THE NEW MODELS OF JBW POWER SUPPLIES FROM KEPCO

HIGHER POWER LOWER COST

Now you don't have to give up reliability, features or support to meet your bill of material cost targets. **Kepco's Series JBW** are low cost 5V, 12V, 15V and 24V power supplies priced at about $.50 per watt, even in sample quantities. They are reliable PC card-style single output power supplies offering OEMs 75, 100 and 150 watts of d-c power. JBW feature wide range input (85-265V a-c), active PFC (Power Factor Correction) and carry the CE Mark and all safety agency recognitions, plus they are RoHS compliant. The JBW power supplies have on-board filtering meeting FCC Class B conducted emissions compliance and feature overvoltage and overcurrent protection. Full output power operation is guaranteed from -10 to + 50°C with convection cooling. (No forced air cooling is required.)

The JBW series comes with a full 1 year warranty supported by Kepco, a name known and trusted in the power supply industry for 60 years.

Please visit **www.kepcopower.com/jbw.htm** to check out the full specifications of our new JBW models as well as our lower power JBW 10, 15, 30 and 50W models and order a sample unit on-line. To see full specifications on our related multi-output MTW series of 15, 30 and 60W power supplies, visit **www.kepcopower.com/mtw.htm** or give us or your local representative a call. We look forward to hearing from you.

RoHS Compliant

JBW MODEL TABLE

MODEL	OUTPUT Volts	SETTING TOLERANCE	ADJUSTMENT RANGE Volts	OVP RANGE Volts	OUTPUT CURRENT (Max) Amps	CURRENT LIMIT Amps	SWITCHING FREQUENCY RIPPLE mV p-p	NOISE(1) mV p-p	EFFICIENCY (%) 100V a-c	EFFICIENCY (%) 240V a-c
75 WATT MODELS										
JBW 5-15K	5	±0.25V	4.5-5.5	5.75-6.9	15.0	15.8	80	120	75	79
JBW 12-6.3K	12	±0.6V	10.8-13.2	13.8-16.8	6.3	6.6	120	150	78	81
JBW 15-5.0K	15	±0.75V	13.5-16.5	17.2-21.0	5.0	5.2	120	150	79	81
JBW 24-3.2K	24	±1.2V	21.6-26.4	27.6-33.6	3.2(2)	4.4	120	150	82	84
100 WATT MODELS										
JBW 5-20K	5	±0.25V	4.5-5.5	5.75-6.9	20.0	21.0	80	120	78	80
JBW 12-8.5K	12	±0.6V	10.8-13.2	13.8-16.8	8.5	10.6	120	150	80	82
JBW 15-6.7K	15	±0.75V	13.5-16.5	17.2-21.0	6.7	8.38	120	150	80	82
JBW 24-4.3K	24	±1.2V	21.6-26.4	27.6-33.6	4.3(3)	5.38	120	150	82	85
150 WATT MODELS										
JBW 5-30K	5	±0.25V	4.5-5.5	5.75-6.9	30.0	31.5	80	120	78	80
JBW 12-12K	12	±0.6V	10.8-13.2	13.8-16.8	12.5	15.7	120	150	81	83
JBW 15-10K	15	±0.75V	13.5-16.5	17.2-21.0	10.0	12.5	120	150	81	83
JBW 24-6.3K	24	±1.2V	21.6-26.4	27.6-33.6	6.3(4)	7.87	120	150	82	84

(1) 0 to 100% load, 0 to 50°C, tested with 100µF electrolytic and 0.1µF film capacitors across the load, connected to the power supply via 5.9 inches (150mm) wires.
(2) 4.2A peak, t≤ 10 seconds. (3) 5.0A peak, t≤ 10 seconds. (4) 7.5A peak, t≤ 10 seconds.

CE This KEPCO product is backed by a firm 1-YEAR WARRANTY

AN ISO 9001 COMPANY
KEPCO®
THE POWER SUPPLIER™
SINCE 1946

60 YEARS OF KEPCO POWER SUPPLIES

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FEATURES

- INPUT VOLTAGE:
  85-265V a-c (0 to 100% load, -10 to 60°C); 120-370V d-c.
- INPUT SOURCE FREQUENCY:
  Nominal 50/60 Hz; Range 47-66 Hz. (Above 66 Hz to 440 Hz the leakage current exceeds the VDE safety specification limit.)
- INPUT PROTECTION: Input Fuse value 5A, 250V.
- POWER FACTOR: 0.99 typ. at 100V a-c, 0.95 typ. at 240V a-c.
- LOAD CAPACITANCE: acceptable output capacitor 30,000µF max.
- STABILIZATION:
  Source Effect: (85 to 265V a-c) 0.4% max.
  Load Effect: measured at sensing terminals (0% to 100% load change) 0.8% max.
  Temperature Effect: (-10 to 50°C) 1.0% max.
  Combined Effect: 2.0% max. (4% typical for overshoot at start-up).
  Time Effect or Drift: (1/2 to 8 hr. at 25°C) 0.4% max.
- OVERVOLTAGE PROTECTION (OVP): Fixed, factory set. See Model Table. Latching will occur.
- OVERCURRENT: Square type, output voltage returns to rated level upon removal of cause of malfunction (long term overcurrent could damage units).
- OPERATING TEMPERATURE: -10° to 60°C (start up at -20°C. Cooling by natural convection. See Derating Plots.
- WITHSTAND VOLTAGE: (at 5 to 35°C ambient, 45 to 85% relative humidity, cutout current 10 mA):
  Between input and output terminals, 3000V a-c for 1 minute.
  Between input terminals and ground, 2000V a-c for 1 minute.
  Between output terminals and ground, 500V a-c for 1 minute.
- SAFETY: UL 60950-1.c and TUV Rheinland EN60950-1 (ambient temp 50°C max.) CE marked per the Low Voltage Directive (LVD), EN60950.
- EMC - EMISSIONS:
  Conducted Noise 0.15MHz to 30MHz; FCC Class B, VCCI-B, EN55011-B, EN55022-B.
  Input Harmonics (on a-c mains) 0 to 2KHz: EN 61000-3-2.
- EMC - IMMUNITY: Designed to meet EN 50082-2.
  ESD: EN 61000-4-2 Level 4, normal operation.
  Radiated Field Noise: EN 61000-4-3 Level 3, normal operation.
  Electrical Fast Transient/Burst (EFT): EN 61000-4-4 Level 3, normal operation.
  Surge: EN 61000-4-5 Level 4, no damage.
  Conducted Noise: EN 61000-4-6 Level 3, normal operation.
  Power Frequency Magnetic Field: EN 61000-4-8 Level 4, normal operation.
  Interruptions and Voltage Dips, Short Variations: EN 61000-4-11, normal operation.

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DERATING PLOTS AND MOUNTING DIRECTIONS

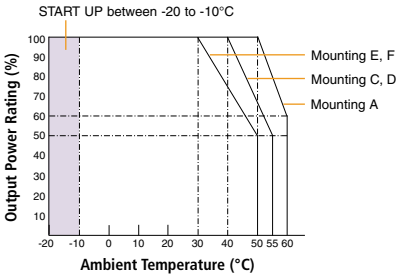


FIGURE 1
Derating Curve: 75W and 100W Models

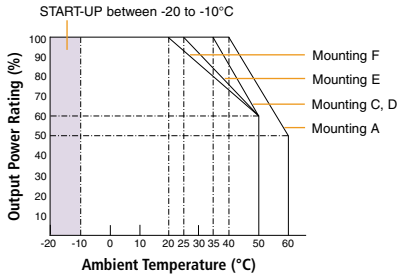
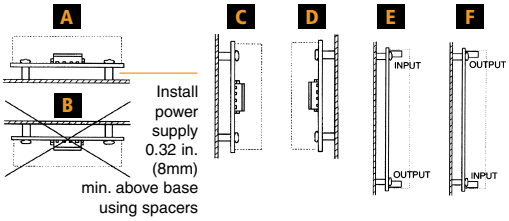


FIGURE 2
Derating Curve: 150W Models



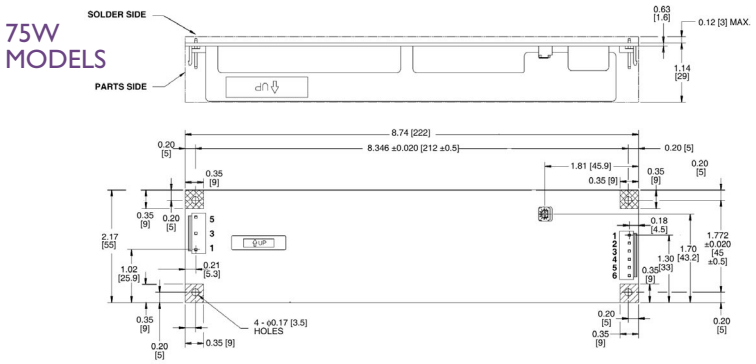
NOTES

1. **Method A (standard) is recommended, apply derating curve per figures 1 & 2.**
2. **Method B is not allowed (inadequate cooling).**
3. **For Methods C, D, E and F, apply derating curve per figures 1 & 2.**

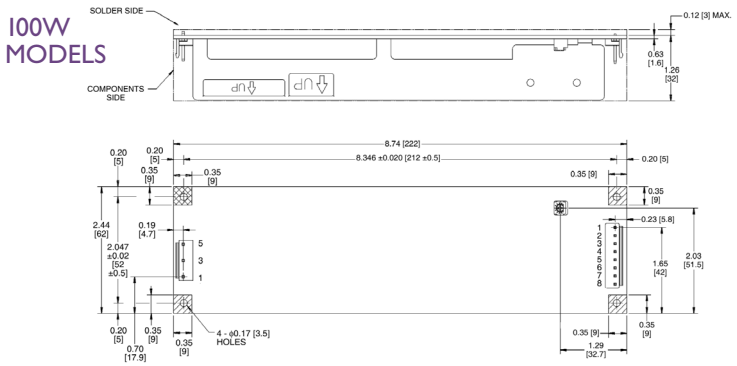
OUTLINE DIMENSIONAL DRAWINGS

Fractional dimensions in light face type are in inches, **dimensions in parentheses are in millimeters.**

75W MODELS



100W MODELS



150W MODELS