

38W Series Universal Input PSA-45U Dual and Triple Output Adapter Switching Power Supply



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Features

- Universal Input from 90-264VAC
- Built-in EMI Filter-Class B
- Overvoltage and Short Circuit Protection
- Compact Size

Applications

- Microcomputers
- Desktop Peripherals
- Instruments
- Test Equipment

Safety Compliance

- cUL 1950 3rd Edition
- CE
- TUV IEC950 (EN60950)

Mechanical Characteristics

- Dimensions:
- Length: 140mm (5.51in)
 - Width: 63mm (2.48in)
 - Height: 40mm (1.58in)
 - Weight: 0.38Kgs (0.84lbs)

Output Specifications

Model	DC Output Voltage	Load		Ripple(1) P-P	Regulation	
		Min.	Max.		Line	Load
PSA-45U-201	+5V	0.3A	4.0A	50mV	±1%	±5%
	+12V	0.2A	1.5A	120mV	±1%	±5%
PSA-45U-301(2)	+5V	0.3A	3.0A	50mV	±1%	±5%
	+12V	0.2A	1.5A	120mV	±1%	±5%
	-12V	0.0A	0.3A	120mV	±1%	±5%
PSA-45U-315(2)	+5V	0.3A	2.5A	50mV	±1%	±5%
	+3.3V	0.3A	2.5A	50mV	±1%	±5%
	+12V	0.2A	1.0A	120mV	±1%	±5%

(1) Ripple and noise is measured using a 12 inch twisted pair terminated with a 10 μ f capacitor and a 0.1 μ f ceramic in parallel.

(2) Preliminary models. Coming soon.

PSA45U Characteristics

INPUT

AC Input Voltage

90VAC-264VAC

AC Frequency

47 to 63Hz

AC Input Current

1.2A(rms) 120VAC at Max. Load

0.6A(rms) 240VAC at Max. Load

Max. Inrush Current

50A Max. 120VAC at Max. Load

100A Max. 240VAC at Max. Load

OUTPUT

Hold-up Time

12m Sec. Min. at Max. Load
and 120VAC

Overvoltage Protection

Zener Diode Clamping

Overcurrent Protection

Short Circuit. Auto Restart

ENVIRONMENTAL

Humidity

Operation 5-80%

Non-Operation 5-95%

Temperature

Operation 0 to +40°C

Non-Operation -25°C to 70°C

EMI

EN 55022 Class B

FCC Class B

VCCI Class B

GENERAL

Leakage Current

3.5mA Max.

Efficiency

70% Typical at Max. Load
and 120VAC

Dielectric Withstand (Hipot)

1500VAC for 1 min., 10mA

Switching Frequency

17-55 KHz

MTBF

>100K Hrs. at Max. Load and
240VAC 50 Hz

Mating Connectors

AC: IEC320 Cord

DC: 5p DIN, 180°, female

Dimension Diagram Unit: mm (inch)

