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ZT 210 Series

STD 32® Card Cages with Removable Power Supply Modules

Rugged card cages feature high-performance STD 32 backplanes for 8-, 16-, and 32-bit data transfers, and removable power supply modules

The ZT 210 Series of card cages for the STD 32 Bus offer the highest performance level available for STD 32 and STD Bus systems. These card cages are designed for rugged environments where shock and vibration, temperature extremes, and electrical noise are present. These card cages are available in 9-, 12-, 15-, 18-, and 21-slot widths using high-performance STD 32 backplanes supporting 8-, 16- and 32-bit data transfers. The backplanes utilize multilayer construction, controlled layer separation, and trace sizing for noise immunity and optimum signal integrity. The card cages can be ordered in table, rack or wall mount configurations and with optional forced-air cooling.

The removable power supply modules allow quick replacement of the power supply for servicing or adapting the system to changing power requirements. Power supply modules are available in AC and DC input configurations offering various input voltage and wattage ratings. Front panel access is provided on the modules for AC or DC input power, +5 and +12VDC output voltages, LED voltage indicators, and an on/off switch.

Both the card cages and power supply modules feature rugged steel construction with a durable black powder coat finish to minimize corrosion. ZT 210 Series card cages include a card retainer bar for operation in shock and vibration environments.



- Removable AC and DC power supply modules
- 9-, 12-, 15-, 18-, and 21-slot versions, 0.625" centers
- 3-U EURO cage format; height: 5.22" [13.3cm]
- Five-layer STD 32 backplane
- 8-, 16-, and 32-bit data transfers
- STD 32- and STD Bus-compatible
- Steel powder coated construction
- Table, wall, and rack mount versions available
- Forced-air cooling optional
- Integral card restraint
- DC input range: 10 to 72VDC
- AC input range: 90 to 264VAC, 47 to 440 Hz
- Front panel access to +5, +12VDC and GND
- Front panel power and reset switches

ZIATECH CORPORATION

Functional Considerations

Modularity

The ZT 210 Series of card cages allows quick power supply replacement with a selection of removable power supply modules in various AC and DC configurations. The power supply modules slide into the card cage in the same manner as an STD card. Retention screws and a sturdy backplane DIN connector lock the power supply module in place. Power input, +5 and +12 DC output voltages, +5, +12, and -12VDC power indicators, push-button reset, and a power switch are all located on the front of the power supply module for ease of access. Large DIN 41612 connectors provide up to 15 amps of current capability per pin on the connection between the power supply modules and the backplane.

Mechanical

ZT 210 Series card cages are available in 9-, 12-, 15-, 18-, and 21-slot widths on 0.625-inch (15.88mm) centers and feature a power supply bay location on the right side of the cage for a removable power supply. The height of the ZT 210 Series of card cages conforms to the European 3U standard (5.22-inches, 132.54 mm). Modular power supplies slide in and out of the power supply bay just like an STD card. Power supplies are restrained with captive thumb screws on the front of the cage while the STD cards are restrained with a locking bar. A stainless steel handle on the power supply modules assists removal from the card cage. The powder coated steel construction of the card cage and power supply modules provides corrosion resistance and performance under shock and vibration conditions.

In addition to the various slot widths available, the ZT 210 card cages can be ordered in table mount, wall mount and rack mount configurations. Table mounting allows the card cage to rest on a flat horizontal surface with rubber feet, or be firmly attached with screws. Wall mounting provides brackets on the back side of the card cage for mounting to a vertical wall with screws. The rack mount option provides brackets for 19-inch RETMA racks but is only available for 15-, 18-, and 21-slot models. The forced-air cooling option adds bottom mounted fans and is available for all slot widths. Forced-air cooling is recommended for high-speed 486 processors.

All ZT 210 Series card cages include a power supply bay for the removable power supply modules. Users who prefer card cages without integral power supplies should order from the ZT 200 Series of card cages. Please refer to the ZT 200 Series data sheet for more information.

Electrical

All ZT 210 Series models include a Ziatech STD 32 backplane with STD 32 connectors. This backplane also includes a heavy duty DIN connector (DIN 41612), for making the modular connection between the backplane and removable power supply module. This connector provides large pins capable of 15 amps of current. The ground connections are first made mechanically on this connector when a power supply module is inserted. Backplanes used in ZT 210 Series card cages use separate power and ground planes to maximize power distribution without impacting signal plane impedance. The space between adjacent signal traces has also been maximized to minimize crosstalk between signals. For STD 32 applications that require the highest level of performance, the leftmost slot is designated "Slot X" for bus arbitration, DMA capability, and additional interrupt support in multiprocessing applications. The remaining slots provide standard address and data lines for any STD 32 or STD Bus card.

Both AC and DC power supply modules are available. AC modules provide an IEC 320 power receptacle on the front panel for AC input power. This receptacle includes a retaining feature that enables the cord to be firmly clamped in place. DC power supply modules are available in various DC input ranges, making the ZT 210 Series ideal for a wide range of applications where specific DC voltage levels are required. DC power supply modules provide pluggable screw terminals on the front panel for DC power input. A four-position connector is provided on both AC and DC power supply modules for two output voltages (+5 and +12VDC) and their grounds. This is useful for powering other circuits or peripherals in embedded systems such as flat panel displays or panel mounted disk drives. Three LED power indicators are also provided on the front panel for monitoring the +5, +12, and -12VDC output voltages. A toggle on/off switch for system power and a push-button reset switch is also found on the front panel.

Environmental

The ZT 210 Series card cages are designed to withstand the shock and vibration levels found in most industrial environments. Both card cages and power supply modules are tested to meet IEEE specification P1156 for shock and vibration.

All card cage models of the ZT 210 Series can operate in the extended temperature range of -40° to +85° C. Individual power supply modules have their own operating temperature ratings specified in the tables that follow. Individual STD or STD 32 cards also have their own operating temperature specifications. Ziatech offers "CT" (-40° to +85° C) and "LT" (-40° to +70° C) cards for extended temperature operation. The forced-air cooling option on ZT 210 card cages may be necessary for applications using 486 processor cards to keep the processor case temperature within its specified operating range. Refer to the operating manual of the processor card for air flow requirements.

Specifications (Card cages)

Electrical

- Compatible with ZT P100 Series AC Power Supply Modules and ZT P200 Series DC Power Supply Modules using DIN 41612 connector.

Mechanical

- Physical Dimensions (see attached mechanical drawings)
- Backplane Connectors
  - P1: Modular power supply connector: 15-pin female DIN 41612 (EPT #114-40080) rated at the following:
    - 15A maximum current per pin
    - 500 insertions minimum (DIN Class I)
  - Px: Dual 136-pin STD 32 card-edge connectors rated at the following:
    - 10A maximum current per card (2A per pin)
    - 30 milliohms maximum contact resistance
    - 2 pF/slot without cards at 1 MHz 200 insertions minimum
- Forced-air cooling option provides 300 feet per minute of airflow over the cards within card cage.

Environmental (ZT 210 Series Card Cage Models)	
Operating Temperature	-40° to +85° Celsius
Storage Temperature	-55° to +125° Celsius
Non-Condensing Relative Humidity	5% to 95% at 40° Celsius
Non-Operating Shock *	30g for 6ms
Operating Shock *	15g for 11ms
Non-Operating Vibration *	5 to 300 Hz at 0.35mm (5g)
Operating Vibration *	5 to 300 Hz at 0.35mm (5g)

* Meets or exceeds IEEE Specification P1156

Specifications (Modular Power Supplies)

ZT P100 Series (AC Power Supply Modules)

Electrical

- Compatible with ZT 210 Series card cages
- Automatic selecting of low (90 to 132VAC) or high (175 to 265VAC) input range
- 75% efficiency
- AC input line fuse protected, internally located
- Voltage indicator LEDs for +5, +12, and -12VDC output status

*ZT P101 (75W AC Power Supply Module) **			
	Min.	*Typ.*	*Max.*
Total Continuous Output Power	0W		75W
Peak Power Output (60 seconds)			110W
AC Input Voltage	90VAC		265VAC
AC Input Frequency	47Hz		440Hz
+5VDC Output Voltage	4.75V	5.00V	5.25V
+12VDC Output Voltage	11.40V	12.00V	12.60V
-12VDC Output Voltage	-12.60V	-12.00V	-11.40V
+5VDC Output Current	0A		8.0A
+12VDC Output Current **	0.5A		3.0A
-12VDC Output Current	0A		1.0A

* Total maximum DC output power not to exceed 75W.
** If +12V at 3A is used, maximum +5V current is 5A.

*ZT P102 (150W AC Power Supply Module) **			
	Min.	*Typ.*	*Max.*
Total Continuous Output Power	0W		150W
Peak Power Output (60 seconds)			176W
AC Input Voltage (low range)	90VAC	110VAC	132VAC
AC Input Voltage (high range)	180VAC	220VAC	264VAC
AC Input Frequency Range	47Hz		63Hz
+5VDC Output Voltage	4.75V	5.00V	5.25V
+12VDC Output Voltage	11.40V	12.00V	12.60V
-12VDC Output Voltage	-12.60V	-12.00V	-11.40V
+5VDC Output Current	0A		15.0A
+12VDC Output Current	0A		5.0A
-12VDC Output Current	0A		1.0A

* Total maximum DC output power not to exceed 150W.

Mechanical

- Physical dimensions (see attached mechanical drawings)
- Connectors
  - P1: Power input (AC power supplies): IEC 320 male connector
  - P2: DC output: four position AMP MATE-N-LOK #770827 mating connector (AMP MATE-N-LOK #1-480426-0)
  - P3: Backplane interface (H15 male DIN 41612 meets or exceeds IEEE specification P1156)

Environmental (ZT P100 Series AC Power Supply Modules)	
Operating Temperature	0° to 65° Celsius
Storage Temperature	-40° to +85° Celsius
Non-Condensing Relative Humidity	5% to 95% at 40° Celsius
Non-Operating Shock *	30g for 6ms
Operating Shock *	15g for 11ms
Non-Operating Vibration *	5 to 300 Hz at 0.35mm (5g)
Operating Vibration *	5 to 300 Hz at 0.35mm (5g)

* Meets or exceeds IEEE Specification P1156

DC Power Supply Modules

Electrical

- All DC modules provide:
  - reverse input voltage protection
  - short circuit protection
- 80% efficiency
- Voltage indicator LEDs for +5, +12, and -12VDC output status

ZT P201 (10 to 20VDC Input, Power Supply Module)			
	Min.	Typ.	Max.
Total Continuous Output Power	0W		55W
DC Input Voltage	10VDC		20VDC
Input Current (full load)			5.7A
+5VDC Output Voltage	4.75V	5.00V	5.25V
+12VDC Output Voltage	11.40V	12.00V	12.60V
-12VDC Output Voltage	-12.60V	-12.00V	-11.40V
+5VDC Output Current	0A		5.00A
+12VDC Output Current	0A		1.25A
-12VDC Output Current	0A		1.25A

ZT P202 (18 to 36VDC Input, Power Supply Module)			
	Min.	Typ.	Max.
Total Continuous Output Power	0W		75W
DC Input Voltage	18VDC		36VDC
Input Current (full load)			3.86A
+5VDC Output Voltage	4.75V	5.00V	5.25V
+12VDC Output Voltage	11.40V	12.00V	12.60V
-12VDC Output Voltage	-12.60V	-12.00V	-11.40V
+5VDC Output Current	0A		7.50A
+12VDC Output Current	0A		1.56A
-12VDC Output Current	0A		1.56A

ZT P203 (36 to 72VDC Input, Power Supply Module)			
	Min.	Typ.	Max.
Total Continuous Output Power	0W		75W
DC Input Voltage	36VDC		72VDC
Input Current (full load)			1.90A
+5VDC Output Voltage	4.75V	5.00V	5.25V
+12VDC Output Voltage	11.40V	12.00V	12.60V
-12VDC Output Voltage	-12.60V	-12.00V	-11.40V
+5VDC Output Current	0A		7.50A
+12VDC Output Current	0A		1.56A
-12VDC Output Current	0A		1.56A

Mechanical

- Physical dimensions (see attached mechanical drawings)
- Connectors
  - P1: Power input: Three position pluggable screw terminal with screw fasteners. Mating connector: (Phoenix #1777992)
  - P2: DC output: four-position AMP MATE-N-LOK #770827 mating connector: AMP MATE-N-LOK #1-480426-0
  - P3: Backplane interface: H15 male DIN 41612

Environmental (ZT P200 Series DC Power Supplies)	
Operating Temperature	-20° to +80° Celsius
Storage Temperature	-40° to +125° Celsius
Non-Condensing Relative Humidity	5% to 95% at 40° Celsius
Non-Operating Shock *	30g for 6ms
Operating Shock *	15g for 11ms
Non-Operating Vibration *	5 to 300 Hz at 0.35mm (5g)
Operating Vibration *	5 to 300 Hz at 0.35mm (5g)

* Meets or exceeds IEEE specification P1156

Ordering Information

Order ZT 210 Series card cages from the card cage ordering guide below. Removable AC or DC power supply modules are separately as accessories.

Base Part Number:
ZT 210 - 09TF0

Card Slot Options (including Slot X):

09	Nine slots
12	Twelve slots
15	Fifteen slots
18	Eighteen slots
21	Twenty-one slots

Mounting Options:

T	Table mount
W	Wall mount
R	Rack mount (only available with 15-, 18-, and 21-slot models)

Fan Options:

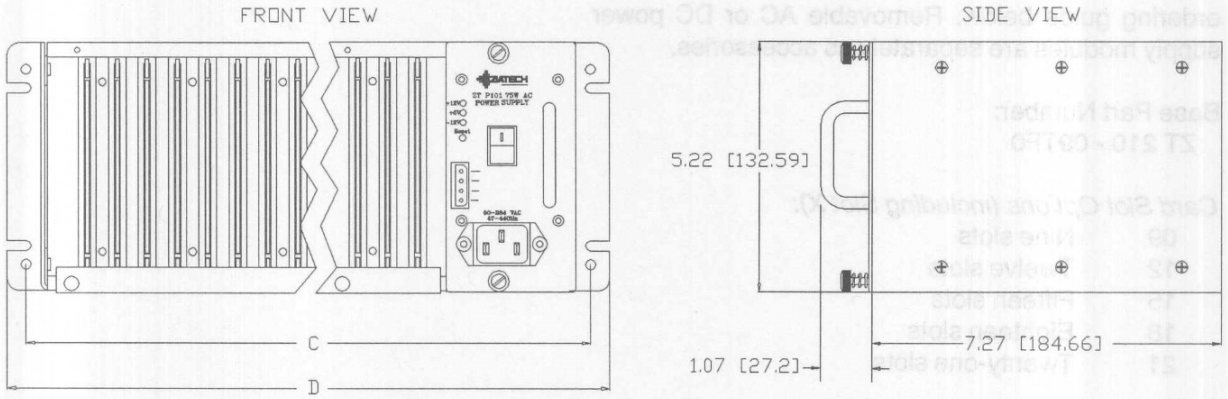
F0	No fans (convection cooling only)
F1	Bottom mounted fan units included

Power Supply Accessories:

ZT P101	75 watt AC Power Supply Module with AC power cord and locking bale
ZT P102	150 watt AC Power Supply Module with AC power cord and locking bale
ZT P201	10 to 20VDC Power Supply Module with pluggable screw terminals
ZT P202	18 to 36VDC Power Supply Module with pluggable screw terminals
ZT P203	36 to 72VDC Power Supply Module with pluggable screw terminals

All products are shipped FOB San Luis Obispo, CA, USA. OEM discounts are available for quantity purchases. Contact Ziatech for additional information.

Warranty – Five years with an optional five-year extension. Two-year warranty on fans. See the full warranty statement in the *Technical Data Book* appendix.



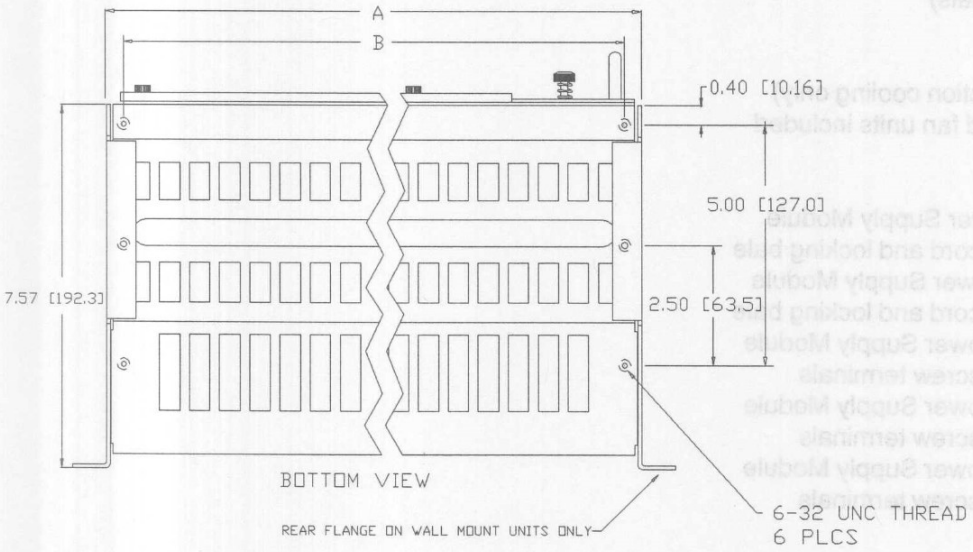
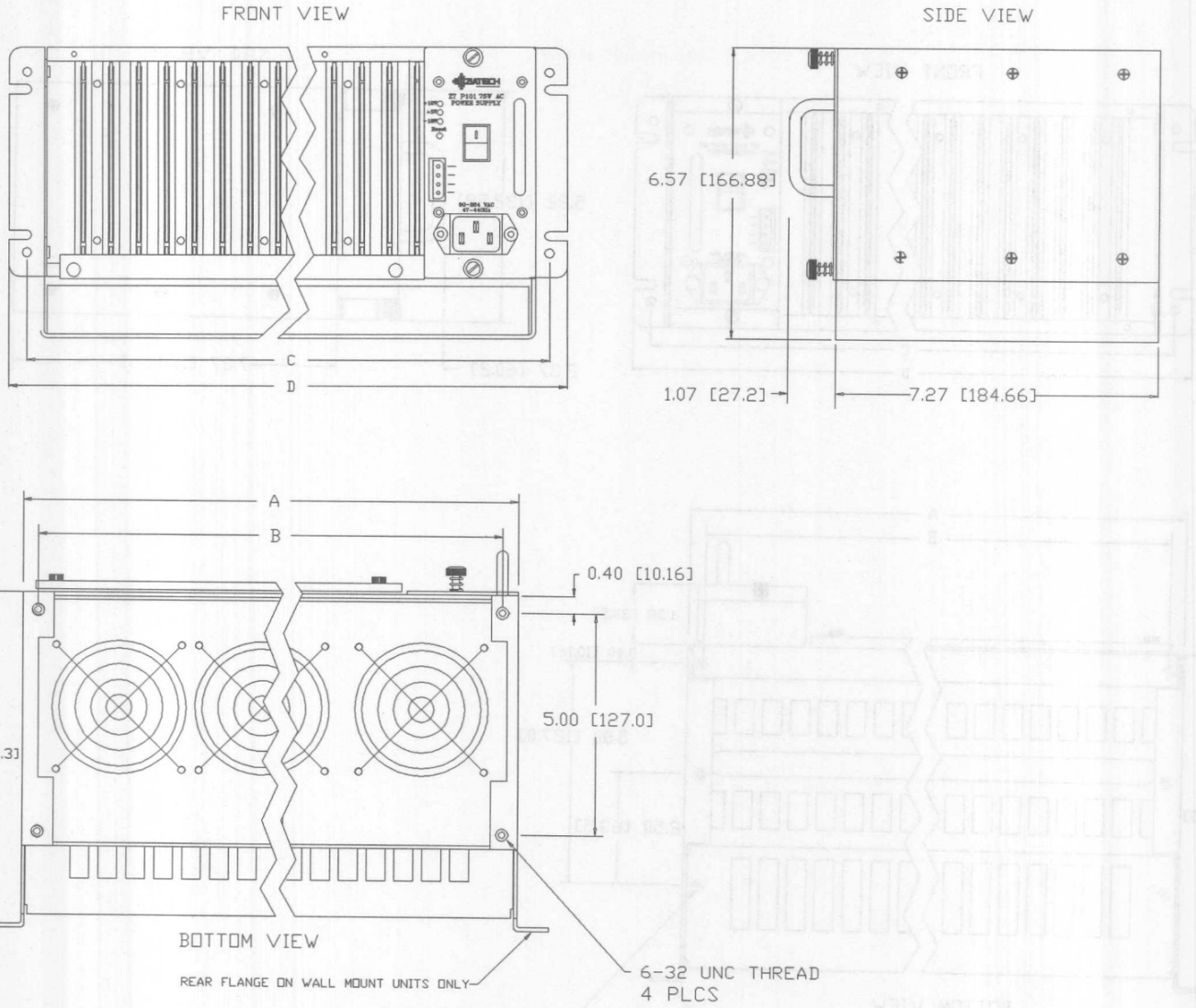


TABLE AND WALL MOUNT VERSIONS

WITH P101 OR P200 SERIES POWER SUPPLY, NO FANS

PART NUMBER	TABLE MOUNT		WALL MOUNT	
	A	B	C	D
ZT 210-09	8.88 [225.6]	8.17 [207.5]	9.50 [241.3]	10.30 [261.6]
ZT 210-12	10.76 [273.3]	10.05 [255.3]	11.38 [289.1]	12.18 [309.4]
ZT 210-15	12.63 [320.8]	11.92 [302.8]	13.25 [336.6]	14.04 [356.6]
ZT 210-18	14.50 [368.3]	13.79 [350.3]	15.12 [384.1]	15.91 [404.1]
ZT 210-21	16.39 [416.3]	15.67 [398.0]	17.01 [432.1]	17.80 [452.1]

inches [millimeters]



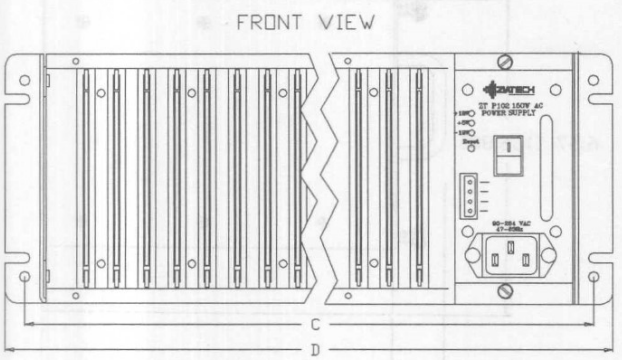
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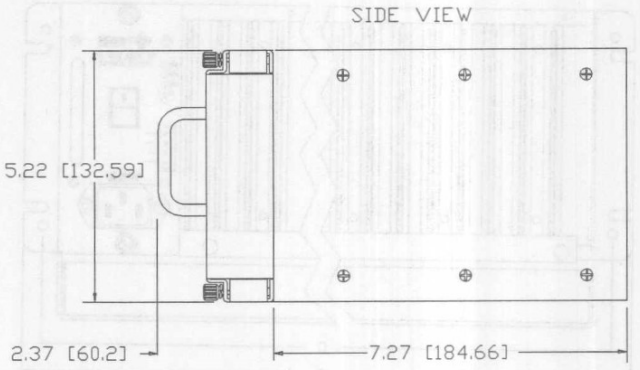
TABLE AND WALL MOUNT VERSIONS

WITH P101 OR P200 SERIES POWER SUPPLY, WITH FANS

PART NUMBER	TABLE MOUNT		WALL MOUNT	
	A	B	C	D
ZT 210-09	8.88 [225.6]	8.17 [207.5]	9.50 [241.3]	10.30 [261.6]
ZT 210-12	10.76 [273.3]	10.05 [255.3]	11.38 [289.1]	12.18 [309.4]
ZT 210-15	12.63 [320.8]	11.92 [302.8]	13.25 [336.6]	14.04 [356.6]
ZT 210-18	14.50 [368.3]	13.79 [350.3]	15.12 [384.1]	15.91 [404.1]
ZT 210-21	16.39 [416.3]	15.67 [398.0]	17.01 [432.1]	17.80 [452.1]

inches [millimeters]





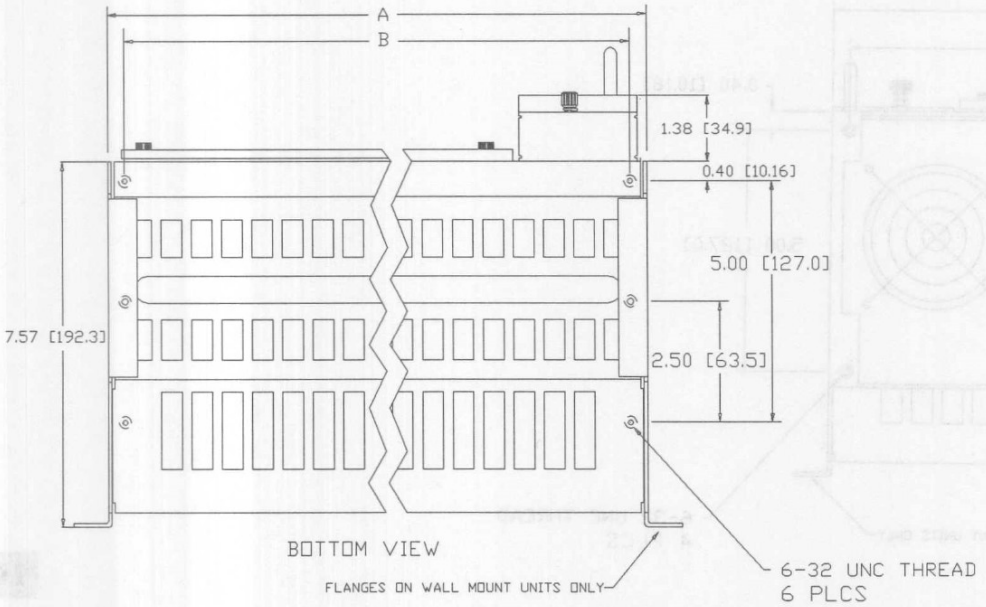
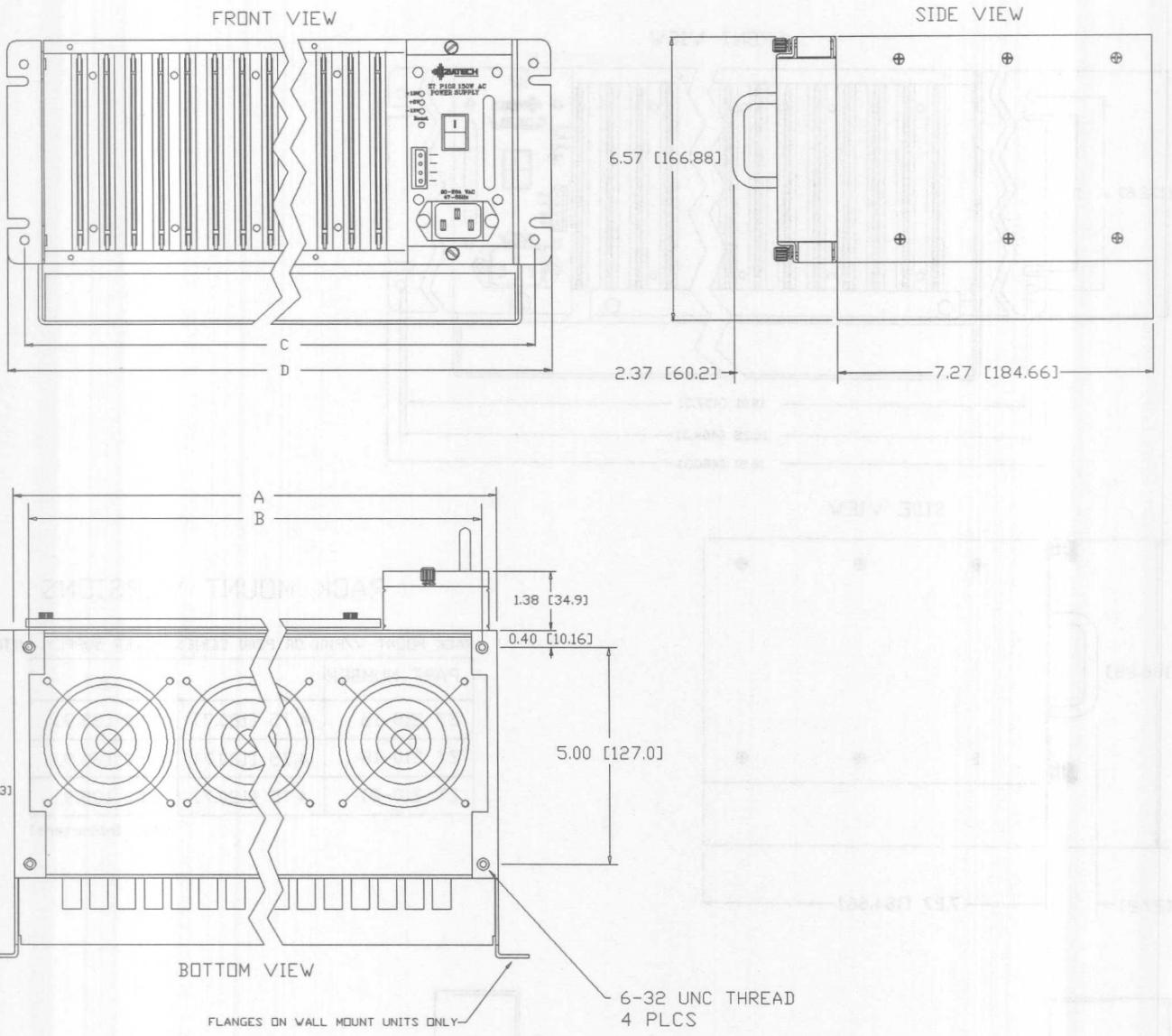


TABLE AND WALL MOUNT VERSIONS

WITH P102 POWER SUPPLY, NO FANS

PART NUMBER	TABLE MOUNT		WALL MOUNT	
	A	B	C	D
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ZT 210-12	10.76 [273.3]	10.05 [255.3]	11.38 [289.1]	12.18 [309.4]
ZT 210-15	12.63 [320.8]	11.92 [302.8]	13.25 [336.6]	14.04 [356.6]
ZT 210-18	14.50 [368.3]	13.79 [350.3]	15.12 [384.1]	15.91 [404.1]
ZT 210-21	16.39 [416.3]	15.67 [398.0]	17.01 [432.1]	17.80 [452.1]

inches [millimeters]



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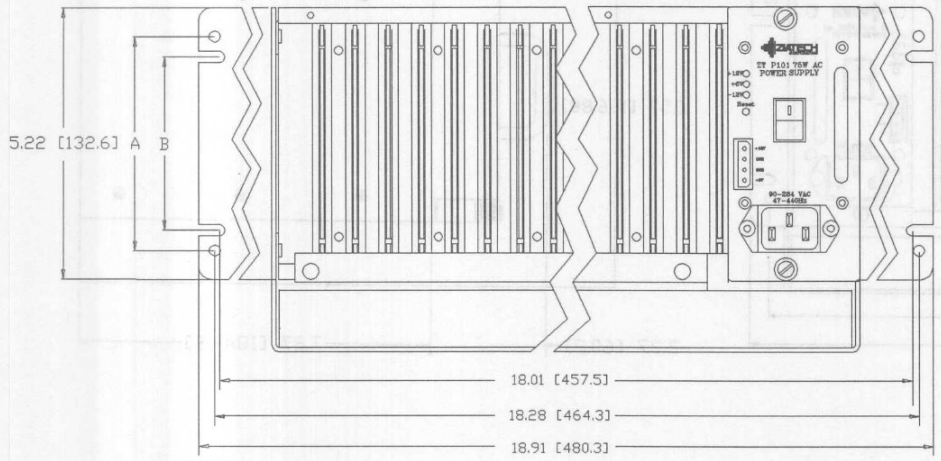
TABLE AND WALL MOUNT VERSIONS

WITH P102 POWER SUPPLY, WITH FANS

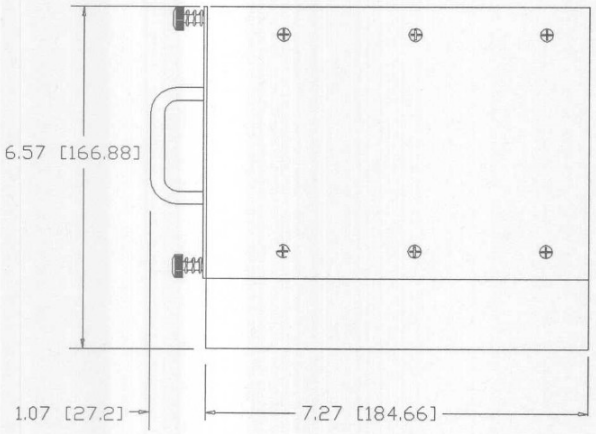
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ZT 210-18	14.50 [368.3]	13.79 [350.3]	15.12 [384.1]	15.91 [404.1]
ZT 210-21	16.39 [416.3]	15.67 [398.0]	17.01 [432.1]	17.80 [452.1]

inches [millimeters]

FRONT VIEW



SIDE VIEW

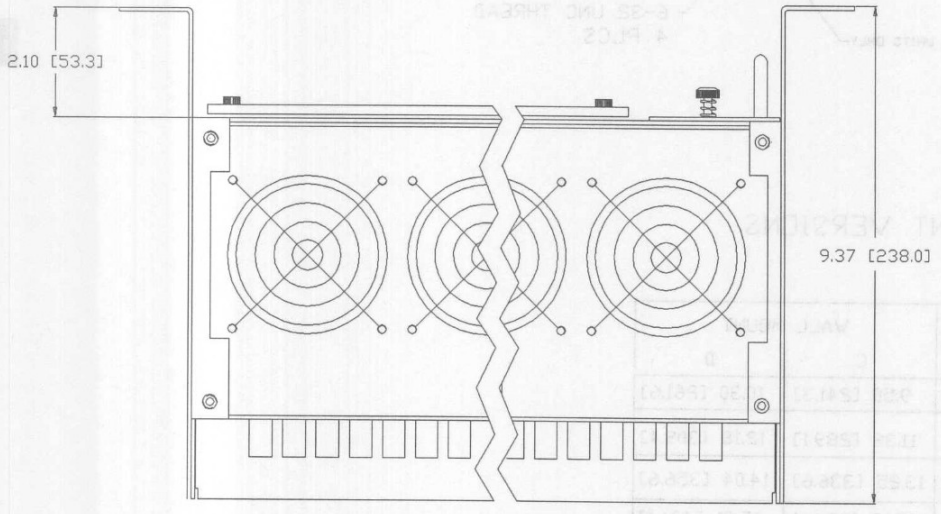


RACK MOUNT VERSIONS

RACK MOUNT W/P101 OR P200 SERIES POWER SUPPLY, WITH FANS

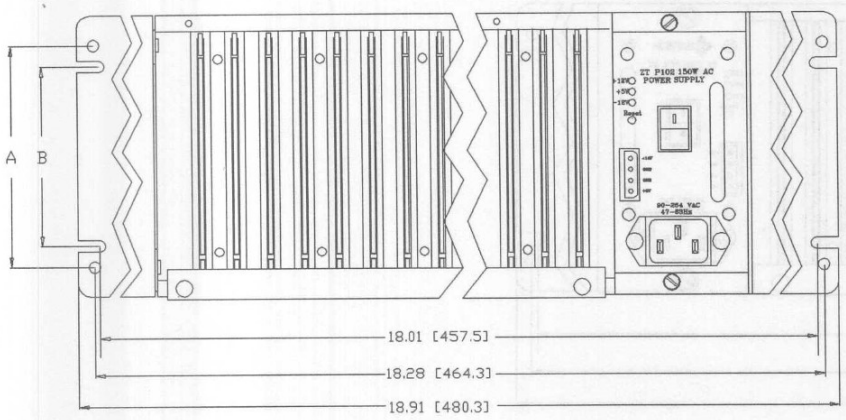
PART NUMBER	A	B
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ZT 210-18	4.75 [120.7]	3.50 [88.9]
ZT 210-21	4.75 [120.7]	3.50 [88.9]

inches [millimeters]

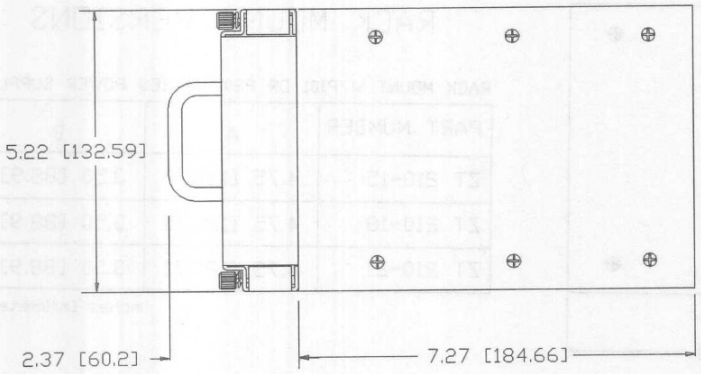


BOTTOM VIEW

FRONT VIEW



SIDE VIEW

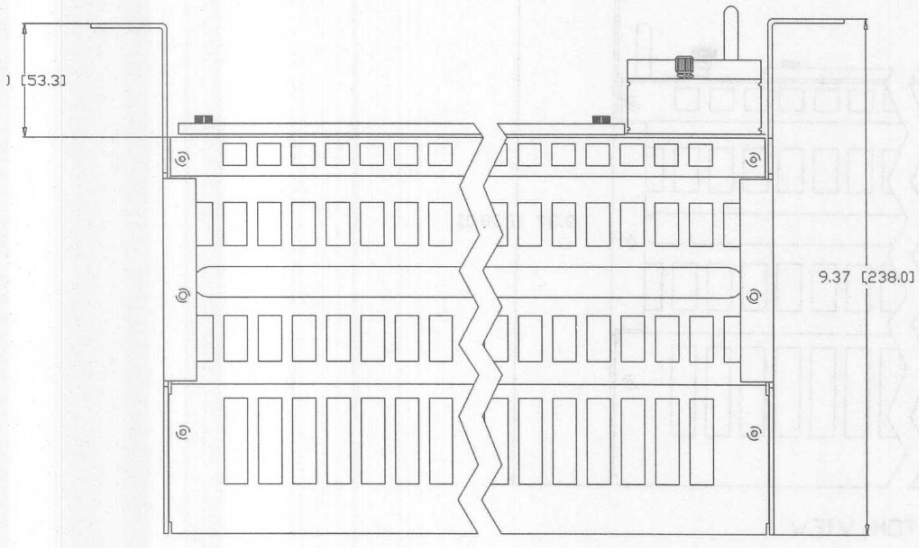


RACK MOUNT VERSIONS

RACK MOUNT W/P102 POWER SUPPLY, NO FANS

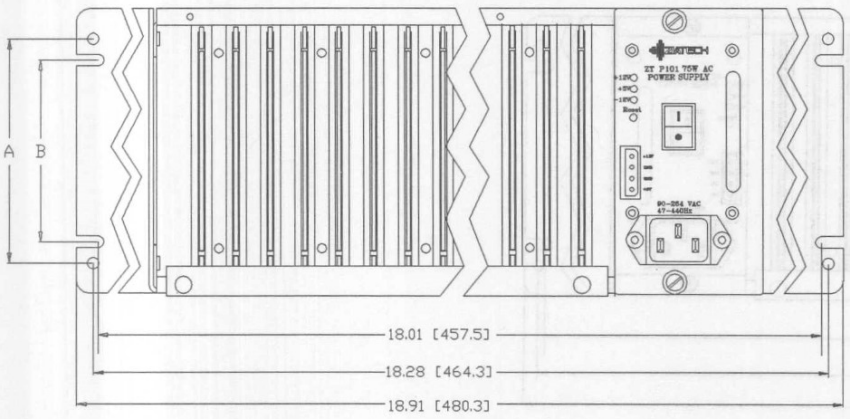
PART NUMBER	A	B
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ZT 210-18	4.75 [120.7]	3.50 [88.9]
ZT 210-21	4.75 [120.7]	3.50 [88.9]

Inches [millimeters]

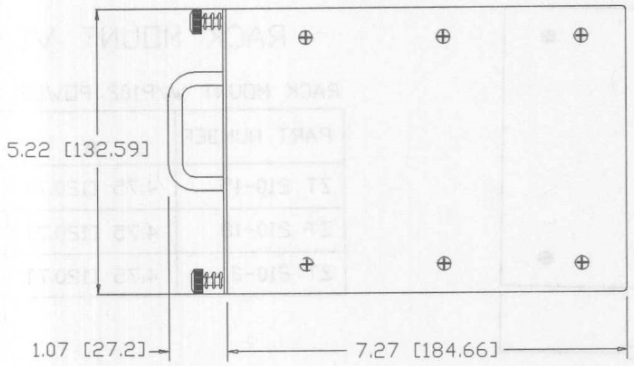


BOTTOM VIEW

FRONT VIEW



SIDE VIEW

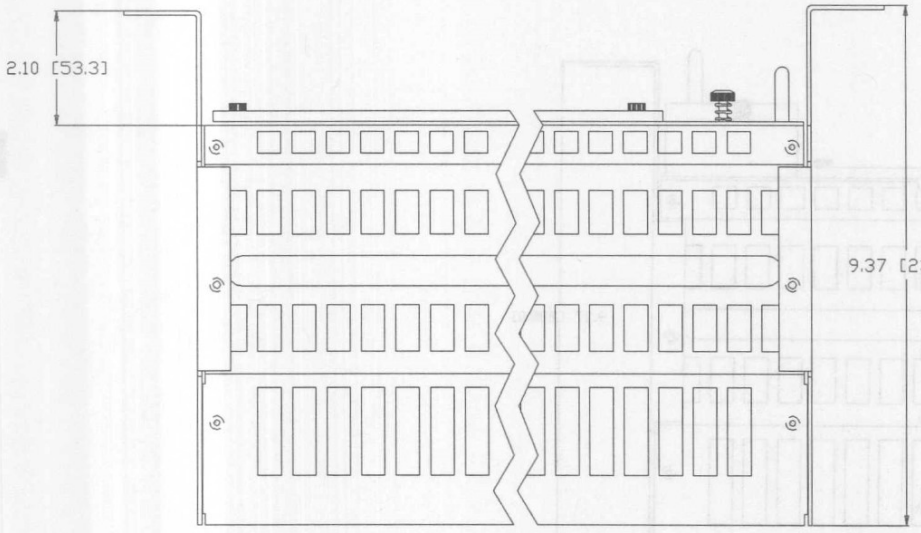


RACK MOUNT VERSIONS

RACK MOUNT W/P101 OR P200 SERIES POWER SUPPLY, NO

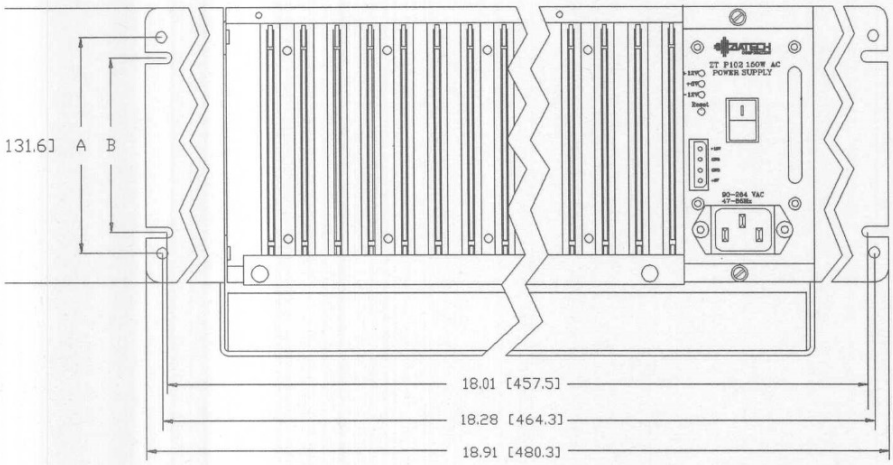
PART NUMBER	A	B
ZT 210-15	4.75 [120.7]	3.50 [88.9]
ZT 210-18	4.75 [120.7]	3.50 [88.9]
ZT 210-21	4.75 [120.7]	3.50 [88.9]

inches [millimeters]

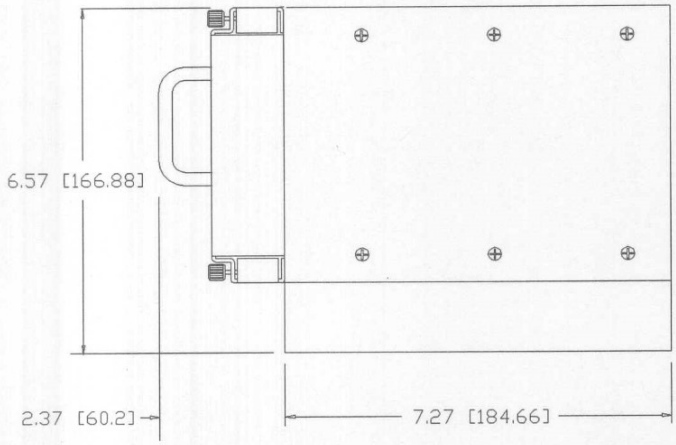


BOTTOM VIEW

FRONT VIEW



SIDE VIEW

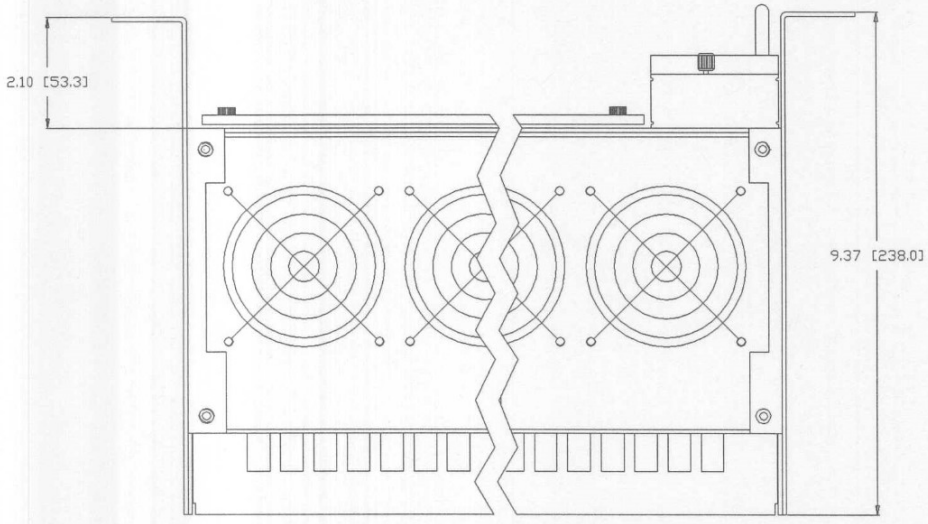


RACK MOUNT VERSIONS

RACK MOUNT W/P102 POWER SUPPLY, WITH FANS

PART NUMBER	A	B
ZT 210-15	4.75 [120.7]	3.50 [88.9]
ZT 210-18	4.75 [120.7]	3.50 [88.9]
ZT 210-21	4.75 [120.7]	3.50 [88.9]

inches [millimeters]



BOTTOM VIEW

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