Technical Specifications / Engineering Submittals
Raritan Model Number: PX3-5941V-V2   rev20250625

LINE DRAWING

FEATURES

Energy Metering	Voltage (V), Current (A), Active Power (kW), Real Power (kVA), Energy (kWh), Power Factor
Metering Accuracy	ISO/IEC 62053-21 1% (see page 3 for details)
Metering per Input Line	Yes
Metering per Branch Circuit Breaker	Yes
Metering per Output Receptacle	Yes
Remote Outlet Switching	Yes
Environmental Sensor Ready	Yes
Replaceable Controller	Yes
Compatible Sensors	Temperature, Humidity, Air Flow, Differential Pressure, Water Leak, and Contact Closure
Networking	Gigabit (10/100/1000 BaseT) Ethernet port; secondary, redundant (10/100/1000 BaseT) Ethernet port. Optional WiFi (802.11a/b/g/n)
Remote Management	HTTP(s); SSH; Telnet; RS-232 (Serial); Power IQ; SNMP version v2/v3; SMTP; JSON-RPC; Modbus over TCP
Cascading	Yes, Max 32 PDUs can be daisy chained using a USB connection and 32 PDUs using Ethernet connection
Onboard Display	Color, matrix LCD display : Voltage, current, or active power (per line, per breaker, or per receptacle / outlet); Alarms; Configuration information (name, ratings, IP / Networking information); Auto-flip orientation
Embedded Processor	ARM Cortex A5 536MHZ (Atmel A5D35A), 16MB SPI Flash, 64MB DDR2 RAM

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INPUT

Input Plug	IEC 60309 3P+E 9h 100A (3P4W), IP67
Cord Length	3 meters (9.84 feet) standard
Cord Entry	Bottom-bottom feed
Cable Type	SOOW 4C#2
Number of Power Cords	1
Maximum Input Current	100A
Nominal Input Voltage	208V 3 phase
Rated Input Voltage	208 - 240V 3 phase
Input Frequency	50/60Hz
Power Capacity	28.8kVA at 208V, 33.3kVA at 240V

OUTPUT

Nominal Output Voltage	208V
Rated Output Voltage	208 - 240V
Receptacles (Output Connections)	(18) IEC320 C19, 16A
Securelock Support	Yes
Cord Retention	Yes
Overload Protection	(9) LEGBX66-20, 5KAIC

PHYSICAL

Color	Black powder coat (custom colors available)
Unit Dimensions (WxDxH)	2.8" x 3.1" x 68.9" ; 70mm x 80mm x 1750mm
Unit Weight	16.55 kg
Shipping Weight	19.95 kg
Shipping Dimensions (WxDxH)	11.22" x 5.31" x 81.89" ; 285mm x 135mm x 2080mm
Mounting	Tool-less button mount

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ENVIRONMENTAL

Operating Temperature	60°C
Operating Relative Humidity	85%
Operating Elevation	0-6000ft

CONFORMANCE

Regulatory Approvals	UL Listed, Canada ICES-003, Part 15 Class A of the FCC rules, RoHS compliant
Warranty	Standard 2 years manufacturer warranty

ACCURACY

	Input Measurement	Output Measurement
LCD & GUI Current	±1% at 0.1 A resolution	±1% at 0.1 A resolution
Voltage	±1% at 0.1 V resolution	±1% at 0.1 V resolution
Active Power	±1% at 1 W resolution	±1% at 1 W resolution
Apparent Power	±1% at 1 VA resolution	±1% at 1 VA resolution
Power Factor	±1% at 0.1 resolution	±1% at 0.1 resolution
Active Energy	±1% at 0.1 kWh resolution	±1% at 0.1 kWh resolution
Branch Measurement		
Current	±1% at 0.1 A resolution	

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CONTROL PANEL

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ELECTRICAL (ONE LINE) DIAGRAM
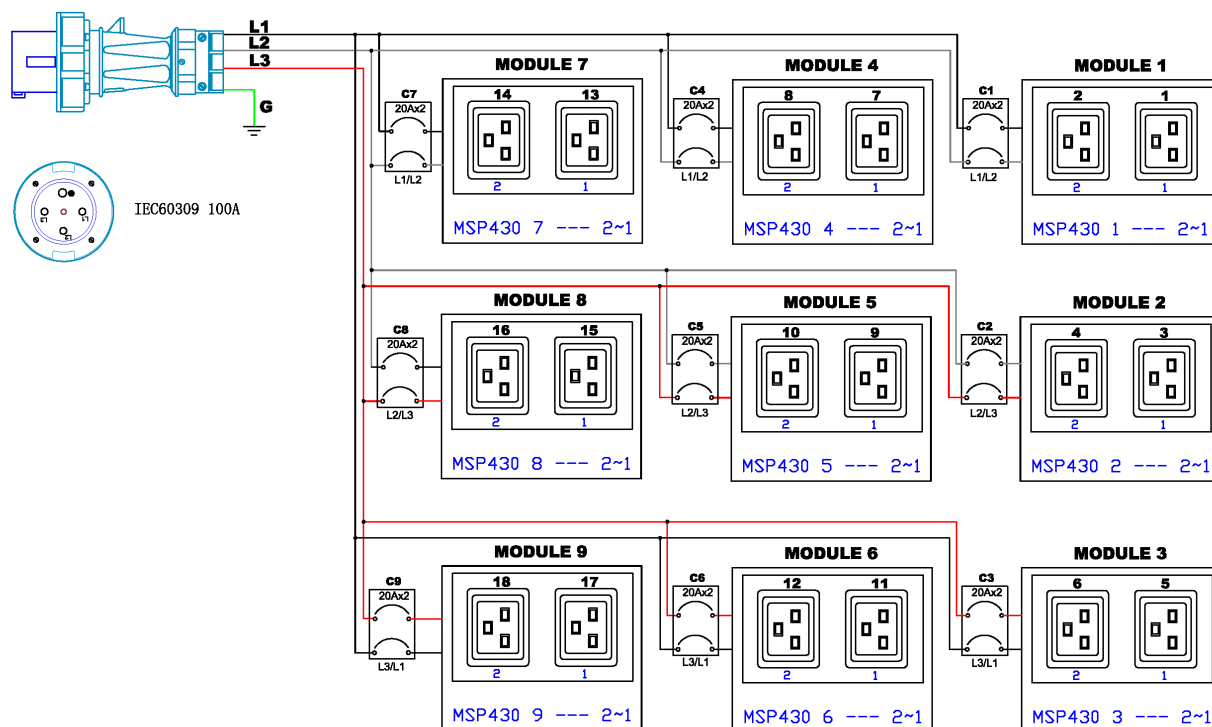
L1
L2
L3
G

IEC60309 100A

MODULE 7	MODULE 4	MODULE 1
C7 20Ax2	C4 20Ax2	C1 20Ax2
14 13	8 7	2 1
L1/L2	L1/L2	L1/L2
2 1	2 1	2 1
MSP430 7 --- 2~1	MSP430 4 --- 2~1	MSP430 1 --- 2~1

MODULE 8	MODULE 5	MODULE 2
C8 20Ax2	C5 20Ax2	C2 20Ax2
16 15	10 9	4 3
L2/L3	L2/L3	L2/L3
2 1	2 1	2 1
MSP430 8 --- 2~1	MSP430 5 --- 2~1	MSP430 2 --- 2~1

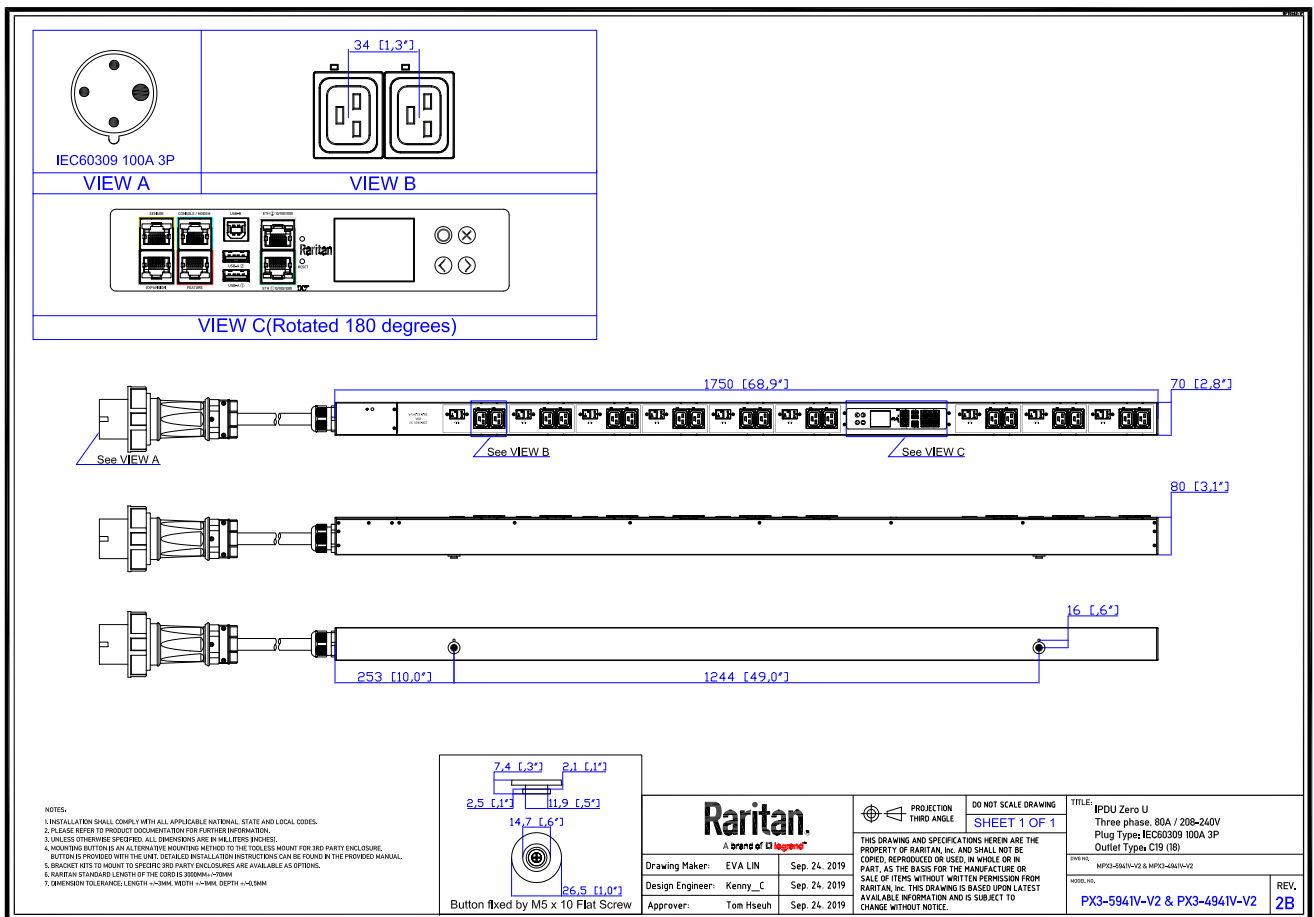| MODULE 9	MODULE 6	MODULE 3
C9 20Ax2	C6 20Ax2	C3 20Ax2
18 17	12 11	6 5
L3/L1	L3/L1	L3/L1
2 1	2 1	2 1
MSP430 9 --- 2~1	MSP430 6 --- 2~1	MSP430 3 --- 2~1

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MECHANICAL DIAGRAM

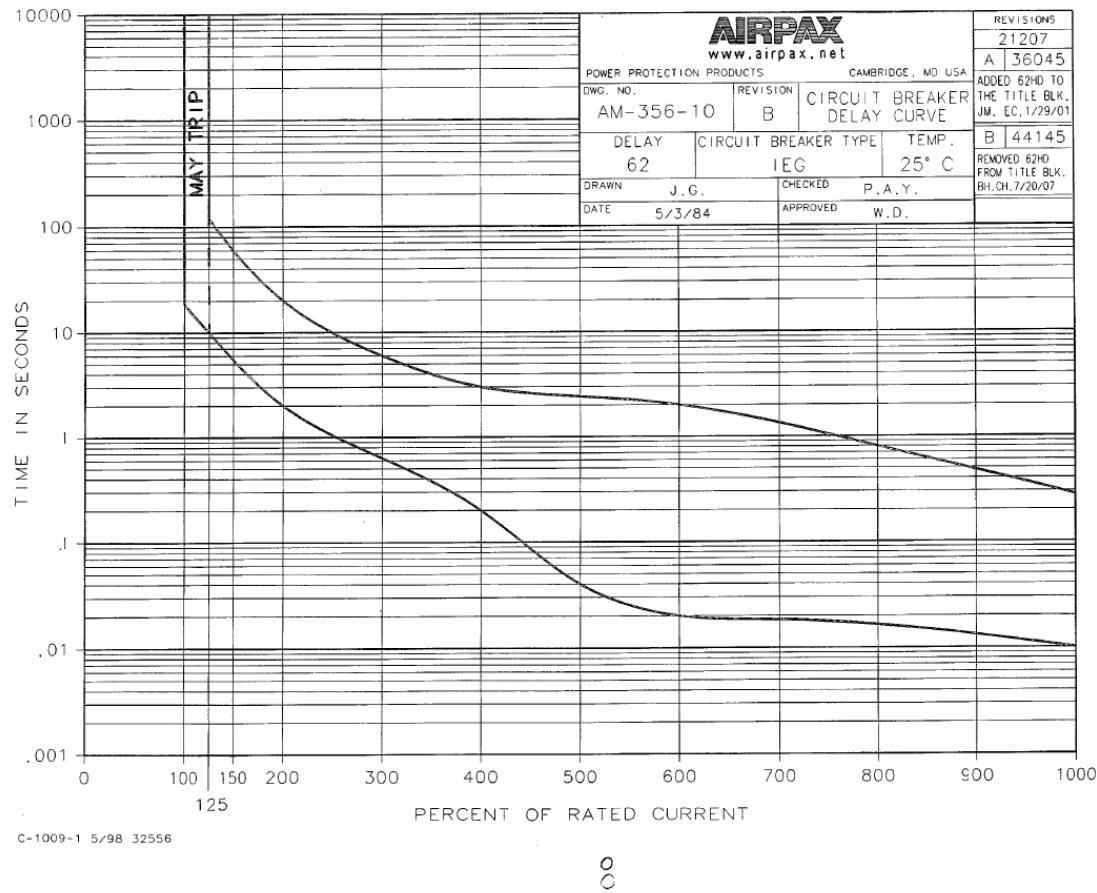IEC60309 100A 3P
VIEW A

VIEW B

VIEW C(Rotated 180 degrees)

34 [1,3"]

1750 [68,9"]   70 [2,8"]

See VIEW A   See VIEW B   See VIEW C

80 [3,1"]

16 [,6"]

253 [10,0"]   1244 [49,0"]

7,4 [,3"]   2,1 [,1"]
2,5 [,1"]   11,9 [,5"]
14,7 [,6"]

26,5 [1,0"]
Button fixed by M5 x 10 Flat Screw

NOTES:
1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. PLEASE REFER TO PRODUCT DOCUMENTATION FOR FURTHER INFORMATION.
3. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN MILLIMETERS [INCHES].
4. MOUNTING BUTTON IS AN ALTERNATIVE MOUNTING METHOD TO THE TOOLLESS MOUNT FOR 3RD PARTY ENCLOSURE. BUTTON IS PROVIDED WITH THE UNIT. DETAILED INSTALLATION INSTRUCTIONS CAN BE FOUND IN THE PROVIDED MANUAL.
5. BRACKET KITS TO MOUNT TO SPECIFIC 3RD PARTY ENCLOSURES ARE AVAILABLE AS OPTIONS.
6. RARITAN STANDARD LENGTH OF THE CORD IS 3000MM+/−70MM
7. DIMENSION TOLERANCE: LENGTH +/−3MM, WIDTH +/−1MM, DEPTH +/−0,5MM

| | PROJECTION THIRD ANGLE | DO NOT SCALE DRAWING | TITLE: IPDU Zero U |
| | | SHEET 1 OF 1 | Three phase, 80A / 208–240V |

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Plug Type: IEC60309 100A 3P
Outlet Type: C19 (18)

DWG NO. MPX3-5941V-V2 & MPX3-4941V-V2

Drawing Maker:	EVA LIN	Sep. 24, 2019
Design Engineer:	Kenny__C	Sep. 24, 2019
Approver:	Tom Hseuh	Sep. 24, 2019

MODEL NO. PX3-5941V-V2 & PX3-4941V-V2   REV. 2B

TRIP CURVE

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