



- 90 - 150W Convection Cooled Ratings
- 1U High
- ATX SFX 12V Compatible
- Power Factor Corrected
- Peak Power Ratings
- No Minimum Loading Required

Key Market Segments & Applications

Industrial & Rack Mount

PC Applications

ZWX Series

180W to 300W

Industrial ATX Power Supplies

ZWX Features and Benefits

Features

- Convection Cooled Ratings
- Low Profile
- Industrial Grade
- No minimum loading

Benefits

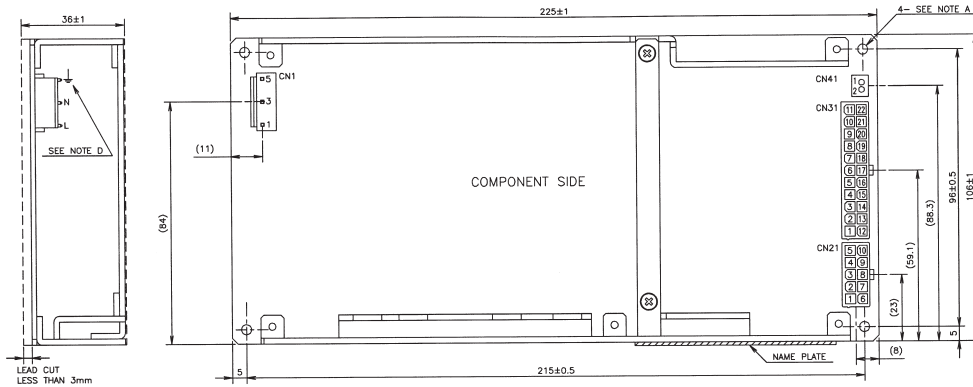
- No Forced Air or Fan Needed
- Fits into 1U High Enclosures
- Greater Reliability & Field Life
- Easier to Use

Specifications

MODELS			ZWX180	ZWX240	ZWX300
ITEMS					
Input Voltage		V	85-265VAC (47-63Hz)		
Input Current	(1)(2)	A	1.9 / 1.0	2.6 / 1.3	3.2 / 1.6
Inrush Current	(2)	A	14 / 28 Cold start 25°C ambient		
Power Factor		-	Meets EN61000-3-2		
Leakage Current		mA	< 0.75		
Overcurrent Protection	(3)	-	>1.05% of forced air current rating (5s delay and manual reset on V1, 2 & 3)		
Overvoltage Protection	(4)	V	+3.3V: 3.76 - 4.3V, +5V: 5.74 - 7V, +12V: 13.4 - 15.6V		
Hold Up Time (Typ)	(1)	ms	20ms at 100VAC		
Efficiency	(1)(2)	%	81 / 84		
Remote On/Off		-	High: Unit off, Low: Unit On (enabled). Meets SFX12V		
DC Good PWR_OK		-	High: Power supply is good. Meets SFX12V		
Remote Sense		-	+3.3V Only		
Output Voltage Setpoint Accuracy		-	±5% (all outputs)		
Output Voltage Adjustment		-	None		
Line Regulation		mV	3.3V: 20mV, 5V: 48mV, +12V: 48mV, -12V: 20mV, +5Vsb: 20mV		
Load Regulation		mV	3.3V: 100mV, 5V: 300mV, +12V: 300mV, -12V: 100mV, +5Vsb: 100mV		
Ripple & Noise		mV	3.3V: 120mV, 5V: 150mV, +12V: 150mV, -12V: 120mV, +5Vsb: 120mV		
Operating Temperature		°C	-10 to +70, derate linearly to 20% load from 50 to 70		
Storage Temperature		°C	-30 to +85°C		
Humidity (non condensing)		%RH	Operating: 30 - 90, Non operating: 10 - 95		
Cooling		-	Convection or forced air cooled (30CFM, 0.85m3/min)		
Withstand Voltage		-	I/P to Gnd 2kVAC (20mA), I/P to O/P 3kVAC (20mA), O/P to Gnd 500VAC (100mA) for 1 min.		
Isolation Resistance		-	>100Ω at 25°C & 70%RH, Output to Ground 500VDC		
Vibration (non operating)		-	10 - 55Hz (1 minute sweep), 19.6m/s ² constant X, Y, Z 1 hour		
Shock (non operating)		m/s ²	< 392		
Safety Agency Approvals		-	UL60950-1, CSA60950-1, EN60950-1, EN50178 (OV II), CE Mark		
Conducted & Radiated EMI		-	EN55011/EN55022-B, FCC Class B, VCCI-B		
Immunity		-	EN61000-4-2, -3, -4, -5, -6, -8, -11		
Weight (Typ)		g	500	650	800
Size (WxHxD)		mm	94 X 36 X 210	106 X 36 X 225	118 X 36 X 250
Warranty		yrs	3 Years		



Outline Drawing ZWX240 Series



CONNECTORS USED:

Table with 3 columns: PART DESCRIPTION, PART NAME, MANUFACT. Lists pin headers and sockets for CN1, CN21, CN31, and CN41.

MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

Table with 3 columns: PART DESCRIPTION, PART NAME, MANUFACT. Lists various housing, pin, and crimping tool part numbers.

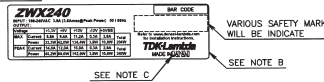
NOTES:

- A: 4-#3.5 HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES...
B: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND PEAK OUTPUT CURRENT ARE SHOWN HERE...
C: COUNTRY OF MANUFACTURE WILL BE SHOWN HERE.
D: IS FOR SAFETY GROUND CONNECTION.

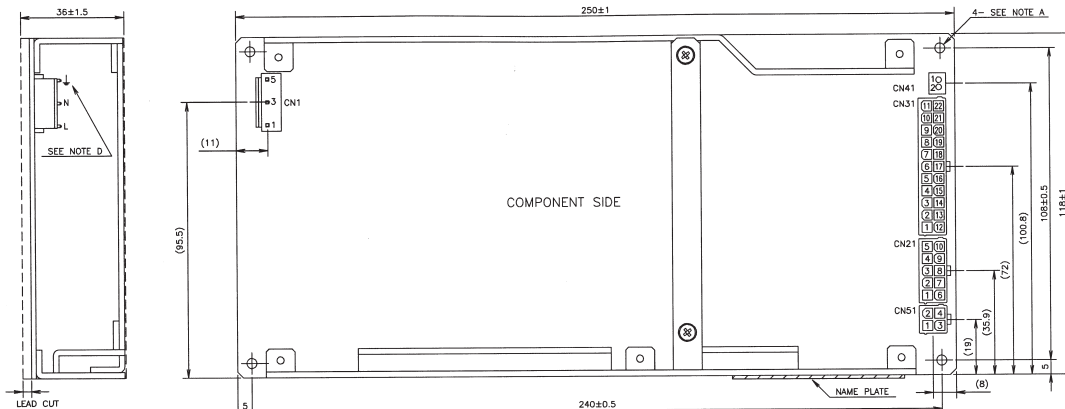
CN PIN ASSIGN

Pin assignment tables for CN21, CN31, and CN41 connectors showing pin numbers and functions.

NAME PLATE



Outline Drawing ZWX300 Series



CONNECTORS USED:

Table with 3 columns: PART DESCRIPTION, PART NAME, MANUFACT. Lists pin headers and sockets for CN1, CN21, CN31, and CN51.

MATCHING HOUSINGS, PINS & TOOL (NOT INCLUDED WITH THE PRODUCT):

Table with 3 columns: PART DESCRIPTION, PART NAME, MANUFACT. Lists various housing, pin, and crimping tool part numbers.

NOTES:

- A: 4-#3.5 HOLES ARE FOR CUSTOMER'S CHASSIS MOUNTING HOLES...
B: MODEL NAME, INPUT VOLTAGE RANGE, NOMINAL OUTPUT VOLTAGE, MAXIMUM OUTPUT CURRENT AND PEAK OUTPUT CURRENT ARE SHOWN HERE...
C: COUNTRY OF MANUFACTURE WILL BE SHOWN HERE.
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CN PIN ASSIGN

Pin assignment tables for CN21, CN31, CN41, and CN51 connectors showing pin numbers and functions.

NAME PLATE



For full data and drawings please visit www.emea.tdk-lambda.com/www/zwx



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