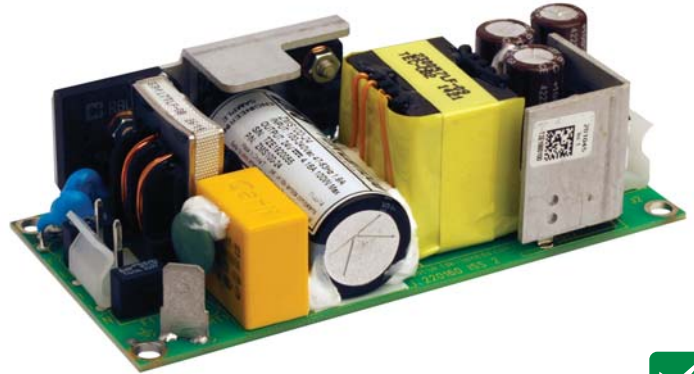


100W, 2 x 4" AC-DC Power Supplies

Features

- ◆ 80W Convection, 100W with Forced Air
- ◆ ITE & Medical Certifications (2 x MOPP) (BF Rated)
- ◆ Long Capacitor Lifetimes
- ◆ Class I and Class II operation
- ◆ Compact 2 x 4 x 1.25" Size



Key Market Segments & Applications



Specifications		
Model	ZMS100	
Input Voltage range (1)	-	90 - 264VAC (47 - 63Hz)
Inrush Current (Cold start at 264VAC input)	A	<40A
Input Current (100W load)	A	2.0 / 1.0A (115 / 230VAC)
Hold Up Time (Typ)	ms	5ms at 100VAC input, 50ms at 230VAC
Harmonic Compliance	-	EN/IEC61000-3-2 class A
Leakage Current	uA	<100uA at 100VAC 60Hz input, <250uA at 230VAC 50Hz
Touch Current (enclosure leakage)	uA	<100uA
Temperature Coefficient	-	±0.02%/°C
No Load Power Draw at 230VAC input	W	<0.5W
Ripple & Noise	mV (pk-pk)	≤2%
Load Regulation	mV	≤1% (0 - 100% load)
Line Regulation	mV	≤0.5% (90 - 264VAC)
Short Circuit Protection	-	Hiccup mode, automatic recovery
Overvoltage Protection	V	Latching (unit shutdown), cycle AC input to reset
Efficiency	%	Up to 90%
Active Average Efficiency	%	>87%
Operating Temperature	°C	-20 to +70°C, derate linearly to 50% load from 50 to 70°C
Storage Temperature	°C	-40 to +85°C
Humidity (non condensing)	%RH	5 - 95%RH
Cooling	-	Convection cooling 80W Forced air 100W (see technical datasheet on website)
Withstand Voltage	VAC	Input to Ground 1.5kVAC (1xMOPP), Input to Output 4kVAC (2xMOPP), Output to Ground 1.5kVAC (1xMOPP)
Isolation Resistance	-	>100M at 25C & 70%RH, Output to Ground 500VDC
Insulation Class	-	Construction suitable for Class II installation
Vibration (non operating)	-	10 to 500Hz at 2G, IEC610068-2-6, 19.6m/s ² constant sweep X, Y, Z for 1 hour
Shock	-	30G EN610068-2-27, -47, MIL-STD-810E
Safety Agency Certifications	-	IEC/EN/UL60950-1 and 60601-1. ES60601-1. Designed to meet IEC61010-1, CQC safety standard GB4943.1-2011
Conducted & Radiated EMI	-	EN55011 / EN55022-B conducted, -A radiated
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8 (Level 3 criteria A) -11 (class 3), -12 (level 3)
Weight (Typ)	g	150
Size (WxLxH)	Inch (mm)	2 x 4 x 1.26" (50.8 x 101.6 x 31.9mm)
Warranty	yrs	Three years
Connectors	-	Molex as standard with separate ground faston Input Molex 10-63-4027, output Molex 09-65-2048

1) ZMS100-12 derate linearly to 90% load from 100V to 90VAC input

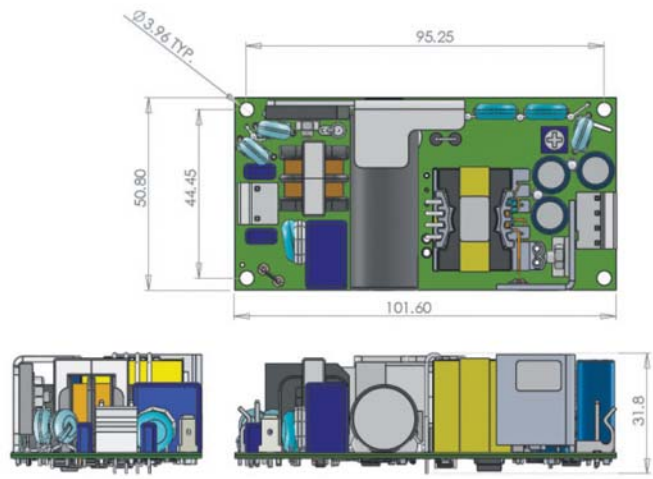
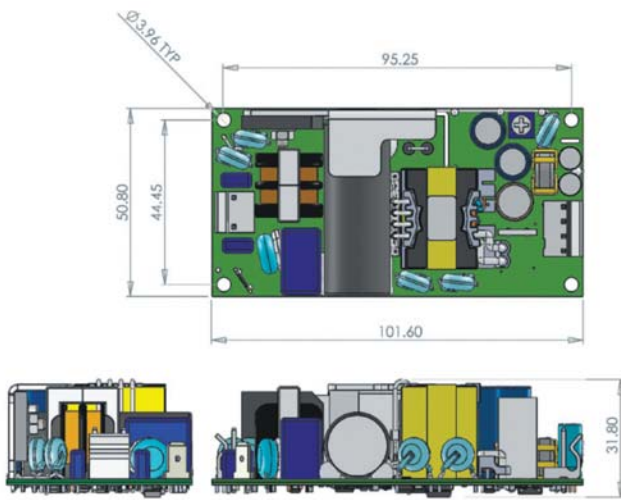
Model Selector

Model	Output Voltage (V)	Adjustment Range (V)	Maximum Current (Convection)	Maximum Current (Forced Air)	Maximum Power (Convection)	Maximum Power (Forced Air)
Single Output						
ZMS100-12	12	11.4 - 13.2V	6.7A	8.4A	80.4W	100.8W
ZMS100-15	15	14.25 - 16.5V	5.4A	6.7A	81.0W	100.5W
ZMS100-24	24	22.8 - 26.4V	3.4A	4.2A	81.6W	100.8W
ZMS100-36	36	32.4 - 39.6V	2.25A	2.8A	81.0W	100.8W
ZMS100-48	48	45.6 - 52.8V	1.67A	2.1A	80.2W	100.8W

Outline Drawing

ZMS100 12 - 15V Series

ZMS100 24 - 48V Series



Other TDK-Lambda AC-DC Products

ZPSA20-60	20 to 60W single output
NV175	175W, 3x5", 1-5 outputs
ZWS	5 to 240W, single output
KPSA	5 to 15W, pcb mount
ZPD, ZPT	40W, 2x4" dual and triple outputs

For Additional Information, please visit us.tdk-lambda.com/lp/products/zms-series.htm

