4-15W AC-DC Board Mount Power Supplies

Features

- ◆ Low profile
- ◆ Smaller footprint
- ◆ PC board Mountable
- ◆ Low Cost
- ◆ UL Class II Approved
- ♦ Wide input range
- ◆ No external components needed

Key Market Segments & Applications













Specifications								
Model		KPSA-5	KPSA-10	KPSA-15				
Input Voltage range	-	85 - 264VAC (47 - 63Hz) or 110 - 370VDC*						
Inrush Current	Α	30A at 240VAC, cold start at 25°C						
Input Current (115/230VAC)	Α	0.13 / 0.07						
Leakage Current	mA	0.25mA maximum						
Temperature Coefficient	-	±0.05%/°C						
Voltage Accuracy	-	±1%						
Minimum Load	Α	None						
Load Regulation	-	±1% (10% to 100% load)						
Line Regulation	-	±0.5% (100-240VAC line change)						
Ripple & Noise (1)	mV	1% or 50mV whichever is greater						
Short Circuit Protection	-	Continuous - hiccup mode						
Overvoltage Protection	V	130-150%, Zener clamp						
Efficiency (typical)	%	72%	75%	75%				
Hold Up Time (Typ@115VAC input)	ms	14ms at full load						
LED Indicator	-	Green LED = OK						
Operating Temperature (2)		Convection cooling: 0 to +70°C, derating linearly to 25% load from 40 to 70°C						
Storage Temperature	°C	-20 to +85°C						
Humidity (non condensing)	-	10 - 95% RH						
Cooling	-	Convection or forced air						
Withstand Voltage	-	Input to Output 3kVAC						
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	-	UL60950-1, CSA60950-1, EN60950-1, Class II, CE Mark						
Conducted & Radiated EMI	-	EN55022-B, FCC Class B						
Immunity	-	EN61000-4 -2, -3, -4, -5, -6						
Weight (Typ)	g(oz)	29g (1oz)	60g (2oz)	80g (2.8oz)				
Size (WxLxH; H above pcb)								
Warranty	yr	One Year						

^{*}Safety certified for AC input only.

Notes:

- (1) Measured with 0.1uF ceramic & 10uF electrolytic at 20MHz BW
- (2) 20CFM forced air ratings:

KPSA5: 0 - 70°C full load

KPSA10: 0 - 70°C full load (3.3V & 5V models derate linearly to 80% load from 50 to 70°C)

KPSA15: 0 - 70°C derate linearly to 80% load from 50 to 70°C

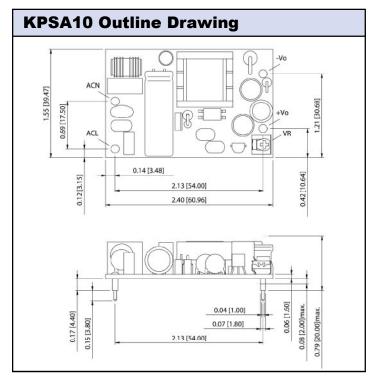
Model Selector (other voltages available)

Model	Output Voltage (V)	Maximum Output (A)	Peak Load (A)(3)	Output Pwr (W)	
KPSA5-3R3	3.3	1.25	-	4.1	
KPSA5-5	5	1.0	-	5.0	
KPSA5-12	12	0.42	-	5.0	
KPSA5-15	15	0.33	-	5.0	
KPSA5-24	24	0.23	-	5.5	
KPSA10-3R3	3.3	2.5	3.8	8.3	
KPSA10-5	5	2.0	2.8	10.0	
KPSA10-12	12	0.84	1.2	10.1	
KPSA10-15	15	0.67	1.0	10.1	
KPSA10-24	24	0.42	0.65	10.1	
KPSA15-3R3	3.3	3.0	4.5	9.9	
KPSA15-5	5	3.0	4.0	15.0	
KPSA15-12	12	1.25	1.8	15.0	
KPSA15-15	15	1.0	1.5	15.0	
KPSA15-24	24	0.63	0.95	15.1	

Notes

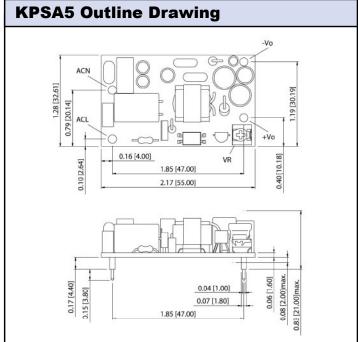
ZWS

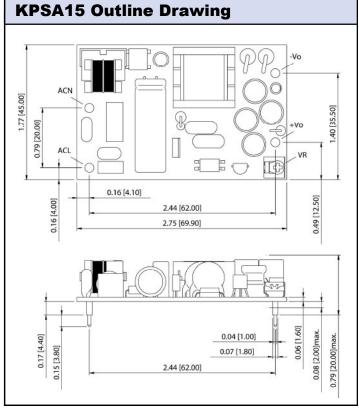
(3) Average not to exceed max power, <30s, 10% duty cycle



Other Industrial Products ZPSA 20W to 60W KM 15 to 40W pcb mount medical

5 to 240W, single output





For Additional Information, please visit https://product.tdk.com/info/en/products/power/index.html

