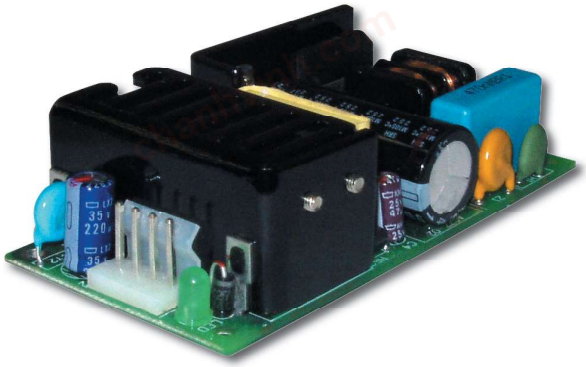
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TDK·Lambda ZPS40/60 Series

2 x 4” 40W to 60W AC-DC Power Supplies

Features

- Single Outputs
- Wide Range AC Input
- Low profile, Industry Standard Footprint
- Global Safety Agency Compliance
- EN61000-4 Immunity
- Up to 88% efficiency



Key Market Segments & Applications

Industrial Test COMM

RoHS

Specifications

Model		ZPS40 ZPS60
Input Voltage range	-	90 - 264VAC (47 - 440Hz) or 120 - 370VDC
Inrush Current (132/265VAC)	A	25 / 50 (cold start)
Input Current (115/230VAC)	A	1.6 / 1.0
Temperature Coefficient	-	±0.05%/°C
Voltage Accuracy	%	±1%
Minimum Load	A	None
Load Regulation	%	±1%
Line Regulation	%	±0.5%
Ripple & Noise (1)	mV	1% or 50mV whichever is greater
Short Circuit Protection	-	Continuous - hiccup mode
Overvoltage Protection	V	Typically 110-130% of nominal
Hold Up Time (Typ)	ms	8ms at 115VAC input
LED Indicator	-	Green LED = OK
Operating Temperature (2)		0 to +70°C, derate linearly to 50% load from 50°C to 70°C
Storage Temperature	-	-20 to +85°C
Humidity (non condensing)	-	10 - 95% RH
Cooling	-	Convection
Withstand Voltage		Input to Ground 1.5kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.
Isolation Resistance		>100M at 25C & 70%RH, Output to Ground 500VDC
Vibration (non operating)		23.52m/s^2 (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)
Shock	-	< 196.1 m/s^2 (20G)
Safety Agency Approvals	-	IEC/UL/CSA/EN62368-1, 60950-1, CE Mark
Conducted & Radiated EMI	-	EN55022-B, FCC Class B
Immunity	-	EN61000-4-2,-3,-4,-5,-6,-8
Weight (Typ)	g (oz)	170g (6oz)
Size (WxLxH)	in	2 x 4 x 1.2 (including underside components)
Warranty	yrs	Two Year

Notes:

(1) Measured with 0.1uF ceramic & 10uF electrolytic at 20MHz BW

(2) ZPS40 (3.3V to 9V models), ZPS60 (3.3V to 12V models) derate linearly to 25% load from 40°C to 70°C

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2 Output Module Codes

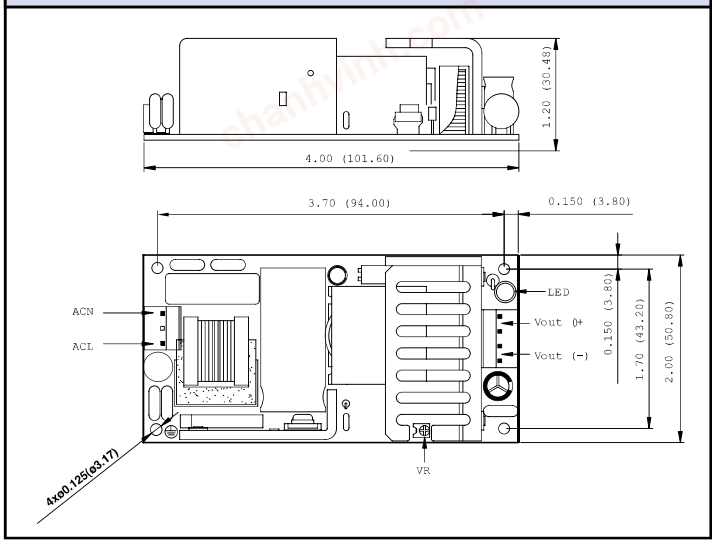
Model		O/P(V)	Max. O/P(A)	Peak (A)(3)	Output Pwr(W)	Eff. (%)
Single Output						
ZPS40-3R3	V1	3.3	6.0	7.2	20.0	74
ZPS60-3R3	V1	3.3	8.0	8.5	26.0	74
ZPS40-5	V1	5.0	6.0	7.2	30.0	78
ZPS60-5	V1	5.0	8.0	9.0	40.0	78
ZPS40-9	V1	9.0	4.45	5.34	40.0	82
ZPS60-9	V1	9.0	6.67	8.0	60.0	82
ZPS40-12	V1	12.0	3.34	4.0	40.0	84
ZPS60-12	V1	12.0	5.0	6.0	60.0	84
ZPS40-15	V1	15.0	2.67	3.2	40.0	85
ZPS60-15	V1	15.0	4.0	4.8	60.0	85
ZPS40-24	V1	24.0	1.67	2.0	40.0	86
ZPS60-24	V1	24.0	2.5	3.0	60.0	86
ZPS40-30	V1	30.0	1.33	1.6	40.0	86
ZPS60-30	V1	30.0	2.0	2.4	60.0	86
ZPS40-36	V1	36.0	1.11	1.33	40.0	87
ZPS60-36	V1	36.0	1.67	2.0	60.0	87
ZPS40-48	V1	48.0	0.834	1.0	40.0	88
ZPS60-48	V1	48.0	1.25	1.5	60.0	88

Note: (3) Average not to exceed max power, <30s, 10% duty cycle

Other Industrial Products

SC40/60	40 to 80W, 3x5", 1 - 3 outputs
NV175	175W, 3x5", 1-5 outputs
ZWS	5 to 240W, single output

ZPS Outline Drawing



For additional information, please visit
https://product.tdk.com/en/power/