



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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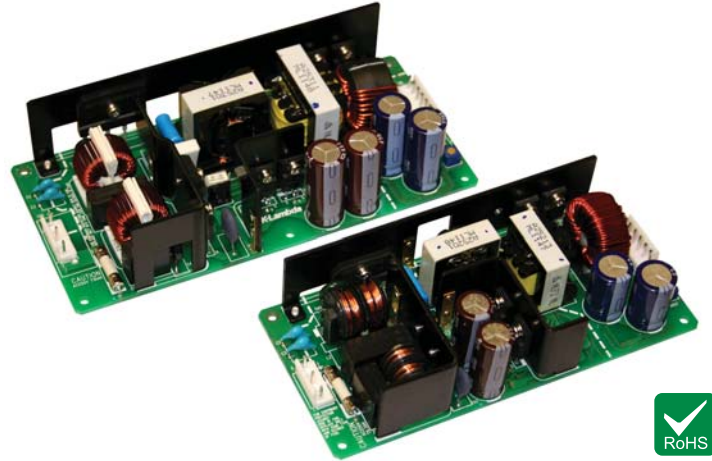
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



## 150-480W Single Output Power Supplies

### Features

- ◆ Universal Input (85 - 265VAC)
- ◆ Power factor Corrected
- ◆ Up to 200% Peak Power capability
- ◆ Five year warranty
- ◆ Less than 0.5mA earth leakage current



### Key Market Segments & Applications



Specifications			
Model		ZWS150BP	ZWS240BP
Input Voltage	V	85-265VAC (47-63Hz), 120-370VDC* (Derate to 80% load below 90VAC Input)	
Input Current	A	1.9 / 0.95	2.8 / 1.5
Inrush Current	(1)(2) A	14 / 28	15 / 30
Power Factor	V	0.98 at 100VAC, 0.93 at 200VAC, Meets EN61000-3-2	
Leakage Current	mA	0.5mA Max. Typically 0.2mA (100VAC), 0.4mA (230VAC)	
Temperature Coefficient	%/°C	<0.02%/°C	
Overcurrent Protection	(3) -	>101% of peak current capability (constant current style)	
Overvoltage Protection	V	24V: 27.6-32.4V, 36V: 41.4-48.6, 48V: 55.2-64.8V	
Hold Up Time (Typ)	(1) ms	20	
Efficiency	(1) %	87 / 90%	88 / 91%
Remote On/Off	-	Optional, contact factory	
Line Regulation	%	0.4%	
Load Regulation	%	0.8%	
Ripple & Noise	%	1%	
Operating Temperature	°C	-10°C to +70°C, derate linearly to 50% load from 50°C to 70°C	
Storage Temperature	°C	-30 to +75°C	
Humidity (non condensing)	%RH	Operating: 30 - 90%RH, Storage: 10 - 90%RH	
Cooling	-	Convection	
Withstand Voltage	-	Input to Ground 2kVAC (20mA), Input to Output 3kVAC (20mA), Output to Ground 500VAC (20mA) for 1 min.	
Isolation Resistance	-	>100M at 25°C & 70%RH, Output to Ground 500VDC	
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6m/s <sup>2</sup> constant X, Y, Z 1 hour each	
Shock	-	< 196.1 m/s <sup>2</sup>	
Safety Agency Certifications	-	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 (lvl 2, 3), -3 (lvl 3), -4 (lvl 3), -5 (lvl 3, 4), -6 (lvl 3), -8 (lvl 4), -11	
Weight (Typ)	g	360g	520g
Size (WxHxD)	in(mm)	2.95 x 1.46 x 6.3 (75 x 37 x 160)	3.31 x 1.65 x 7.09 (84 x 42 x 180)
Warranty	yrs	Five Years	

Notes:

- (1) 100/200VAC
- (2) 25°C ambient (cold start)
- (3) Avoid prolonged operation in overload

\*Safety certified for AC input only



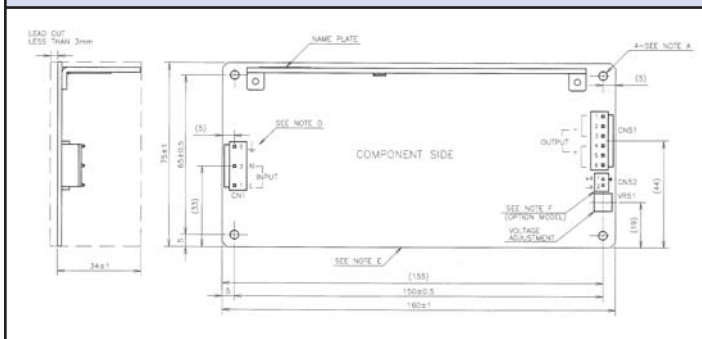
## Model Selector

Model	Output Voltage	Adjust Range	Max Current	Max Power	Peak Current <sup>(4)</sup>	Peak Power <sup>(4)</sup>
ZWS150BP24	24V	21.6 - 26.4V	6.3A	151.2W	12A	288W
ZWS240BP24	24V	21.6 - 26.4V	10A	240W	20A	480W
ZWS150BP36	36V	32.4 - 39.6V	4.2A	151.2W	8A	288W
ZWS240BP36	36V	32.4 - 39.6V	6.7A	241.2W	13.4A	482.4W
ZWS150BP48	48V	39.6 - 52.8V	3.2	153.6W	6A	288W
ZWS240BP48	48V	39.6 - 52.8V	5A	240W	10A	480W

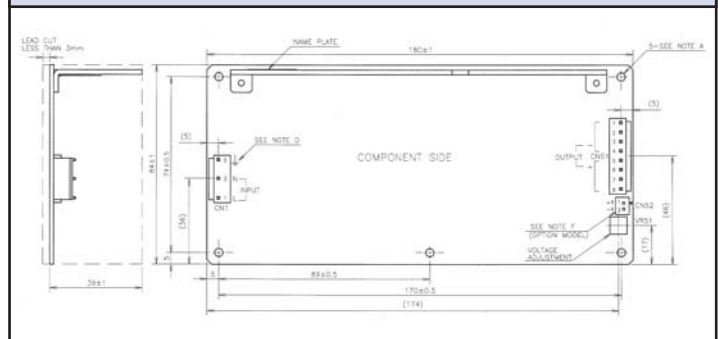
Note 4: For 5s maximum, 15% duty cycle, average power not to exceed maximum ratings.

See website for ratings of duty cycles up to 35%

## ZWS150BP Outline Drawing



## ZWS240BP Outline Drawing



## Other Industrial Products

ZWS-B, -BAF	10W to 150W Single output
HWS	15W to 1800W Single Output, Enclosed
MWS65	65W 2x4" Single Output, Medical & ITE
NV175, EFE	175W to 400W Single Output, Medical & ITE

For Additional Information, please visit [us.tdk-lambda.com/lp/products/zws-series.htm](http://us.tdk-lambda.com/lp/products/zws-series.htm)



## Model Selector

Models suffix	Description
Blank	JST Connectors, no Cover
/L	JST Connectors, L bracket
/A	JST Connectors, Cover
/R	JST Connectors, Remote On/Off
/T	Screw terminals, no Cover or L Bracket*
/TL	Screw terminals, L Bracket*
/TA	Screw terminals, Cover*
/CO2	JST Connectors, pcb coating

\* ZWS240BP only