



Features:

- Universal Input 100 – 240 VAC
- IEC320-C14 Input Socket
- Single, Dual & Triple Outputs
- Over-Current Protection, Over-Voltage Protection
- 100% Burn-In
- RoHS 2 Compliant
- Energy Efficiency Level: V



Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	0.9A Max. at 115VAC 0.34A Max. at 230VAC
Safety Ground Leakage Current	0.1mA Max. @ 240VAC, Full Load

Output

Output Voltage & Current	See Chart
Ripple & Noise (P-P)	1 - 2% Max., Full Load @ 90VAC Input
Over-Voltage Protection	Set at 112 - 132% of Nominal Output Voltage
Over-Current Protection	Set at 110 - 150% of Nominal Output Current
Temperature Coefficient	± 0.04% / °C Max.
Transient Response	Full Load to Half Load @ 100VAC Input: 4mS Max.

Environmental

Operating Temperature	0°C to 70°C
Derating	Derated from 100% at +50°C to 50% at +70°C
Storage Temperature	-40°C to +85°C
Relative Humidity	5% to 95% Non-Condensing

Electrical

Efficiency	Single Output: Meets CEC Level V Criteria Multi Output: N/A
No Load Power Consumption	Single Output: ≤0.3 Watts Multi Output: ≤3 Watts
Hold-Up Time	12mS Min.
Line Regulation	1% Max. at Full Load
Load Regulation	2 - 10% Max. at 230VAC
Inrush Current	14A @ 115VAC Max. 28A @ 230VAC Max. at 25°C Cold Start
Withstanding Voltage	6802 VDC from Primary to Secondary, 2121 VDC from Primary to Earth Ground
Insulation Resistance	50 MΩ Min. from Output to Ground
Mean Time Between Failure (MTBF)	100,000 Hours Min., Full Load at 25°C Ambient

Safety

EMI Requirements	Meets Conduction Limits of: (A) CISPR-11 Class B (B) FCC Part 18 Class B (C) EN55011 Class B
Safety Standards	Meets or Exceeds: (A) UR Listed (3rd Edition) (ANSI/AAMI ES 60601-1:2008) (B) TUV/T-Mark (3rd Edition) (EN60601-1:2006) (C) CE (D) CB (E) PSE
Industry Compliance	(A) Energy Efficiency Level V (B) RoHS 2





Single Output Voltage and Current Chart

Model Number**	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SM31P9XXR	3 - 5 VDC	6.66 - 4.00 A	7%	20W
SM31P9XXR	5 - 6 VDC	5.00 - 4.16 A	5%	25W
SM31P9XXR	7 - 8 VDC	3.57 - 3.12 A	5%	25W
SM31P9XXR	8 - 11 VDC	3.75 - 2.72 A	4%	30W
SM31P9XXR	12 - 13 VDC	2.50 - 2.30 A	3%	30W
SM31P9XXR	14 - 16 VDC	2.14 - 1.87 A	3%	30W
SM31P9XXR	17 - 21 VDC	1.76 - 1.42 A	3%	30W
SM31P9XXR	22 - 27 VDC	1.36 - 1.11 A	2%	30W
SM31P9XXR	28 - 33 VDC	1.07 - 0.91 A	2%	30W
SM31P9XXR	34 - 40 VDC	0.88 - 0.75 A	2%	30W

** To Determine Part Number:

Replace "XX" with Required Output Voltage (5VDC = "05", 12VDC = "12", 24VDC = "24", ect.)

Example: SM31P924R indicates a 24VDC Unit.

Note: This model is PSE approved for 3V - 21V Output.

This model is Efficiency Level V approved for 6V - 40V Output.

Dual Output Voltage and Current Chart

Model Number	Output #1 Voltage & Regulation	Output #2 Voltage & Regulation	Maximum Output Power
SM31P260R	+3.3V @ 3A 7%	+12V @ 1.3A 5%	25W
SM31P250R	+5V @ 3A 5%	+12V @ 1.3A 5%	30W
SM31P253R	+5V @ 3A 5%	+15V @ 1.0A 5%	30W
SM31P254R	+5V @ 3A 5%	+24V @ 0.7A 5%	30W
SM31P259R	+3.3V @ 3A 7%	+5V @ 1.6A 5%	17.9W
SM31P256R	+12V @ 2A 5%	-12V @ 0.5A 10%	30W
SM31P257R	+15V @ 1.5A 5%	-15V @ 0.5A 10%	30W
SM31P262R	+5V @ 2.5A 5%	-24V @ 1.0A 10%	30W

Note: This model is PSE approved for models SM31P260R, SM31P259R and SM31P257R, SM31P256R, SM31P253R, and SM31P250R.





Triple Output Voltage and Current Chart

Model Number	Output #1 Voltage & Regulation	Output #2 Voltage & Regulation	Output #3 Voltage & Regulation	Maximum Output Power
SM31P377R	+5V @ 2.5A 5%	+12V @ 1.1A 5%	-5V @ 0.5A 10%	25W
SM31P370R	+5V @ 2.5A 5%	+12V @ 1.0A 5%	-12V @ 0.5A 10%	30W
SM31P374R	+5V @ 2.5A 5%	+15V @ 1.0A 5%	-15V @ 0.5A 10%	30W
SM31P376R	+5V @ 3.0A 5%	+24V @ 1.0A 5%	-24V @ 0.5A 10%	30W
SM31P379R	+5V @ 3.0A 5%	+24V @ 1.0A 5%	-12V @ 0.5A 10%	30W
SM31P380R	+3.3V @ 3.0A 7%	+12V @ 1.1A 5%	-5V @ 0.5A 10%	25W

This model is PSE approved for model SM31P380R, SM31P377R, SM31P374R and SM31P370R.

Note: Output Connector to be specified.

Single Output:

Standard Connector is a 2.5x5.5x11mm Female Barrel Coaxial Plug, Center-Hole Positive (+).
For 3V - 11V Single Output: A 4 ft. (16AWG) cable is required to meet Efficiency Level V.
For 12V - 27V Single Output: A 6 ft. (18AWG) cable is required to meet Efficiency Level V.
For 28V - 40V Single Output: A 6 ft. (20AWG) cable is required to meet Efficiency Level V.

Multi Output:

Standard Connector is a 5-Pin Din Plug.

