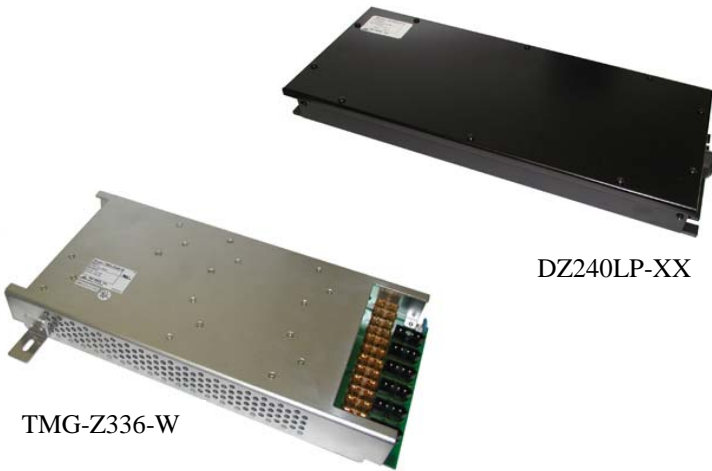




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# POWER SUPPLIES FOR OUTDOOR LED SIGN APPLICATIONS



TMG-Z336-W

DZ240LP-XX

## DESCRIPTION

The DZ240LP, TMG-Z106-W, and the TMG-Z336-W with PFC are designed for outdoor LED sign applications. Continuous output up to 65°C without de-rating. The DZ240LP is potted to withstand outdoor environment.

## FEATURES

- EMI FCC Class B
- Power Factor Correction
- Current Limit Outputs
- LED Indicator for Each Channel
- Universal input 90VAC to 264VAC
- Water Resistant

## APPLICATIONS

- LED Display or Sign application.
- Outdoor Device

## GENERAL SPECIFICATIONS

Input Voltage.....	90VAC to 264VAC
Input Frequency.....	47Hz to 63Hz
Power Factor.....	>0.95
Inrush Current (cold).....	Less than 20A at 115VAC or 40A at 230VAC cold start, 25°C
Operating Temperature.....	-40 to 65°C
Storage Temperature.....	-20°C to 85°C
Cooling.....	Free Air Convection for 200W
Efficiency.....	82-87% Typical
Holdup Time.....	>20ms
Oversvoltage Type.....	Latch off
Overload Protection.....	Reset
Short Circuit Protection.....	Auto-recovery
Safety:	
Designed in full compliance with.....	UL 60950 UL 1310 UL 879
EMI.....	EN55022 "B"
Harmonics.....	EN61000-3-2 class D
EMS.....	EN61000-4-2,-3,-4,-5,-6,-11



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## OUTPUT SPECIFICATIONS

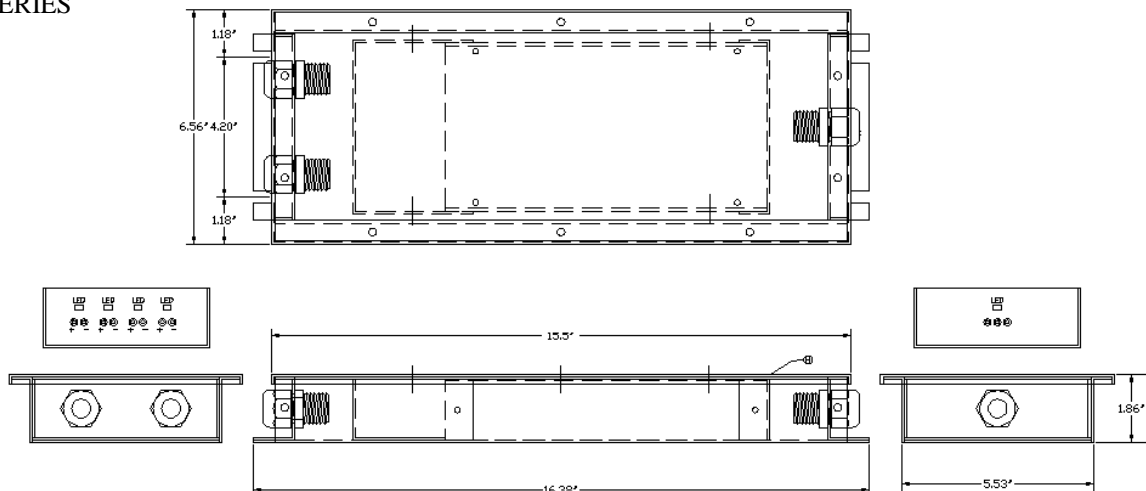
Model	Watts@ 65°C	Voltage	Max load Each Channel	No. Of Channels	Tolerance	Ripple & Noise	Regulation	
							Line	Load
DZ240LP-6	240	5.4V	5.0A	4	1%	50 mV	± 1%	± 1%
DZ240LP-17	240	9.5V	5.0A	4	1%	100 mV	± 1%	± 1%
DZ240LP-7	240	12V	5.0A	4	2%	120 mV	± 1%	± 1%
DZ240LP-8	240	15V	5.0A	3	5%	150 mV	± 1%	± 1%
DZ240LP-9	240	24V	5.0A	2	5%	200 mV	± 1%	± 1%
DZ240LP-14	240	48V	2.50/5.0A	2/1	5%	200 mV	± 1%	± 1%
DZ240LP-18	240	15V	4.0A	4	5%	150 mV	± 1%	± 1%
TMG-Z106-W	106	+5.4V	9.6A	2	1%	60 mV	± 1%	± 2%
		+7.5V	1.0A	1	5%	80 mV	± 1%	± 2%
TMG-Z336-W	336	+5.4V	3.6A	6	1%	60 mV	± 1%	± 2%
		+8.4V	4.2A	6	5%	90 mV	± 1%	± 2%

NOTE: Current limit

- A. DZ240LP Series, the lesser of 100VA or 5.0 amperes per channel
- B. TMG-Z-106-W +5.4V 10A Max  
+7.5V 1A Max
- C. TMG-Z336-W +5.4V 5.0A Max  
+8.4V 5.0A Max
- D. DZ240LP Series add "C" at end of part number for cycle shut down. If output current exceeds set current limit i.e once over current is sensed on channel(s) then it is disabled. After 5 seconds then channel is enabled . If over current is still sensed the it is disabled, this cycle is repeated with 1 minute duration and then a 5 minute duration.

## MECHANICAL SPECIFICATIONS

DZ200LP SERIES





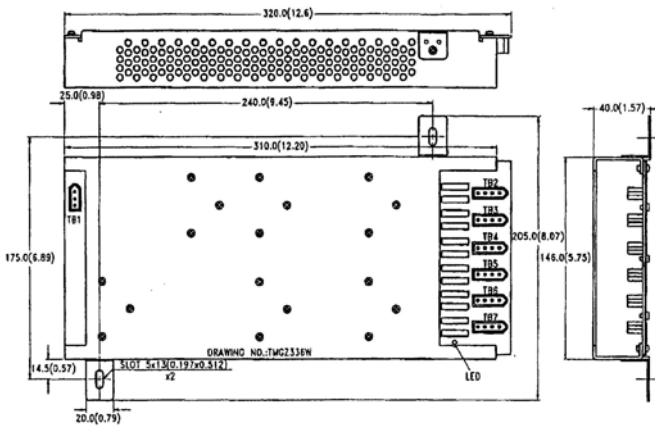
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**MECHANICAL SPECIFICATIONS**

**TMG-Z336-W**

**7.0 MECHANICAL SPECIFICATION**



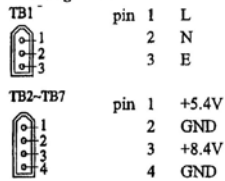
**7.1 Dimensions**

Dimensions shown in mm (inch) as above. Tolerance specified is +/-0.4mm (0.016inch).

**7.2 Connectors**

AC input : Molex 10-18-1032 male pin header or equivalent  
 DC output : 6 pieces of Molex 10-18-1041 male pin header or equivalent

**7.3 Pin assignment**

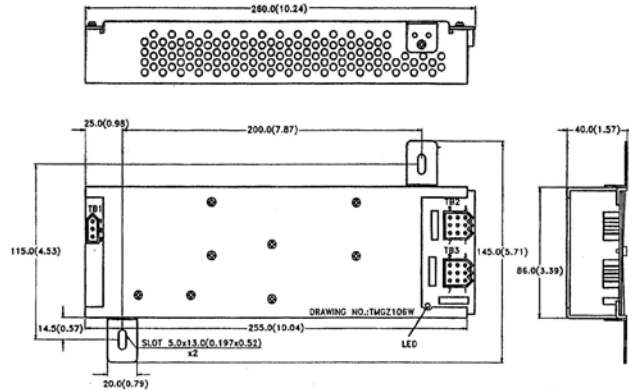


**7.4 Output indicator : 2 colors LED**

+5.4V OK : Green  
 +8.4V OK : Red  
 Both outputs OK : Amber

**TMG-Z106-W**

**7.0 MECHANICAL SPECIFICATION**



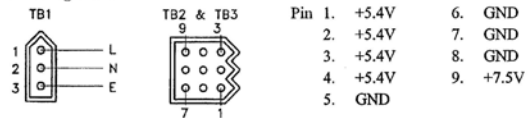
**7.1 Dimensions**

Dimensions shown in mm (inch) as above. Tolerance is +/-0.5mm (0.02inch).

**7.2 Connectors**

AC input : Molex 10-18-1032 male pin header or equivalent  
 DC output : 2 pieces of Molex 10-18-1090 male pin header or equivalent

**7.3 Pin assignment**



**7.4 Output indicator : 2 colors LED**

+5.4V OK : Green  
 +7.5V OK : Red  
 both outputs OK : Amber

Note: +5.4V output are separated into two paths, one path is in series with 10A rated auto fuse. +7.5V path is in series with one 1.0A rated auto fuse.