

**Open Frame Type Switching Power Supply**

**150Watts Medical and ITE Single Output**

**FEATURES**

- Both ITE & Medical Approvals.
- High Power density, 150W in 3" x 2" footprint.
- Medical applications Protection: Means of Patient Protection ( MOPP).
- Altitude during operation: ITE & Medical Below 5000m.
- Meet Medical BF rated.
- Medical safety approved Class I and Class II.
- Main output Power ON LED indicators.
- No load Power consumption < 150mW
- 3 year warranty

**ELECTRICAL SPECIFICATIONS**

- Input range : 90 - 264VAC
- Frequency : 47 - 63Hz.
- Power Factor : > 0.95 @115VAC; > 0.90 @230VAC @full load.
- Inrush current : <50A peak @115VAC; <100A peak @230VAC cold start @25°C.
- Input current (rms) : 2A @115VAC; 1A @230VAC max.
- Efficiency : > 92% typical @full load, 230VAC.
- Touch current < 100uA @264VAC.
- Maximum output power : 150Watts forced air, 100Watts convection cooling.
- Hold-up time : > 10ms typical @full load, 115VAC.
- Short circuit protection : Auto-recovery.
- Over power protection : 105% to 160% maximum rating, Auto-recovery.
- Over voltage protection : Latching type. AC Recycle.

**ENVIRONMENTAL**

- Operating temperature : -20 to +70°C (Refer to derating curve).
- Storage temperature: -20°C to +85°C.
- Humidity: Non-condensing 10% to 95%.
- MTBF : > 400,000 hours @full load and 25°C ambient temperature per Telcordia(Bellcore TR-332).



**RoHS compliant**

Dimension : L76.2 × W50.8 × H31.0 mm ( 3" x 2" x 1.22" )  
 Open frame type Weight : 0.15 kgs. (0.34 lbs. )  
 Dimension : L90.6 × W64.0 × H38.0 mm (3.57" x 2.52" x 1.50")  
 U-Channel type Weight : 0.20 kgs. (0.44 lbs. )  
 Dimension : L90.6 × W64.0 × H39.2 mm (3.57" x 2.52" x 1.55")  
 Enclosed type Weight : 0.21 kgs. (0.47 lbs. )

**SAFETY STANDARDS**

UL60601-1 3.1rd Edition  
 TUV EN60601-1 3.1rd Edition  
 CB IEC60601-1 3.1rd Edition  
 UL/c-UL UL62368-1  
 TUV EN62368-1  
 CB IEC62368-1

**EMC STANDARDS**

EN60601-1-2  
 EN55011 Class B  
 EN55032 Class B  
 EN55024  
 FCC Part 15 Class B  
 FCC Part 18 Class B  
 CE

**DC OUTPUT & FEATURES**

Model No.	Output Voltage	Maximum Load		Output Regulation	Ripple Noise	Convection total power	10CFM Forced air total power	Efficiency Level
		Convection	10 CFM Forced Air					
PW-150B-1Y120CSBX	+12V	8.34A	12.50A	±3%	120mV	100W	150W	VI
PW-150B-1Y150CSBX	+15V	6.67A	10.00A	±3%	150mV	100W	150W	VI
PW-150B-1Y180CSBX	+18V	5.56A	8.34A	±3%	180mV	100W	150W	VI
PW-150B-1Y240CSBX	+24V	4.17A	6.25A	±3%	240mV	100W	150W	VI
PW-150B-1Y280CSBX	+28V	3.58A	5.36A	±3%	280mV	100W	150W	VI
PW-150B-1Y360CSBX	+36V	2.78A	4.17A	±2%	360mV	100W	150W	VI
PW-150B-1Y480CSBX	+48V	2.09A	3.13A	±2%	360mV	100W	150W	VI
PW-150B-1Y540CSBX	+54V	1.86A	2.78A	±2%	360mV	100W	150W	VI

**Note:**

1. All models have total power 100W Max. convection or 150W Max. forced air cooling.
2. Ripple and noise are measured at oscilloscope 20MHz bandwidth by a 10uF electrolytic capacitor and a 0.1uF ceramic capacitor in parallel at output connector.
3. Model option : C = B, open frame type C = U, U-channel C = E, Enclosed
4. Safety option: S = M (Medical & ITE) S = I (ITE only)
5. Output connector option: B=J (JST VH type) B = T (Eurostyle P.C.B. Terminal Block)
6. Medical Class I & Class II option code: X = Blank (Class I) X = 2 (Class II)

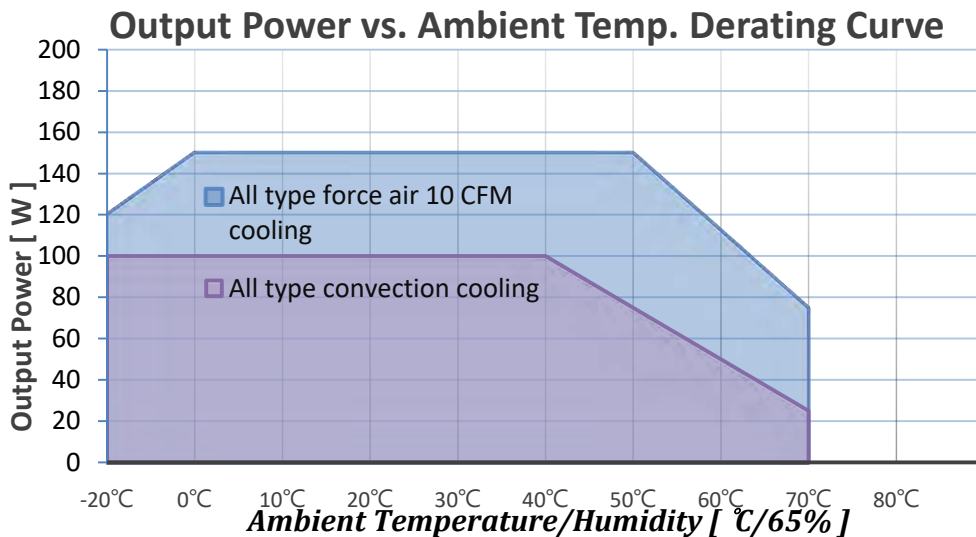


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**ENVIRONMENTAL**

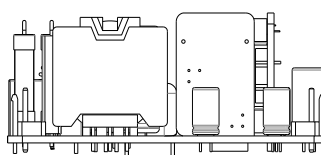
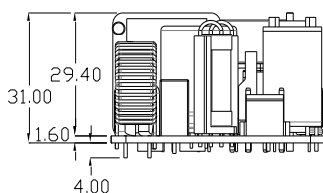
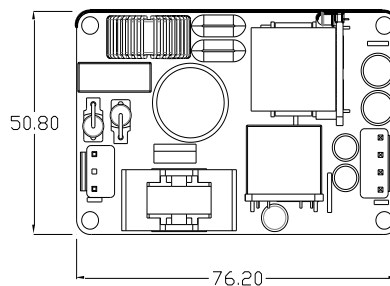
**DERATING CURVE**



Convection cooling Derate linearly 2.5% per °C from 41 to 70°C  
 10CFM forced air cooling Derate linearly 2.5% per °C from 51 to 70°C  
 10CFM forced air cooling Derate linearly 1.0% per °C from 0 to -20°C

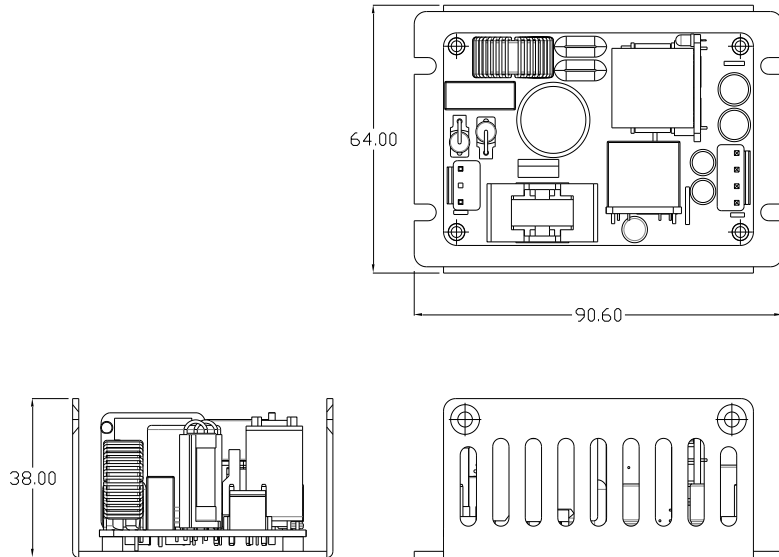
**MECHANICAL SPECIFICATION**

- Open frame type PW-150B-1YXXXBSBX series 76.2 \* 50.8 \* 31.0 mm ±0.5mm
- U-Channel type PW-150B-1YXXXUSBX series 90.6 \* 64.0 \* 38.0 mm ±0.5mm
- Enclosed type PW-150B-1YXXXESBX series 90.6 \* 64.0 \* 39.2 mm ±0.5mm
  
- Open frame type PW-150B-1YXXXBSBX series

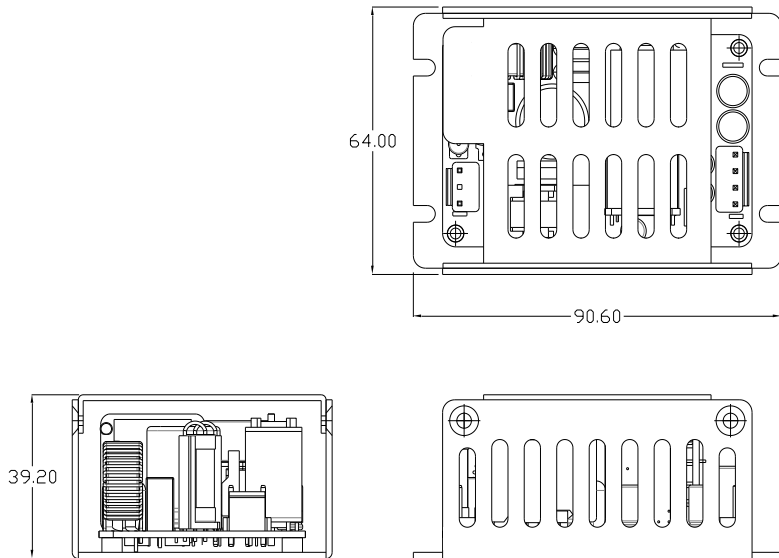


**MECHANICAL SPECIFICATION**

U-Channel type PW-150B-1YXXXUSBX series



Enclosed type PW-150B-1YXXXESBX series

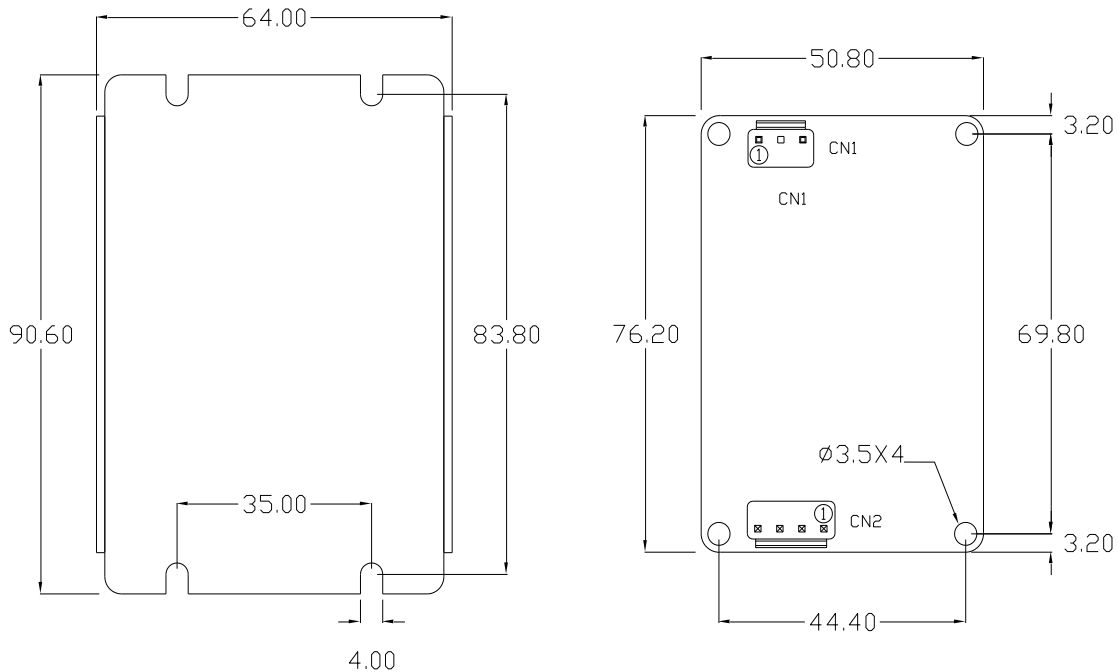


- ※ For Class I applications, 4 Positions of mounting holes must be securely connected to protective earth ground in the final system assembly for optimum SAFETY and EMI performance.
- ※ For Class II applications, 4 Positions of mounting holes can't be connected together, All mounting holes should be fixed to the Chassis by insulated spacer.
- ※ PW-150B-1YXXX series can add an additional clamp core (KING CORE:KCF-100-B) 1 turn on AC input to get better EMI performance when test condition is Class II.



**MECHANICAL SPECIFICATION**

Outline drawing



**CN1 : Input Connector ( pitch : 3.96mm )**

JST B3P-VH-B or equivalent

Mates with JST VHR-3N or equivalent

Pin #	Signal
1	AC Line
2	AC Neutral

**CN2 : Main Output Connector ( pitch : 3.96mm / 3.5mm)**

JST B4P-VH-B or equivalent

Mates with JST VHR-4N or equivalent

Pin #	Signal
1	GND
2	GND
3	+Vout
4	+Vout

Eurostyle P.C.B. 3.5mm Terminal Block

16-24 AWG (1.5mm<sup>2</sup>) Wire range

Pin #	Signal
1	GND
2	GND
3	+Vout
4	+Vout

## Want to know more?

For sales, technical support or additional information please get in touch with our team of experts.

### ADDITIONAL SERVICES

## We provide an end-to-end service

From the initial consultation and sourcing unique components to supplying bespoke solutions including a full design and build process.

### Bespoke services

Customised and curated technology solutions across the full range of Conexa Tech products

### Sourcing

A full suite of electronics, cable, and mechanical sourcing capabilities

### Design & Build

Development and manufacturing services

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