

## DESCRIPTION

This AC-DC switching power supplies in a package of 2 x 4 inches is a compact Class-II PSU that suitable for Telecomm and general application. This PSU is capable of delivering 45 watts continuous power at convection cooling.

## FEATURES

- Class-II design
- Compact dimension 2"x4"x1.17"
- No load power consumption less than 0.3W
- EN 55032 Class B radiated emission
- Surge protection  $\pm 2$  KV diff,  $\pm 4$  KV com
- High altitude 5000 meters operation
- OVP, OPP, OTP protection

## INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	1 A (rms) for 115 VAC 0.6 A (rms) for 230 VAC
No load power consumption	$\leq 0.3$ W
Earth leakage current:	1.5 mA max. @ 264 VAC, 63 Hz

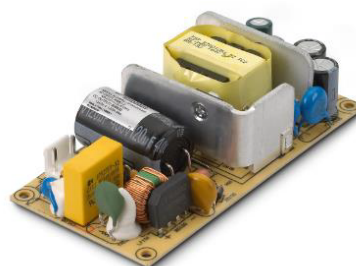
## OUTPUT SPECIFICATIONS

Output voltage/current:	See rating chart.
Total output power:	45W
Ripple and noise:	$\pm 1\%$ .
Protection:	
OVP	Latch off
OCP	Latch off
Shorted	Auto-recovery
OTP	Latch off
Temperature coefficient:	All outputs $\pm 0.04\%$ / $^{\circ}$ C maximum
Transient response:	Maximum excursion of 5% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0 $^{\circ}$ C to +70 $^{\circ}$ C
Storage temperature:	-40 $^{\circ}$ C to +85 $^{\circ}$ C
Relative humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50 $^{\circ}$ C linearly to 50% at +70 $^{\circ}$ C, applicable to convection cooling

## 45W Series



RoHS  
CE  
LVD

## SAFETY STANDARD APPROVAL

### GENERAL SPECIFICATIONS

Efficiency:	See rating chart
Power turn on time	1.0 Sec maxi.
Hold-up time:	15 mS minimum @ 100% load & 115 VAC
Line regulation:	$\pm 0.5\%$ maximum at full load
Inrush current:	50A @ 115VAC @ 25 $^{\circ}$ C cold start 90A @ 230 VAC @ 25 $^{\circ}$ C cold start
Withstand voltage:	3000 VAC from input to output,
MTBF:	400,000 hours minimum at full load at 25 $^{\circ}$ C ambient, calculated per TELCORDIA SR-332
EMC Performance	
EN55032 / EN55022	Class B conducted, class B radiated
FCC:	Class B conducted, class B radiated
VCCI:	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, class A
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, $\pm 15$ KV air and $\pm 8$ KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, $\pm 2$ KV
EN61000-4-5:	Surge, $\pm 2$ KV diff, $\pm 4$ KV com
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 3 A/m
EN61000-4-11:	Voltage dip immunity, 30% reduction for 500 ms, criteria A >95% reduction for 10 ms, criteria A >95% reduction for 5000 mS, criteria B

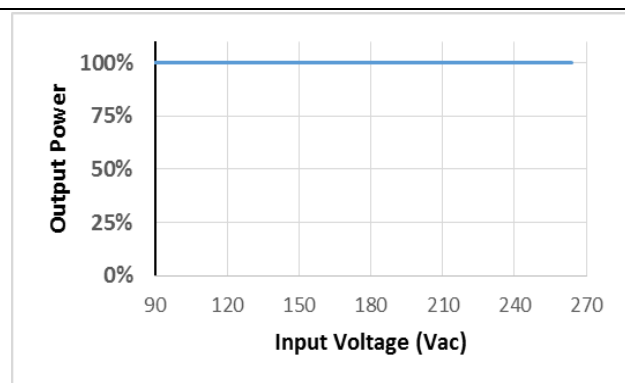
## OUTPUT VOLTAGE / CURRENT RATING CHART

Model	Output Voltage	Min. Load	Max. Current	Tolerance	Ripple & Noise <sup>(1)</sup>	Max. Power	Efficiency 115 / 230 Vac
FSP045PWVS0120	12 V	0 A	3.75 A	±3%	120 mV	45W	83 / 84%
FSP045PWVS0240	24 V	0 A	1.875 A	±3%	240 mV	45W	85 / 86%
FSP045PWVS0480	48 V	0 A	0.940 A	±3%	480 mV	45W	85 / 86%
FSP045PWVS0540	54 V	0 A	0.834 A	±3%	540 mV	45W	85 / 86%

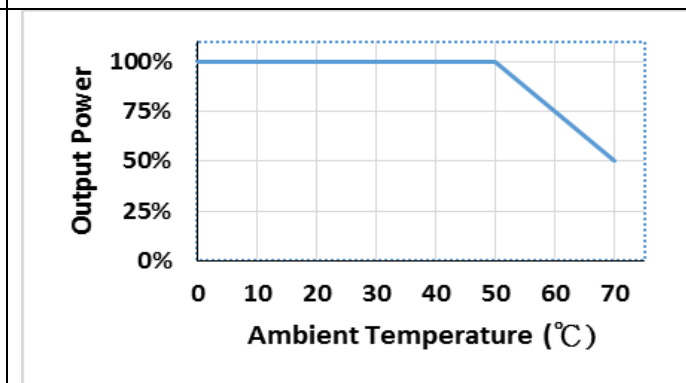
### Notes:

(1) Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 10  $\mu$ F tantalum capacitor in parallel with a 0.1  $\mu$ F ceramic capacitor across the output.

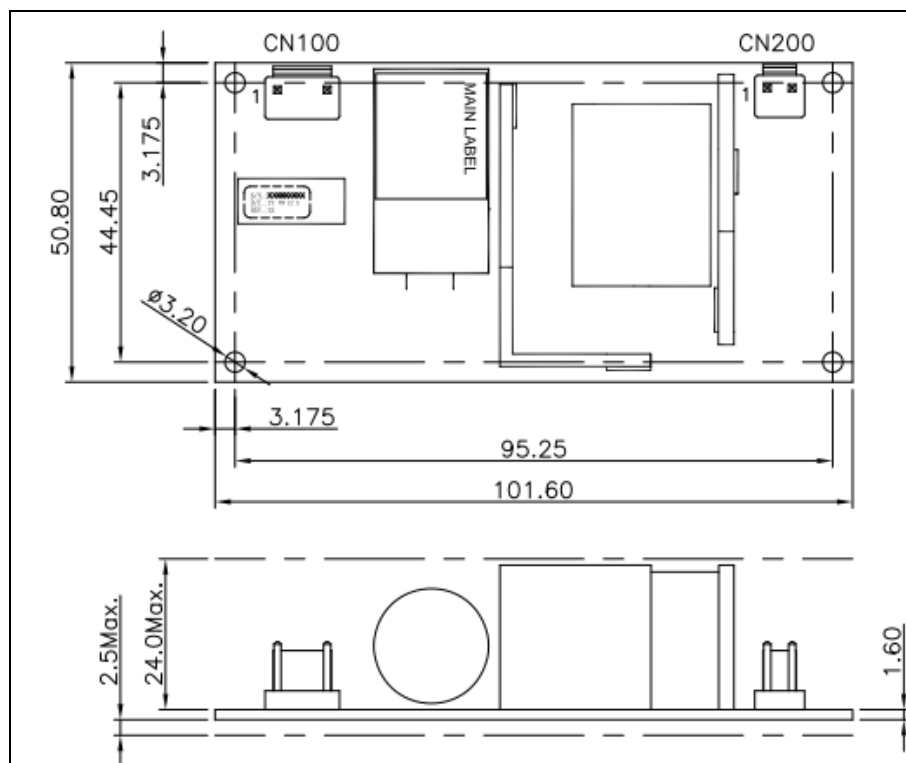
## INPUT DERATING CURVE



## OUTPUT DERATING CURVE



## MECHANICAL SPECIFICATIONS



### Note:

- Input (CN100):  
JWT A3963WV2-3P-D or EQU

Pin 1	Neutral
Pin 2	Line

- Output (CN200):  
JWT A3963WV2-2P or EQU

Pin 1	+12V
Pin 2	+12V RTN

- Dimension (L\*W\*H):  
101.6 \* 50.8 \* 28.1 mm  
4" \* 2" \* 1.106"

- Weight:  
110 grams. (0.242 lbs.) approx.