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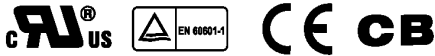
HIGH QUALITY SWITCHING POWER SUPPLIES

AC/DC SWITCHING POWER SUPPLY
 OPEN FRAME 3"x5"
 60 WATTS
 AC INPUT 90-264 / TRIPLE OUTPUT

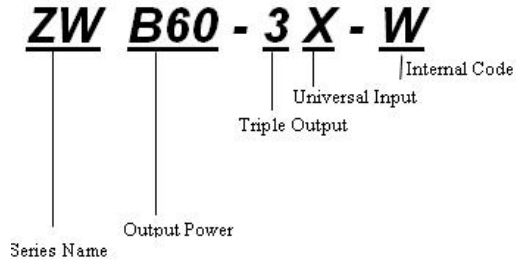
ZWB60-3X-W Series



Dimension: L127XW76.5xH40mm
 (3"x5")



General Description



Features

1. Open Frame 3x5"
2. Universal Input
3. Triple Output
4. Safety Approval, EMC compliance

Input	
Input Voltage Range	90-264VAC
Frequency:	47-63Hz
Input Current:	2A max. (RMS) @ 115VAC
Inrush Current:	<25 peak @ 115VAC <50A peak @ 230VAC (Cold start @25°C)*
Efficiency :	65% typical at full load

DESCRIPTION	MODEL NO. ZWB60-33512X-W			MODEL NO. ZWB60-512 (-) 12X-W			MODEL NO. ZWB60-515 (-) 15X-W			MODEL NO. ZWB60-512 (-) 5X-W		
	OUTPUT VOLTAGE	+3.3V	+5V	+12V	+5	+12	-12	+5	+15	-15	+5	+12
O/P REGULATION	±5%	±8%	±10%	±5%	±8%	±10%	±5%	±8%	±10%	±5%	±8%	±10%
MIN. LOAD	0.7A	0.3A	0.1A	0.7A	0.3A	0.1A	0.7A	0.3A	0.1A	0.7A	0.3A	0.1A
MAX. LOAD with Convection Cooling	7A	3A	2A	7A	3A	0.7A	7A	2.8A	0.7A	7A	3A	0.5A
Max. Power	60W			60W			60W			60W		
RIPPLE & NOISE	50mV	50mV	120mV	50mV	120mV	120mV	50mV	150mV	150mV	50mV	120mV	50mV

DESCRIPTION	MODEL NO. ZWB60-52412X-W			MODEL NO. ZWB60-524 (-) 12X-W			MODEL NO. ZWB60-524 (-) 5X-W		
	OUTPUT VOLTAGE	+5	+24	-12	+5	+24	-12	+5	+24
O/P REGULATION	±5%	±8%	±10%	±5%	±8%	±10%	±5%	±8%	±10%
MIN. LOAD	0.7A	0.1A	0.1A	0.7A	0.1A	0.1A	0.7A	0.1A	0.1A
MAX. LOAD with Convection Cooling	7A	1.5A	0.7A	7A	1.5A	0.7A	7A	1.5A	0.7A
Max. Power	60W			60W			60W		
RIPPLE & NOISE	50mV	240mV	120mV	50mV	240mV	120mV	50mV	240mV	50mV

Hold Up time	>10 mS at full load and 115VAC nominal line
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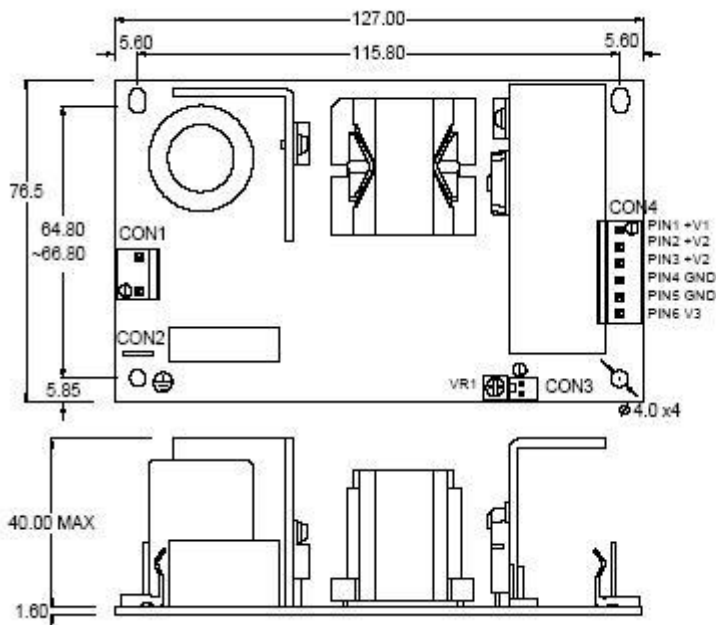
HIGH QUALITY SWITCHING POWER SUPPLIES

Environmental Specification	
Operating Temperature	0 to +40°C
Storage Temperature	-10 to +70°C
MTBF demonstrated	>80'000 hours at full load and 25 °C ambient temperature
Environmental Agencies	
Safety Standards	UL 60950 CSA 22.2-No.60950 TUV EN60950
EMI Standards	CE CISPR 22 Class B EN 55022 Class B
Protection	
Over Voltage Protection	115-135% on +5V only
Over Load Protection	Over load protected @ 110% to 160%
Mechanical	
Dimension [mm]: L127×W76.5×H26mm (3"×5")	

- Note: 1. Peak to Peak with 20MHz bandwidth with a tantalum 10uF in parallel with a 0.1 uF ceramic capacitor.
 2. All output power load should not exceed 60W
 3. Minimum load are required.

DIMENSION DIAGRAM (mm)

All the models **except** the ZWB60-33512X-W use the following:



PIN ASSIGNMENTS:

CON1	PIN1	AC INPUT -L
	PIN2	N.C
	PIN3	AC INPUT -N
CON2		GND
CON3	PIN1	+5V +-SENER
	PIN2	+5V -SENER
CON4		DC OUTPUT

CON.4 DC OUTPUT PIN ASSIGNMENTS:

MODEL No.	Pin 1	Pin 2,3	Pin 6
	+V1	+V2	V3
ZWB60-512 (-) 12X-W	+12	+5	-12
ZWB60-515 (-) 15X-W	+12	+5	-12
ZWB60-512 (-) 5X-W	+12	+5	-5
ZWB60-52412X-W	+15	+5	-15
ZWB60-524 (-) 12X-W	+24	+5	-12
ZWB60-524 (-) 5X-W	+24	+5	+12

Dimension : L127 x W76.5 x H40mm

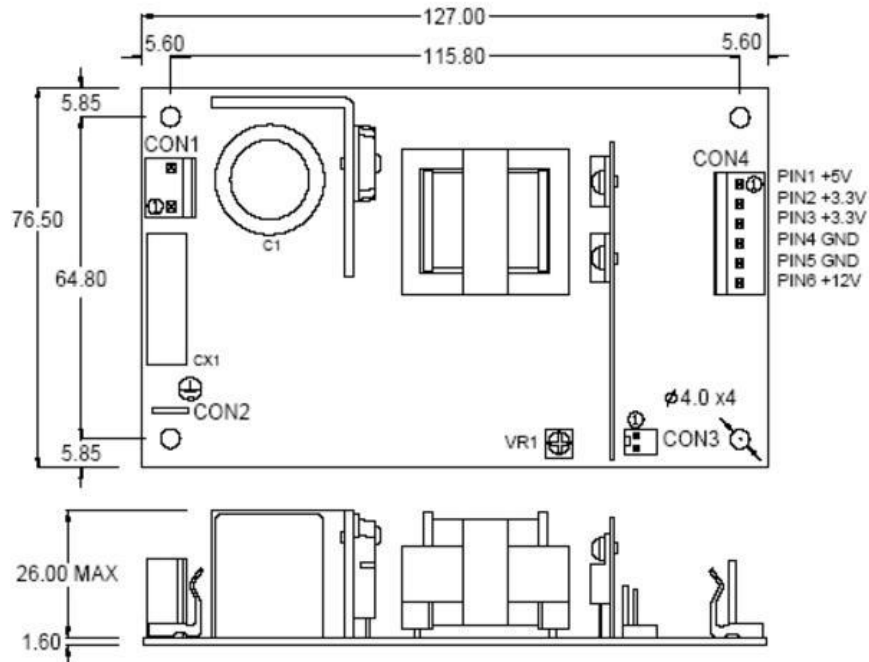




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HIGH QUALITY SWITCHING POWER SUPPLIES

Model No. ZWB60-33512X-W:



PIN ASSIGNMENTS:

Connector	Pin	Assignment
CON1	PIN1	AC INPUT -N
	PIN2	N.C
	PIN3	AC INPUT -L
CON2		GND
CON3	PIN1	+5V +SENER
	PIN2	+5V -SENER
CON4		DC OUTPUT

Dimension : L127 x W76.5 x H26mm

MATCHING CONNECTORS

AC INPUT CON1 = MOLEX P/N: 09-65-2029 (OR EQUIVALENT) FEMALE HOUSING MOLEX P/N: 09-76-1020 (OR EQUIVALENT)

DC OUTPUT CON4 = MOLEX P/N: 09-65-2068 (OR EQUIVALENT) FEMALE HOUSING MOLEX P/N: 09-52-4064 (OR EQUIVALENT)

REMOTE SENSE CON3 = MOLEX P/N: 22-27-2021 (OR EQUIVALENT) FEMALE HOUSING MOLEX P/N: 22-01-2025 (OR EQUIVALENT)



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