

KEY FEATURES

- Open Frame Switching Power Supply
- Universal Input: 90-264 VAC
- Single Output
- <0.3W No Load Input Power
- 5 VDC to 48 VDC Output
- 3Ultra Compact Size: 3.0 x 2.0 x 1.24 Inches
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

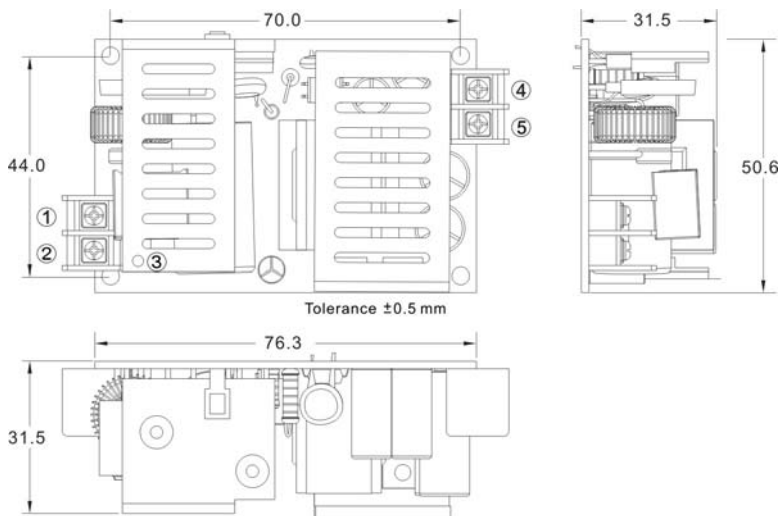
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No.		SZA600-5S	SZA600-12S	SZA600-15S	SZA600-24S	SZA600-48S
Max Output Wattage (W)		50W	60W			
Input	Voltage	90-264 VAC or 120-370 VDC, "L" to DC "+"; "N" to DC "-"				
	Frequency (Hz)	47-63 Hz				
	Current (Full load)	2 A max. (115 VAC) / 1 A max. (230 VAC)				
	Inrush Current (Cold Start)	35 A max. (115 VAC) / 70 A max. (230 VAC)				
	Leakage Current	0.75 mA max.				
	No Load Input Power (<230 VAC)	<0.3W				
Output	Voltage (V.DC.)	5V	12V	15V	24V	48V
	Voltage Accuracy	±2%				
	Current (mA) max	10,000	5,000	4,000	2,500	1,250
	Line Regulation (LL-HL) (typ.)	±1%				
	Load Regulation (5-100%) (typ.)	±1%				
	Minimum Load	0%				
	Maximum Capacitive Load (at 230 VAC)	10,000 uF	5,000 uF	4,000 uF	2,000 uF	1,000 uF
	Ripple & Noise (max.)	75mVp-p	100mVp-p	125mVp-p	150mVp-p	200mVp-p
	Efficiency (at 230V)	81%	87%	87%	88%	88%
	Trim	±5%				
	Hold-up Time (>115 VAC)	10 ms min.				
Protection	Over Power Protection	Auto recovery				
	Over Voltage Protection	Zener diode clamp				
	Short Circuit Protection	Auto recovery				
Isolation	Input-Output (Note 3)	3000VAC or 4242VDC				
	Input-FG (V.AC)	1500V				
	Output-FG (V.AC)	500V				
Environment	Operating Temperature (Note 4)	-30°C...+70°C (with derating)				
	Storage Temperature	-50°C...+85°C				
	Temperature coefficient	±0.02%/°C				
	Humidity	95% RH				
	MTBF	>130,000 h @ 25°C (MIL-HDBK-217F)				
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.				
Physical	Dimension s(L x W x H)	3.0 x 2.0 x 1.24 Inches (76.3 x 50.6 x 31.5 mm) Tolerance ±0.5 mm				
	Weight	150 g				
	Cooling Method	Free air convection				
Safety	Agency Approvals	IEC / EN 60950, UL / IEC / EN 62368-1				
EMC	EMI (Conducted & Radiated Emission)	EN 55032 Class B				
	EMS (Noise Immunity)	EN 55024				

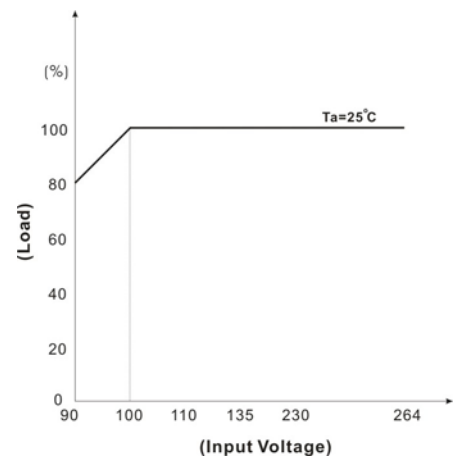
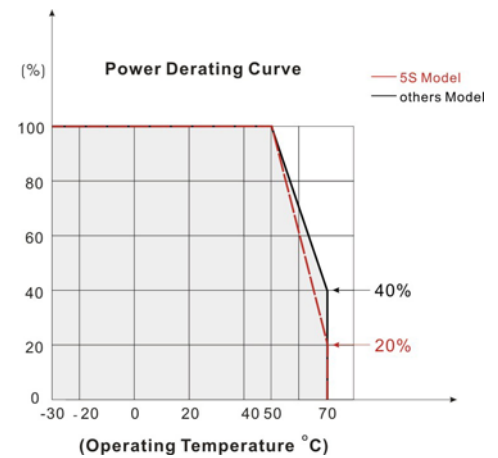
NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. It's necessary 10R / 15φ thermistor at L input side in series connection.
3. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors from Arch power supply.
4. Due to varying customer application conditions, the product is tested for maximum operating temperature under full load only. For other regulatory requirements, please contact ARCH.

MECHANICAL DIMENSIONS (Top View)



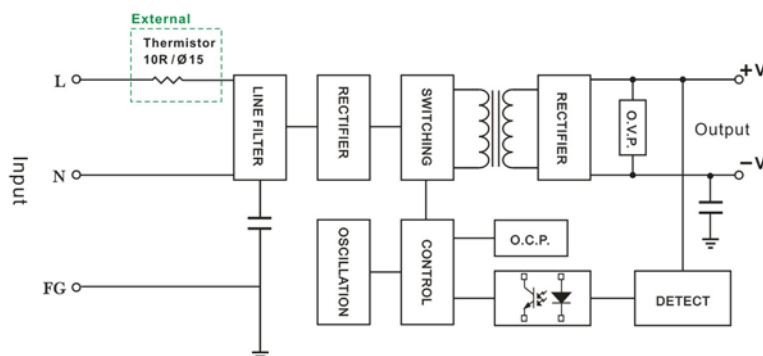
DERATING



Brands					
PIN#	Single	Terminal			
1	AC IN (N)	ANYTEK YK-312-2P			
2	AC IN (L)				
3	FG / PE	—	—	—	—
4	+DC OUT	ANYTEK YK-312-2P			
5	-DC OUT				

BLOCK DIAGRAM

Single Output



KEY FEATURES

- U Bracket Switching Power Supply
- Universal Input: 90-264 VAC
- Single Output
- <0.3W No Load Input Power
- 5 VDC to 48 VDC Output
- Ultra Compact Size: 3.15 x 2.35 x 1.5 Inches
- 3-Year Product Warranty



ELECTRICAL SPECIFICATIONS

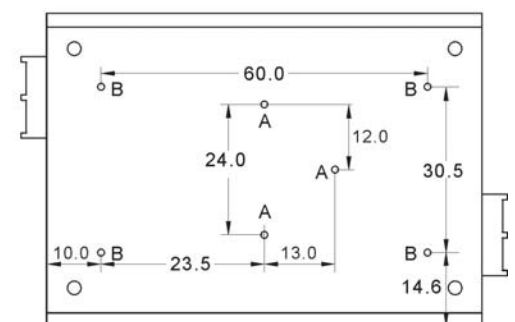
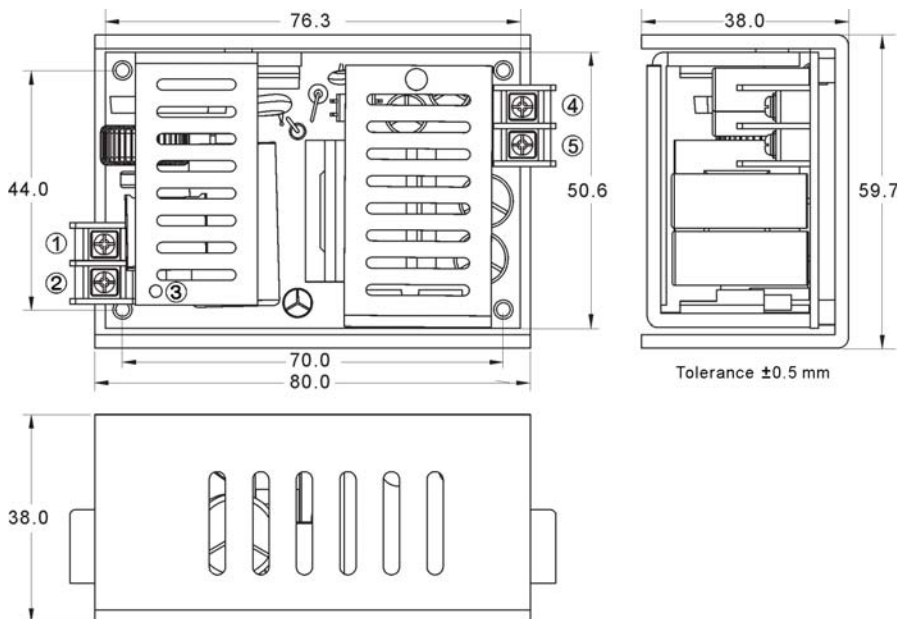
All specifications valid at normal input voltage, full load and +25°C after warm-up time unless otherwise stated.

Model No.		SZA60U-5S	SZA60U-12S	SZA60U-15S	SZA60U-24S	SZA60U-48S
Max Output Wattage (W)		50W	60W			
Input	Voltage	90-264 VAC or 120-370 VDC, "L" to DC "+"; "N" to DC "-"				
	Frequency (Hz)	47-63 Hz				
	Current (Full load)	2 A max. (115 VAC) / 1 A max. (230 VAC)				
	Inrush Current (Cold Start)	35 A max. (115 VAC) / 70 A max. (230 VAC)				
	Leakage Current	0.75 mA max.				
	No Load Input Power (<230 VAC)	<0.3W				
Output	Voltage (V.DC.)	5V	12V	15V	24V	48V
	Voltage Accuracy	±2%				
	Current (mA) max	10,000	5,000	4,000	2,500	1,250
	Line Regulation (LL-HL) (typ.)	±1%				
	Load Regulation (5-100%) (typ.)	±1%				
	Minimum Load	0%				
	Maximum Capacitive Load (at 230 VAC)	10,000 uF	5,000 uF	4,000 uF	2,000 uF	1,000 uF
	Ripple & Noise (max.)	75mVp-p	100mVp-p	125mVp-p	150mVp-p	200mVp-p
	Efficiency (at 230V)	81%	87%	87%	88%	88%
	Trim	±5%				
	Hold-up Time (>115 VAC)	10 ms min.				
Protection	Over Power Protection	Auto recovery				
	Over Voltage Protection	Zener diode clamp				
	Short Circuit Protection	Auto recovery				
Isolation	Input-Output (Note 3)	3000VAC or 4242VDC				
	Input-FG (V.AC)	1500V				
	Output-FG (V.AC)	500V				
Environment	Operating Temperature (Note 4)	-30°C...+70°C (with derating)				
	Storage Temperature	-50°C...+85°C				
	Temperature coefficient	±0.02%/°C				
	Humidity	95% RH				
	MTBF	>130,000 h @ 25°C (MIL-HDBK-217F)				
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes.				
Physical	Dimensions (L x W x H)	3.15 x 2.35 x 1.5 Inches (80.0 x 59.7 x 38.0 mm) Tolerance ±0.5 mm				
	Weight	220 g				
	Cooling Method	Free air convection				
Safety	Agency Approvals	IEC / EN 60950, UL / IEC / EN 62368-1				
EMC	EMI (Conducted & Radiated Emission)	EN 55032 Class B				
	EMS (Noise Immunity)	EN 55024				

NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF & 47uF parallel capacitor.
2. It's necessary 10R / 15 ϕ thermistor at L input side in series connection.
3. Strongly recommend to conduct this test with DC Voltage. If customer wishes to test with AC Voltage, please disconnect all Y-Capacitors from Arch power supply.
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MECHANICAL DIMENSIONS (Top View)



A=For fixture to din rail clip only

A=M3x0.5P

B=For fixture to pcb/chassis only

B=M3x0.5P

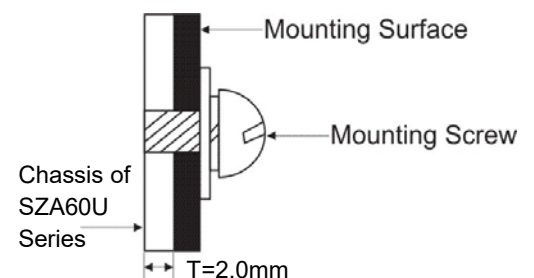
Torque:3±0.5 Kgf.cm

ASSEMBLY INSTRUCTIONS

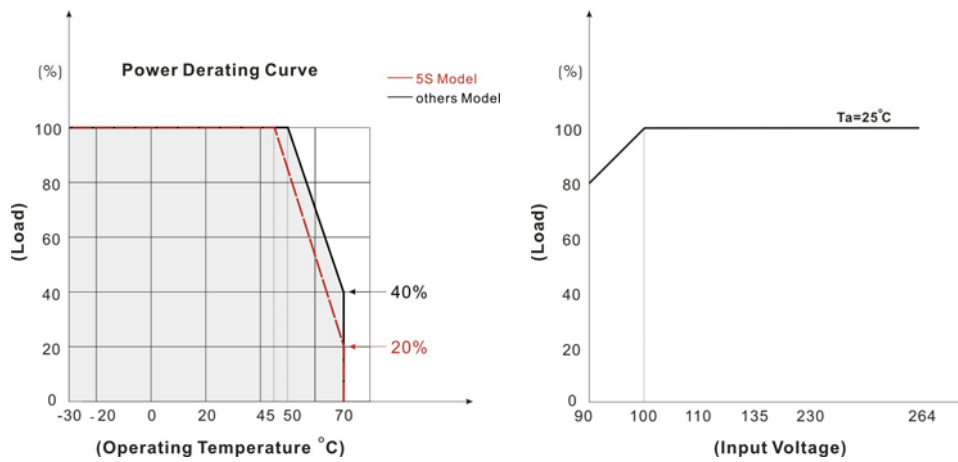
*U Case T=2.0mm

Customer is advised to screw into the threads no more than 2.0mm

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1	AC IN (N)	ANYTEK YK-312-2P			
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3	FG / PE	—	—	—	—
4	+DC OUT	ANYTEK YK-312-2P			
5	-DC OUT				



DERATING



BLOCK DIAGRAM

Single Output

