

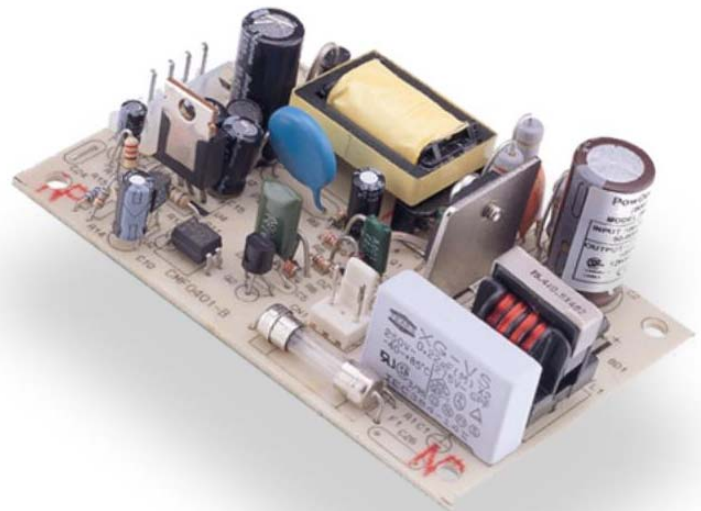
SMA Series

12 Watts

Dual & Triple Output Switching Power Supply

Features:

- * Small 3.54 x 2.32 x 1.1" Open Frame Package
- * Convection Cooled Operation
- * Universal AC Input (47-63 Hz)
- * 100,000 hours MTBF (25°C Full Load Operation)
- * International Safety Approvals & CE Mark
- * Class B Emissions
- * 3 Year Warranty



Input Specifications:

Input Range	Universal VAC (90-264 VAC) & 120-370 VDC
Input Frequency	47-63 Hz or DC
Inrush Current	25A @ 115VAC / 50A @ 230VAC max (cold start)
Input Current	400ma Maximum
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	65% Typical (depending on output model)
Input Protection	Single Fused (2 Amp / 250 V)
Hold-up Time	Half Cycle Minimum @ 120 VAC and 80% load
Leakage Current	<750 μ A maximum @ 264 VAC
Harmonics	EN61000-3-2 Class D

Output Specifications:

Adjustment Range	Fixed at Factory
Minimum Load	See Output Table
Regulation	$\pm 3\%$ maximum (line, load & temperature)
Ripple / Noise	$\pm 1\%$ pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	$\pm 2\%$
Short Circuit Protection	Continuous
Over Load Protection	125-150%, automatic recovery
Over Voltage Protection	120-150%, latched shutdown

Emissions Standards

FCC Part 15J, Part 2	Within Class B Limits
EN55022 / CISPR22	Within Class B Limits

Electromagnetic Compatibility:

Electrostatic Discharge	EN61000-4-2, ± 4 KV Contact / ± 8 KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ± 2 KV
Surges	EN61000-4-5, ± 2 KV Line-Earth, ± 1 KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15 - 800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Radiated Emissions	FCC 68 part 15 Class B
Conducted Emissions	FCC 68 part 15 Class B
Harmonic Current	EN61000-3-2 Class D
Fluctuations & Flicker	EN61000-3-3

Environmental Specifications:

Operating Temp	0 ~ 50°C (De-Rate 2.5%/1°C Rise To +70°C)
Storage Temp	-20 ~ +85°C
Cooling	Convection Cooled Operation
Temp Co-Efficient	0.05% per degrees celsius
Humidity	5 to 95% RH Non-Condensing
Vibration	3 Axes 1 Oct/min, 5 min at 4 Res. 0.75G Pk, 5-500Hz
Shock	20G Peak Acceleration
Reliability	>100k hours MTBF (Full Load and 25°C Operation)

International Safety Approvals

Standards	UL 1950 (2nd Edition), File # E158470
	CSA 22.2 No. 950
	TUV EN60950
	CE Mark (LVD)

Output Table:

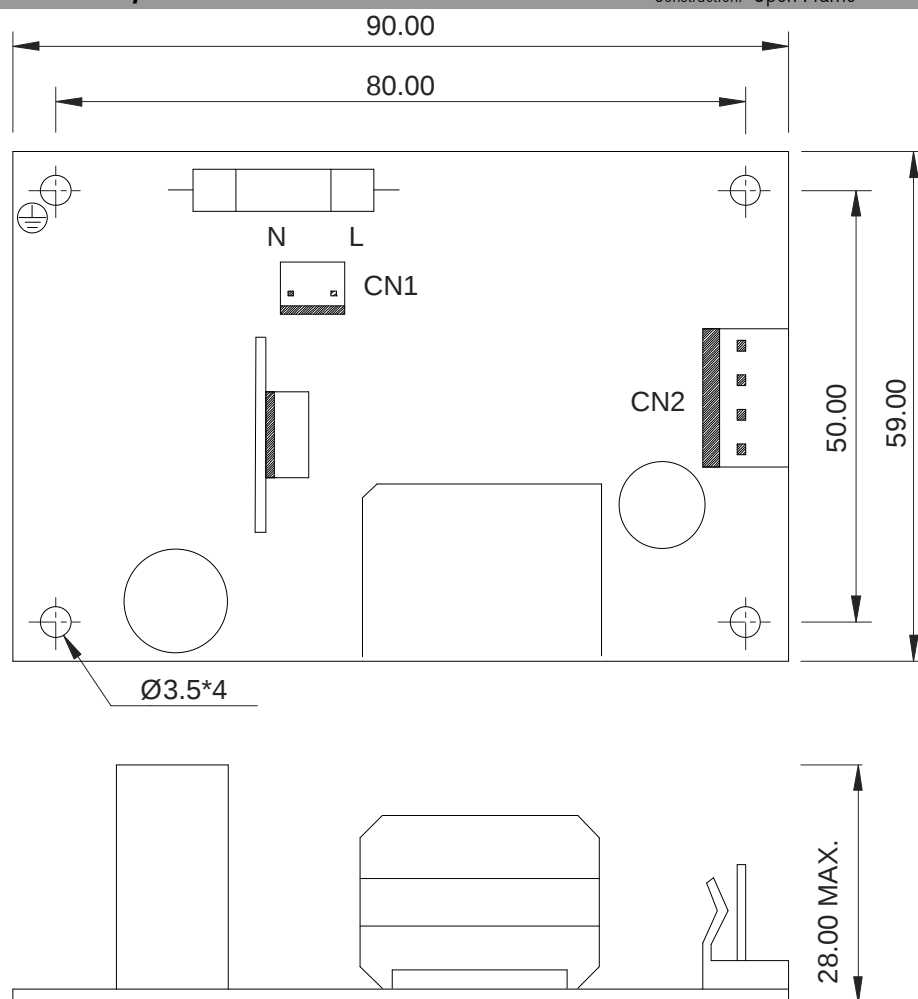
Model Number	V1	Io Min	Io Max	V2	Io Min	Io Max	V3	Io Min	Io Max
SMA10-21	+3.3VDC	300mA	3000mA	+15VDC	100mA	300mA	-	-	-
SMA10-22	+3.3VDC	300mA	3000mA	+12VDC	100mA	300mA	-	-	-
SMA10-23	+5VDC	200mA	2000mA	+15VDC	100mA	300mA	-	-	-
SMA10-24	+5VDC	200mA	2000mA	+12VDC	100mA	300mA	-	-	-
SMA10-25	+3.3VDC	300mA	3000mA	+5VDC	100mA	300mA	-	-	-
SMA10-31	+3.3VDC	200mA	2000mA	+15VDC	100mA	300mA	-15VDC	100mA	300mA
SMA10-32	+3.3VDC	200mA	2000mA	+12VDC	100mA	300mA	-12VDC	100mA	300mA
SMA10-33	+5VDC	200mA	1500mA	+15VDC	100mA	300mA	-15VDC	100mA	300mA
SMA10-34	+5VDC	200mA	1500mA	+12VDC	100mA	300mA	-12VDC	100mA	300mA

Note: Maximum Output Power not to exceed 12 Watts

Mechanical Specifications:

Construction: Open Frame

Weight: 0.184 lb / 0.084 kg



Input Pin Assignmnets:

CN1-1 Line
CN1-2 Neutral

Output Pin Assignmnets:

CN2-1 V3 or NC
CN2-2 RETURN
CN2-3 V1
CN2-4 V2

Mating Connectors:

CN1 (AC Input) Mating Connector:
Molex 22-01-2031 (3-1) (2659 series)

CN2 (DC Output) Mating Connector:
Molex 09-52-4044 (5239 series)

UNITS: MM

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