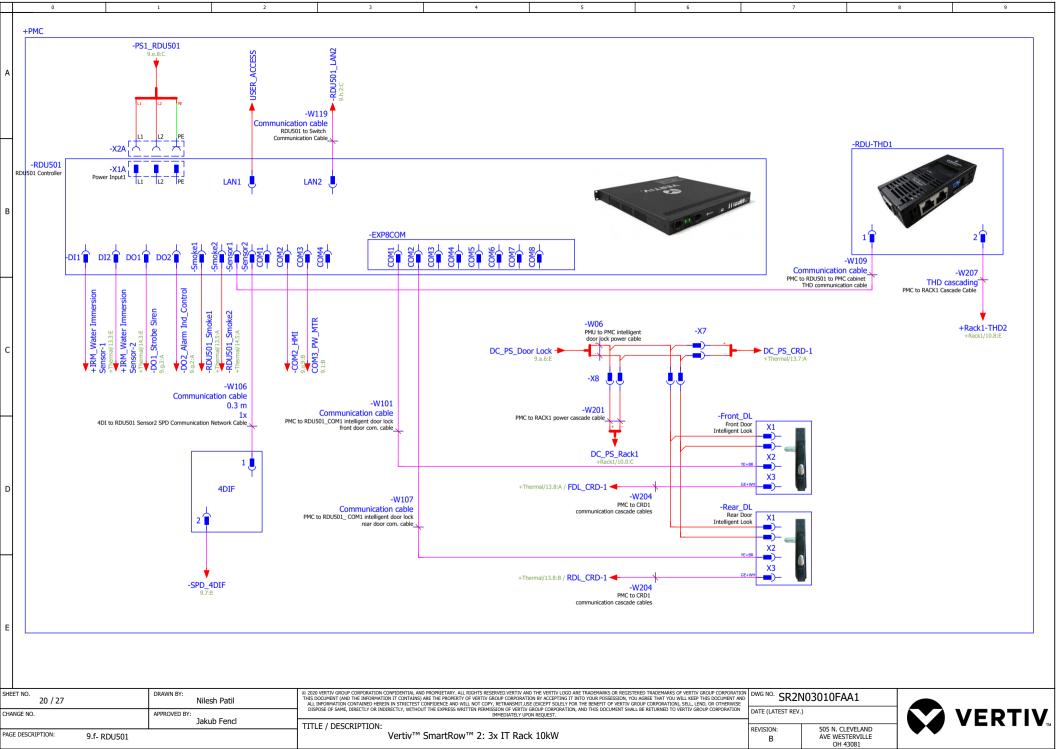


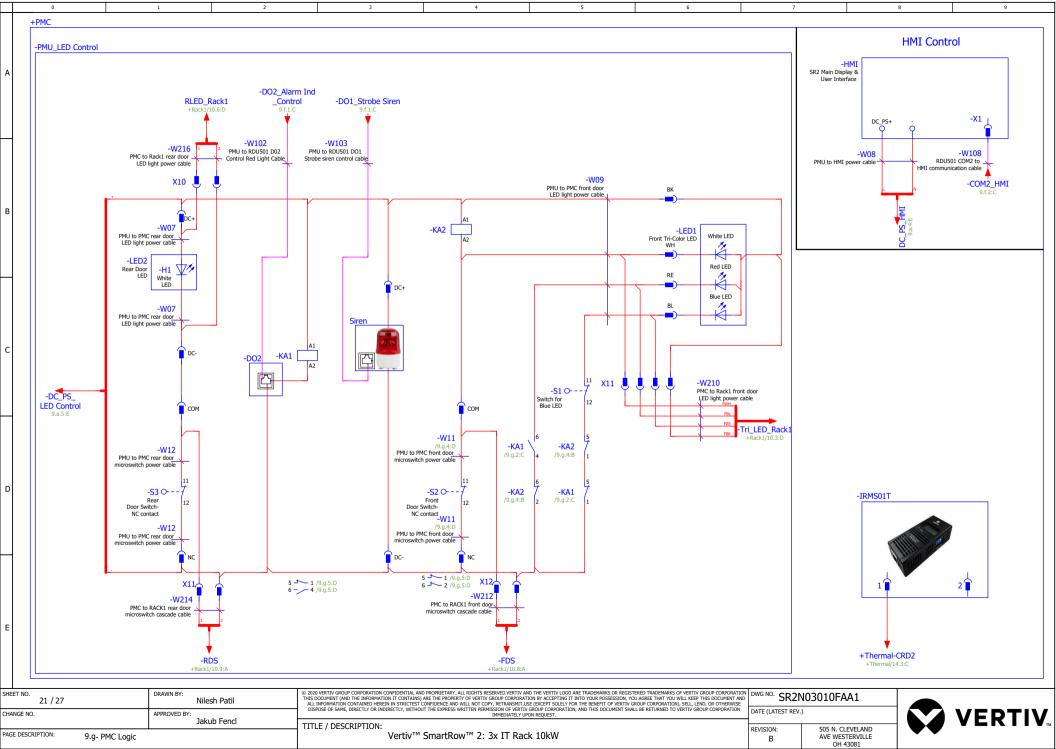


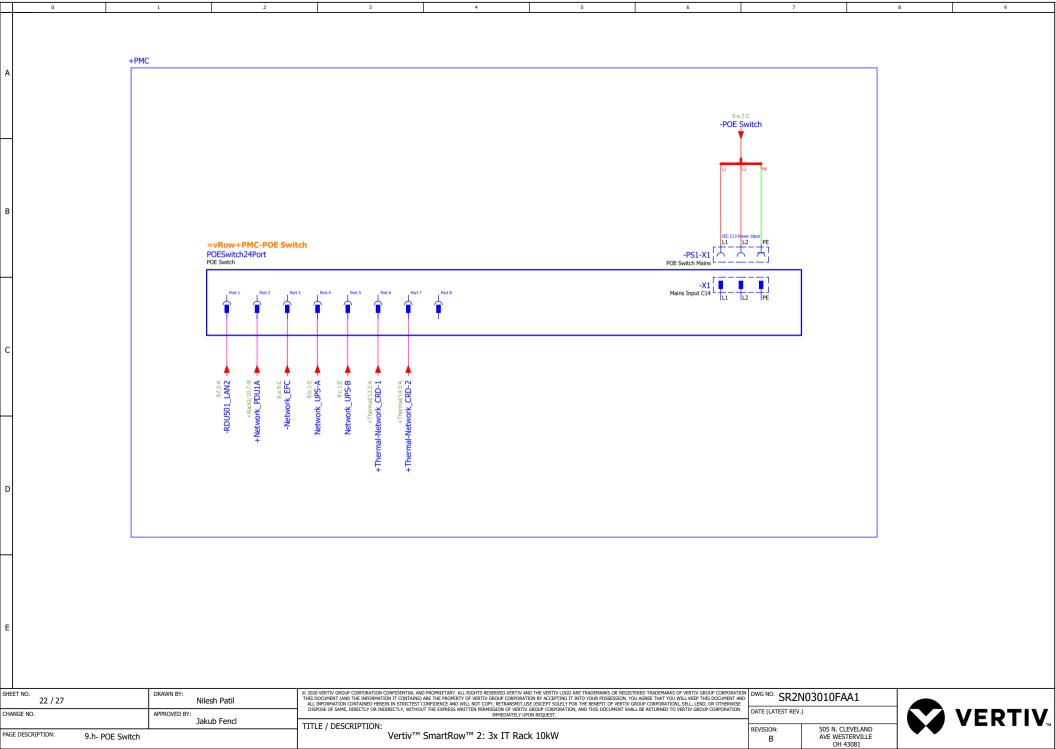


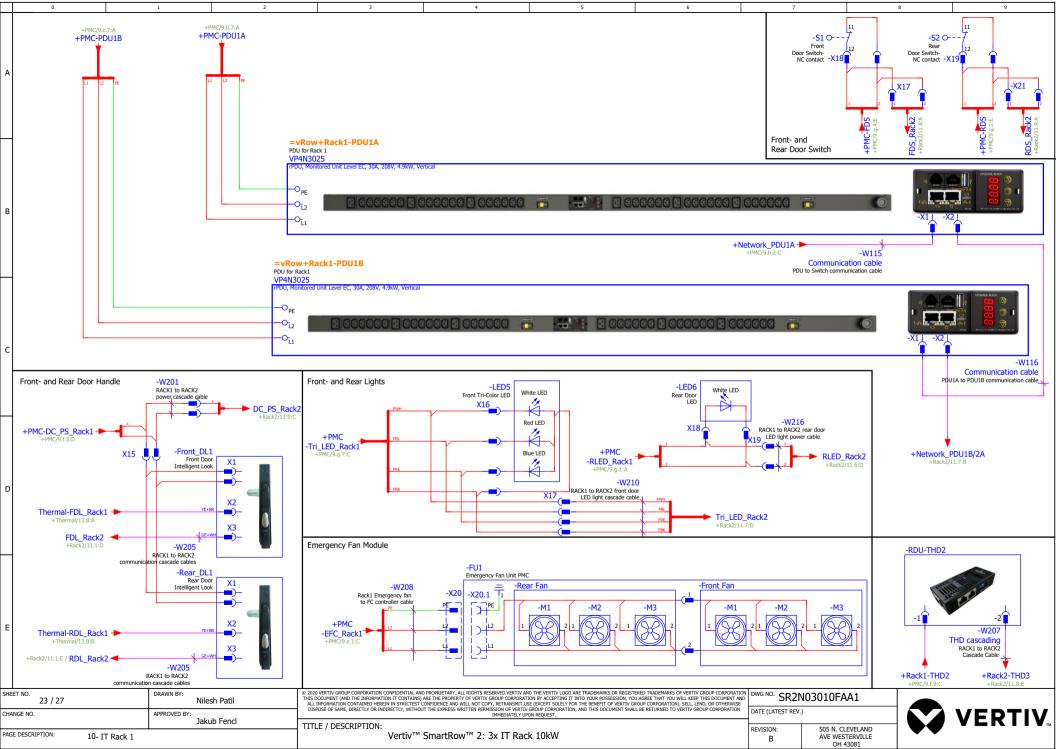


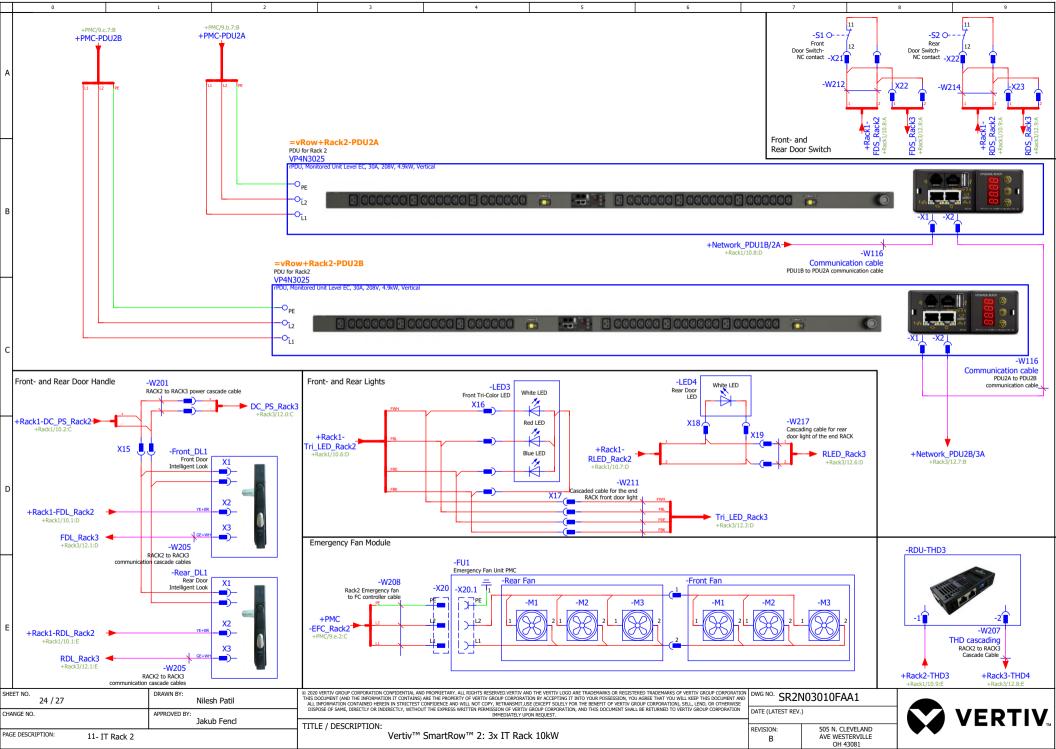


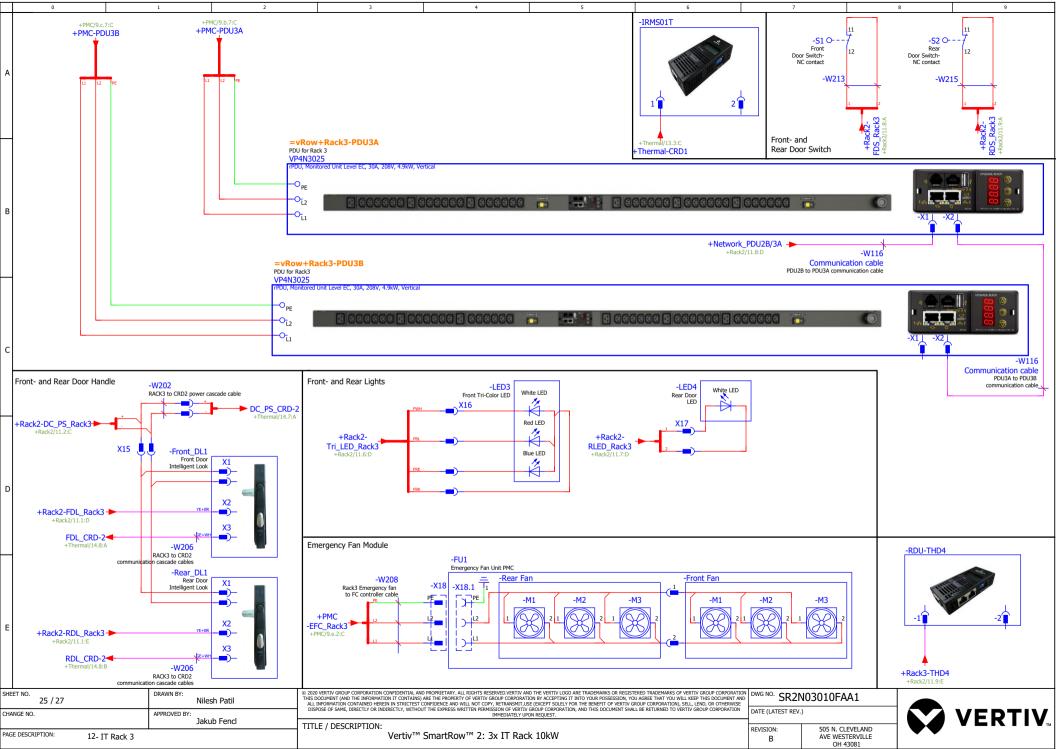


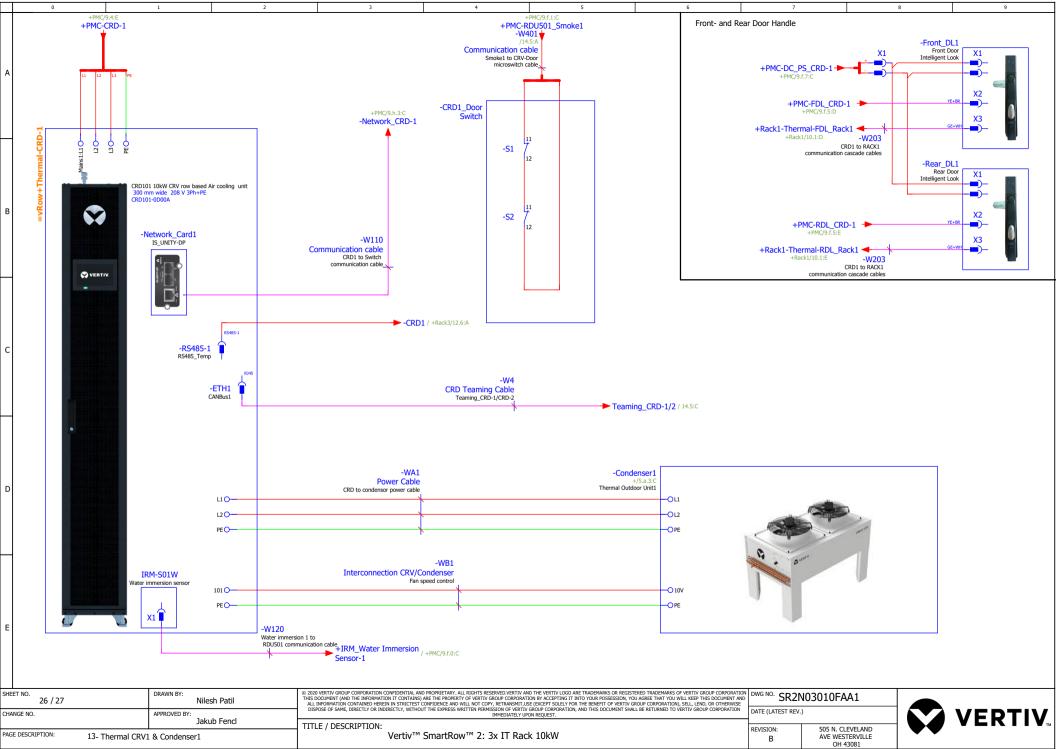


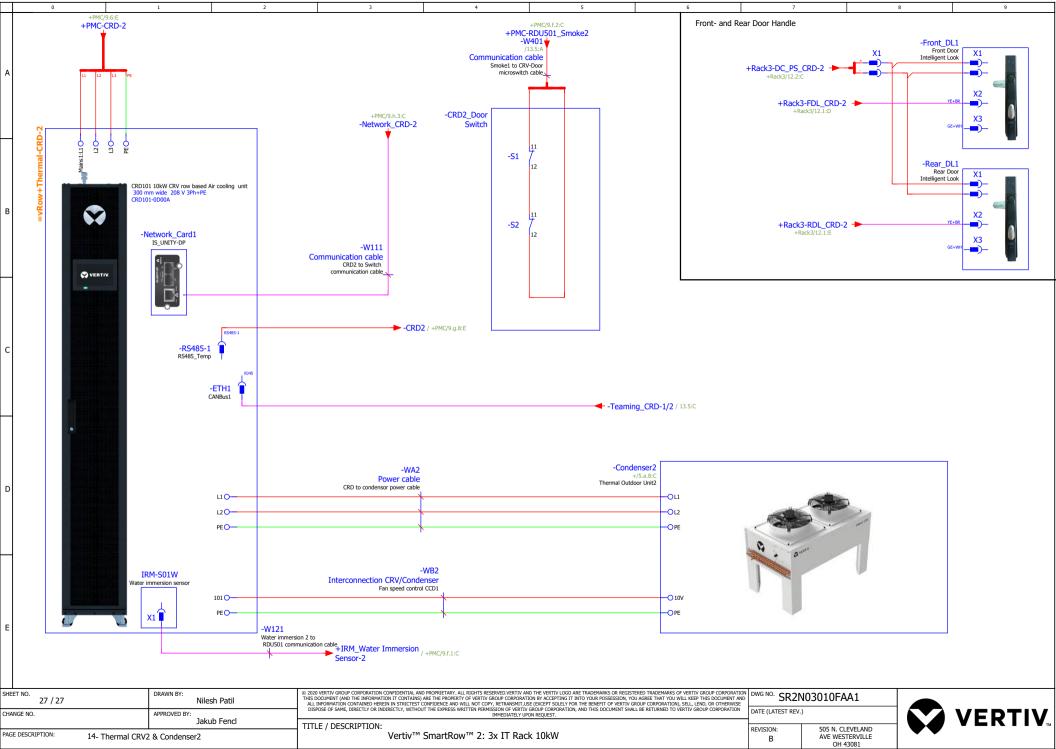


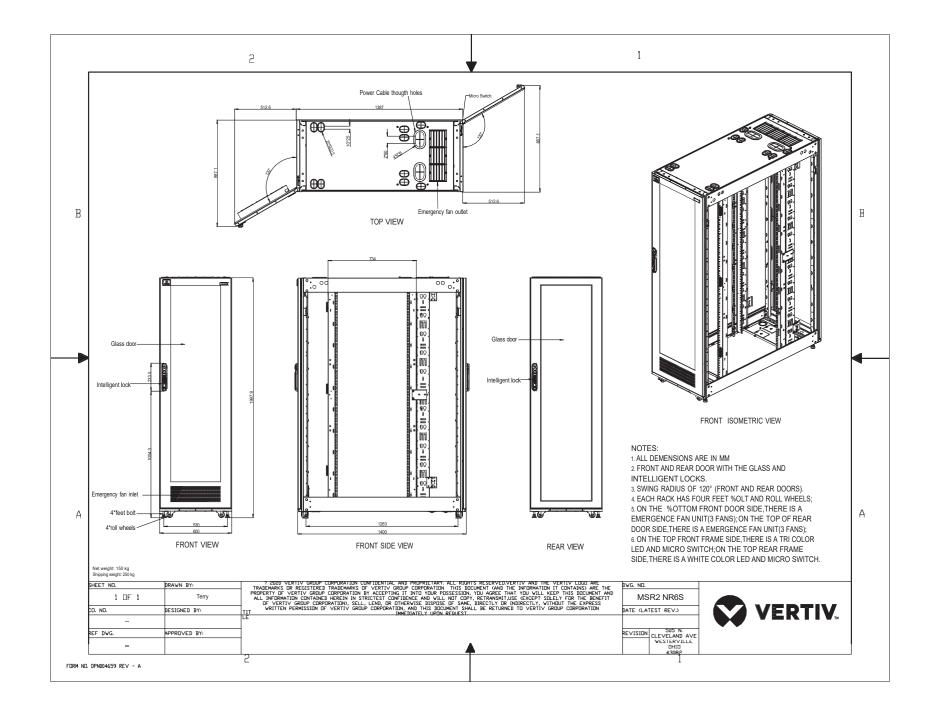


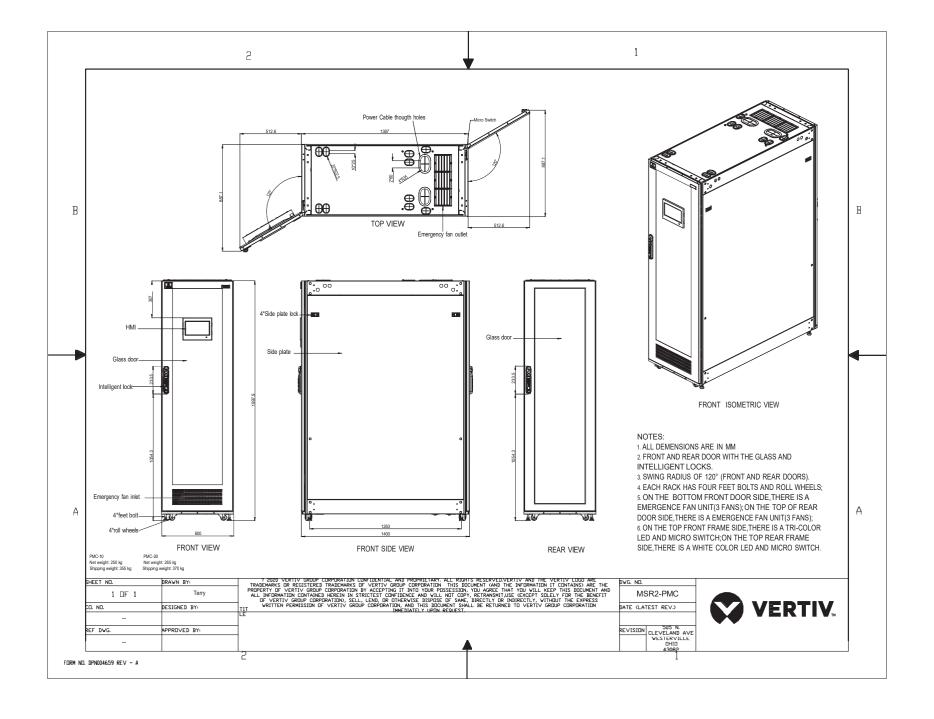


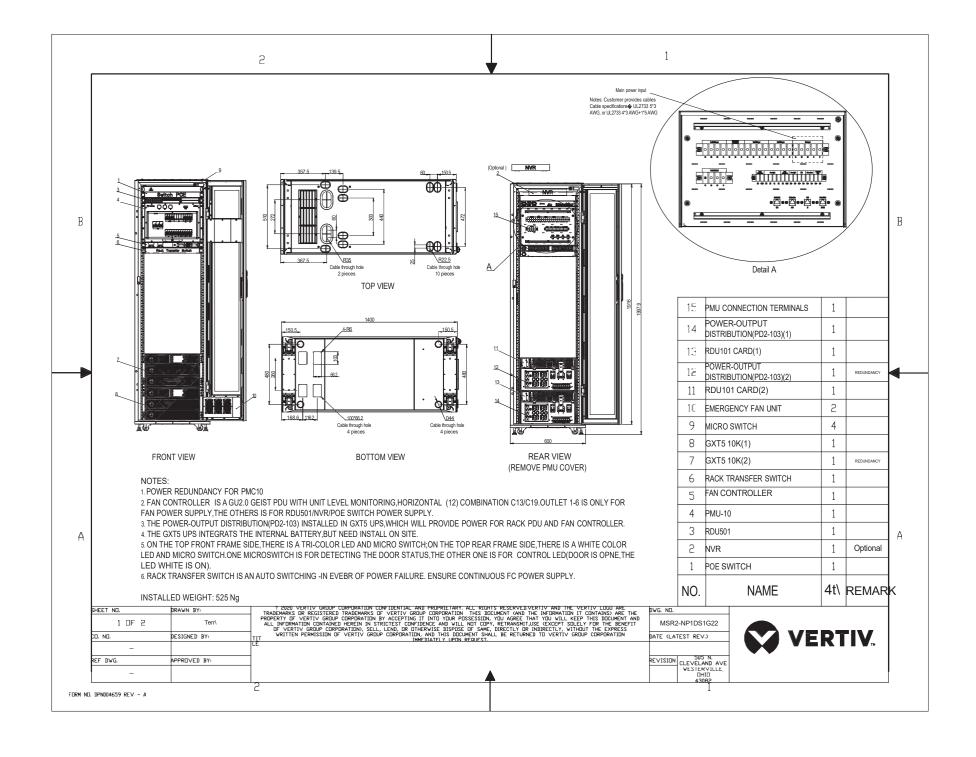


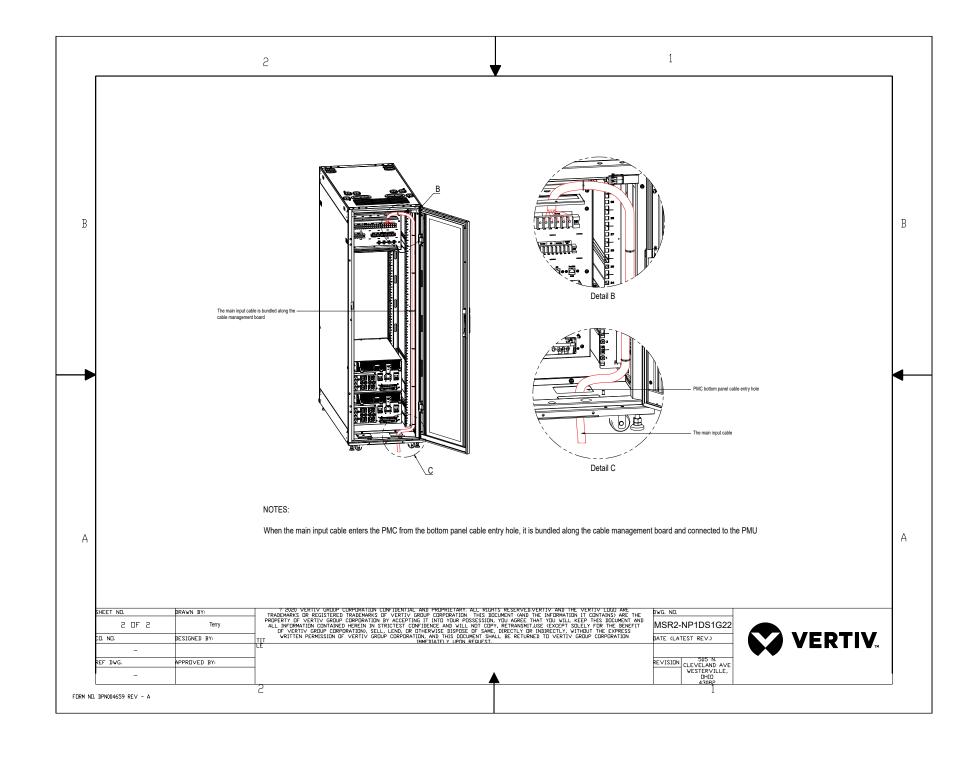


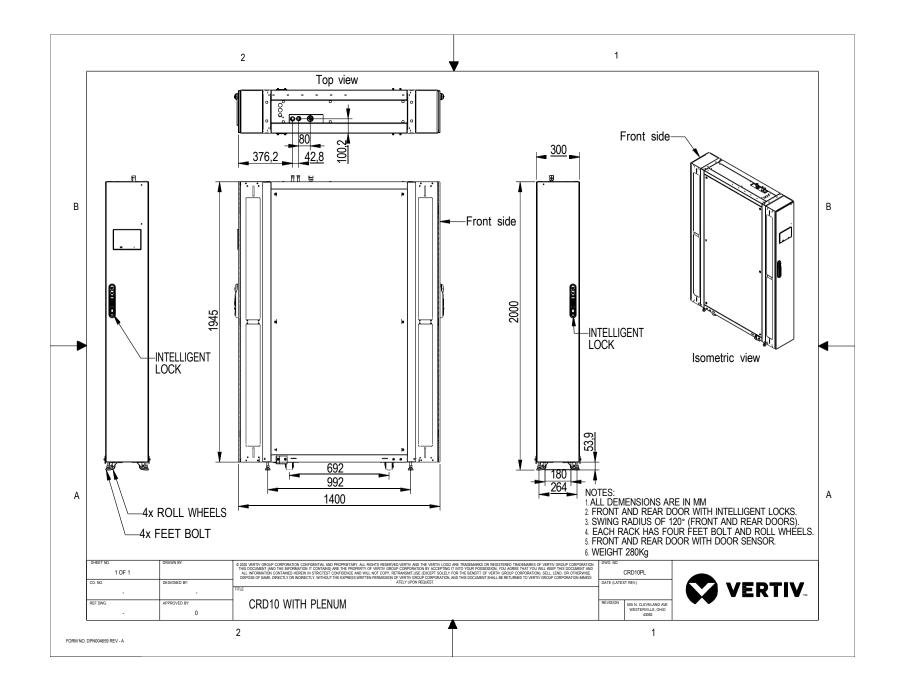


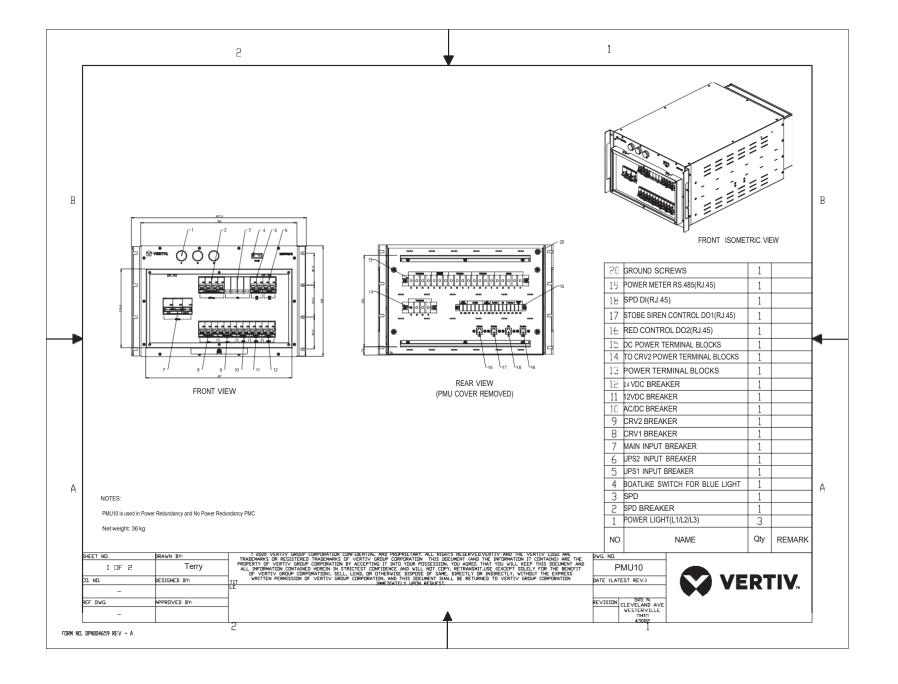


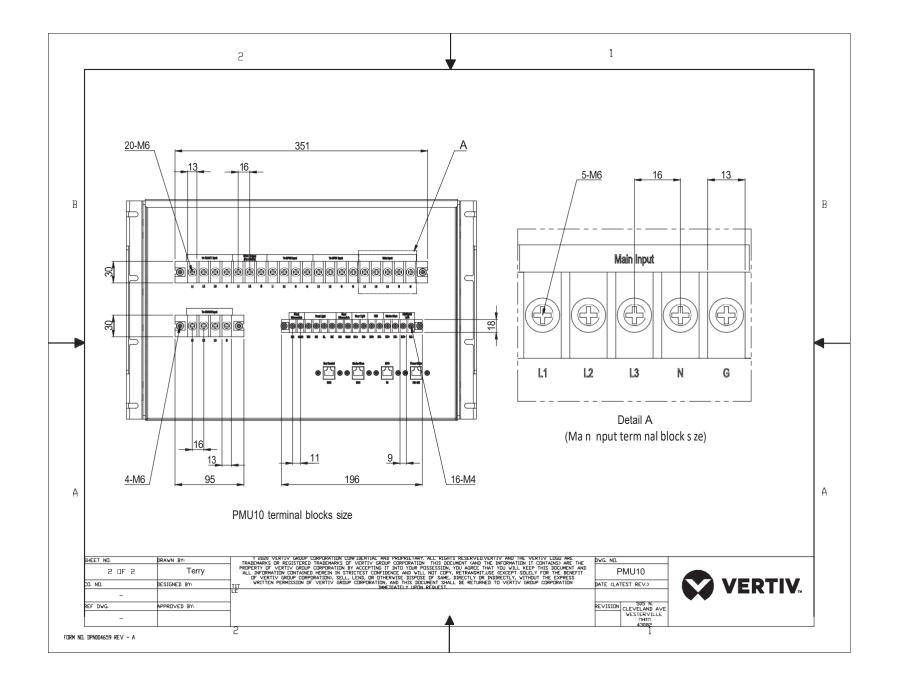


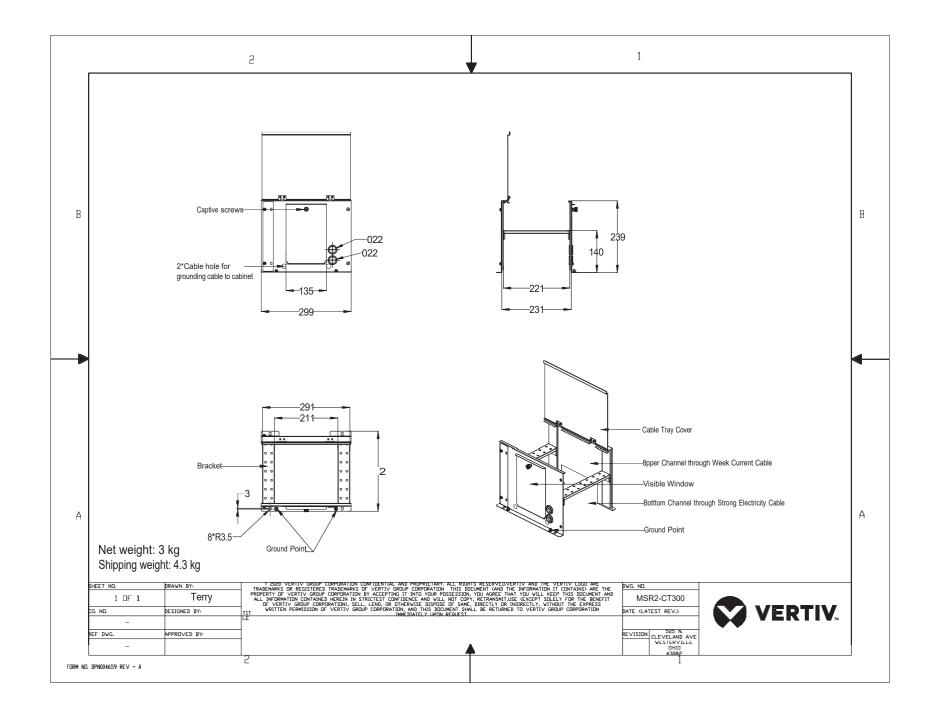


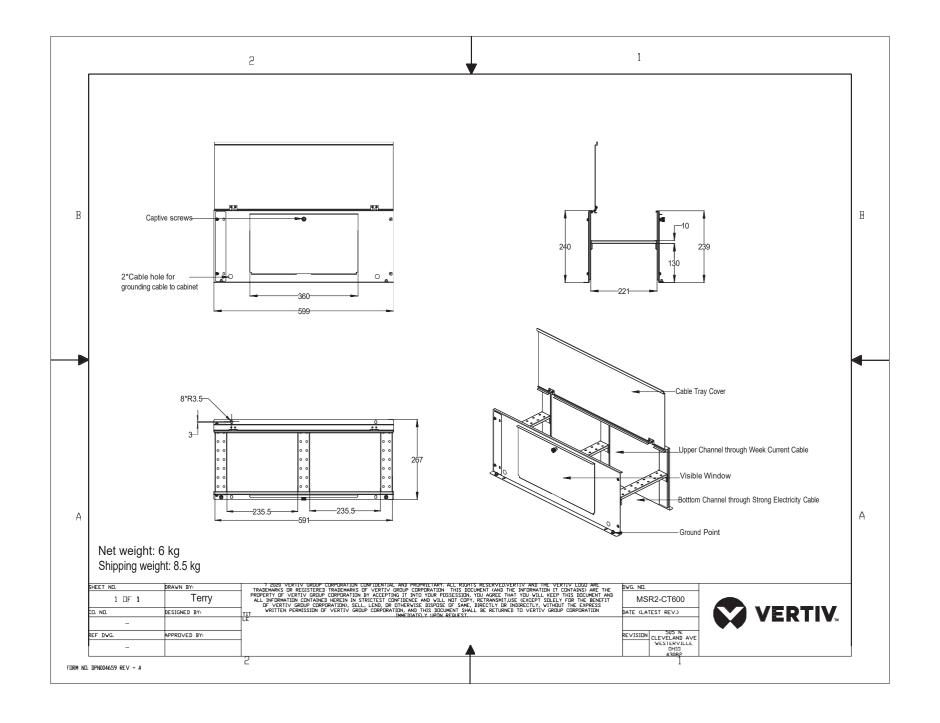














SCOPE OF WORK

SmartRow2 Assembly

SERVICE SUMMARY

Feature	Detail
On-Site Service	Site trip(s) within the 48 contiguous states. Visit(s) to be scheduled by the customer between 7 am-5 pm, Monday-Friday (excluding weekends & national holidays).
Customer Support	Includes access to the Customer Resolution Center (1-800-543-2378) and the Vertiv Customer Services Network Online Internet portal for extent of product warranty.
Consolidation	The SmartRow2 includes numerous shippable units (typically pallets or boxes) that originate from multiple factories and suppliers. Vertiv consolidates these items into a single customer shipment and reduces the likelihood of shippable units being lost at the customer site. This benefits the customer by relieving the burden of keeping track of multiple partial shipments.
Inside Delivery	Vertiv Service will move the shippable units from the delivery truck to the Staging Area. Vertiv Services will unpackage the shippable units and remove/dispose of the packaging material so that it is ready for assembly. Vertiv will verify that all material on the sales order has been received.
Project Management	Included with Consolidation and Inside Delivery. Vertiv will assign a project manager for the project. The Project Manager will supervise the Consolidation and Inside Delivery Process and communicate hardware shipment schedules with the customer.
Assembly	SmartRow2 is assembled onsite by Vertiv factory-trained and authorized technicians equipped with Vertiv Proprietary tools and software. Vertiv CEs and Vertiv Partners are the only approved OEM service providers for Vertiv products. These technicians are supervised by a Site Manager who also gathers site-specific requirements like safety and work procedures
Factory Startup	Warranty inspection and startup validates the warranty and initializes the warranty coverage period

SERVICE PERFORMED

Consolidated Shipment

Shippable units may be available at time of order or built-to-order with a lead time. Vertiv safely stores these items in-warehouse until the customer is ready to receive the SmartRow2 in a single shipment

Inside Delivery

Vertiv Services will deliver the shippable units from the delivery truck to the Staging Area. Vertiv Services will unpackage the shippable units and remove/dispose of the packaging material so that it is ready for assembly. Vertiv will verify that all material has been received.

Change order option:

There must be an appropriate loading dock with continuous, level floor from the dock to the staging area. If the shippable
units must be moved up/down stairs, the customer must provide a suitable elevator, or charges for special rigging will be
incurred. If the customer does not have an appropriate loading dock, nominal charges may/may-not apply for a lift-truck
delivery.



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Project Management

Vertiv will assign a project manager and a site manager for the project.

The Project Manager will supervise the Consolidation and Inside Delivery Process and communicate schedules with the customer.

The Site Manager will supervise the assembly, startup, warranty inspection and turn over the SmartRow2 to the customer

Site-Specific Requirements

All personnel will be available for up to two hours per week for Site Access, Safety Training and other site-specific requirements Change Order Option:

Vertiv can quote a price for additional man-hours if 2 hours per week is insufficient

Assembly

There shall be continuous, level floor between the Staging Area and the Installation Location so that heavy items can be moved via casters/pallet jacks.

Change Order Option:

• If there is not continuous level floor, the customer must provide or pay for any necessary lift/rigging equipment.

Vertiv PMC, including RDU501 SmartRow2 Controller/Display

Vertiv will position, level, and bay together the PMC as described in the submittal documents.

The customer is responsible for providing primary electrical power to the PMC.

Vertiv will program and configure the SmartRow2 RDU501 controller/display. This includes setting IP addresses so that the customer can monitor the system status remotely

Change Order Option:

 Vertiv will quote IP addressing of equipment on the customer network, but this would be done by other personnel and scheduled separately. This is outside the scope of SmartRow2 assembly.

Vertiv IT Rack(s)

Vertiv will position, level, and bay together the Vertiv IT Racks as described in the submittal documents.

Vertiv will not populate racks with customer IT gear, including blanking panels, servers, shelves, etc.

The customer must define addressing conventions (1,2,3,4, right-to-left or left-to-right) prior to start of work.

Cable Trays

Vertiv will install the SmartRow2 cable trays that are included with the SmartRow2 solution as described in the submittal documents

Liebert® CRV's, Temperature Sensors, Modbus cables, and associated Plenums

Vertiv will position and level the Liebert® CRV and attach the associated plenums to provide cooling to the SmartRow2.

Vertiv will connect the necessary temperature sensors.

The customer is responsible for piping and primary power to the CRV along with connecting CANBus cable between the CRV and heat rejection. All specific requirements (such as piping traps and proper electrical grounding) for correct product installation are detailed in the product installation manual.

After the SmartRow2 is assembled and the Liebert® CRV is piped and powered by the customer in accordance with the product installation manual, Vertiv will perform a factory warranty inspection along with the rest of the SmartRow2

Liebert® MC / CCD Condensers for Liebert® CRV's

VERTIV.

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Avocent® Chloride® Liebert® NetSure™ Trellis™

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Project Management

The customer is responsible for installing the associated heat rejection. This includes primary power, CANBus communication wire, piping, refrigerant charging, and all other tasks in the Installation Manual. Any/all penetration points in the walls/ceilings/floors for any wiring or piping are also the customer's responsibility.

Rack PDUs

Vertiv will install and connect all rack PDUs (if applicable) including GXT5 power extensions (if applicable) as described in the submittal documents

Liebert® GXT5 Single Phase UPS's

Vertiv will install and connect all Liebert® GXT5 UPS's and connect power within the PMC cabinet and output to the PDUs as described in the submittal documents.

Additionally, Vertiv will install ancillary equipment such as Maintenance bypass and PD2-103 cabling and connectors if not already preinstalled.

After the SmartRow2 is assembled and Primary Power to the SmartRow2 is provided by the customer, Vertiv will perform factory startup of all GXT5 equipment along with the rest of the SmartRow2

Switch

Vertiv will install and connect the switch within the PMC cabinet. as described in the submittal documents

Firmware Updates

Vertiv will update firmware of any/all units to the current revision level. Shippable units are sourced globally and firmware evolves as products may be in stock with prior revisions

Wiring

Vertiv will run all necessary wiring for power and communication between cabinets as part of assembly. This includes setting IP/DIP switch settings for proper communication between the device and the PMC

Accessories

The SmartRow2 is available with lights, door locks/sensors, temperature sensors that Vertiv will connect and install.

Services associated with cameras are sold separately and out-of-scope for the SmartRow2 Assembly

RDU Monitor SmartRow2 mobile application

Services associated with the RDU Monitor SmartRow2 mobile applications are quoted separately and out-of-scope for SmartRow2 assembly

ASSUMPTIONS AND CLARIFICATIONS

- Vertiv start-up validates product warranty.
- Defects or damage resulting from installation not performed by Vertiv are not covered.
- Parts and Labor coverage is in accordance with Product Warranty. If a modified warranty is purchased, terms default to that specific package.
- Any customer site visit is limited to eight (8) hours per visit. Any time beyond forty (40) hours/wk or eight (8) hrs/day or additional Startup visits will be billed separately.



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- Expenses incurred due to delays that are beyond the control of Vertiv may be billed at cost.
- Startup visit must be scheduled confirmation of proper installation (if Vertiv not involved with installation).
- This pricing excludes any load bank testing. This can also be quoted separately if required.
- Pricing excludes activities associated with 3rd party commissioning
- Pricing excludes any type of circuit breaker NEMA testing. This can also be quoted separately if required.
- Customer/Installing contractor is responsible for providing elevated access as necessary.
- Any additional requests beyond the scope of this document will be billed separately by Vertiv.
- Vertiv will not perform physical changes to the site building (such as drilling holes, etc.)

CUSTOMER RESPONSIBILITIES

In order to provide timely, accurate and thorough execution of the services described herein, Vertiv requests the following:

- Point of Contact: Provide an authorized point of contact(s), specific for the scope of work, for scheduling and coordination purposes.
- Scheduling: Make dates available for scheduling service. All visits must be requested 4 weeks in advance for assembly and 10
 days for startup/warranty-inspection of need by contacting the Vertiv Project Manager. Site must be available for 5 consecutive
 business days. Customer may choose to pay for premium time if weekend work is necessary.
- Site Access: Prior to time of scheduled work, provide site access including any customer required escort, security clearance, safety training and badging for Vertiv personnel.
- Equipment Access: Convenient access to the equipment covered by the Scope of Work. Prior to scheduled time of work, notify Vertiv personnel of any special requirements for equipment access including lifts, ladders, etc.
- Shutdown: Service may require shutdown of load to ensure electrical connection integrity.
- Notification: If for any reason the work cannot be performed during scheduled time, notify Vertiv personnel 24-hours prior to scheduled event.
- Provide Method of Procedure (MOP) requirements/ templates, and required review period(s)

TERMS AND CONDITIONS

Subject to all Terms & Conditions as noted in the Vertiv Terms & Conditions or the terms of a Master Agreement between the parties, if any, shall apply.

