

# IBU151 SERIES

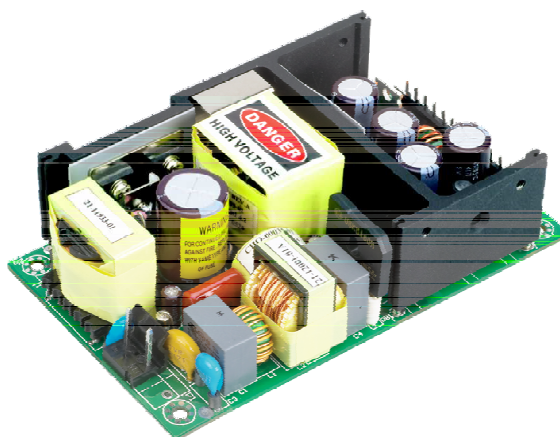
## 150W Open Frame Switching Power Supplies For Industrial Equipment

### Description:

The IBU151 series of compact, open frame constructed, AC/DC switching mode power supplies provide 150 Watts of continuous output power. They are suited for use in based systems, portable equipments and many other applications. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1:2<sup>nd</sup> Edition) ,TUV/Bauart(EN 60950-1:2<sup>nd</sup> Edition) and new CE requirements. All units are 100% burned in and tested.

### Features:

- Wide Operating Voltage 90 to 260 VAC,47 to 63 Hz
- Internal EMI filter
- Single Output
- Input connector mates with Molex housing 09-52-4034 and Molex 2478 series crimp terminal
- Output connector mates with Molex housing09-51-4134 and Molex 2478 series crimp terminal
- Active Power Factor Correction
- Power Fail Detect(Optional)
- Class I
- Synchronous Rectification
- Operating temperature -20~70°C
- 3 year warranty



### Safety Approvals :



### Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Safety Approvals Input Voltage Range		100		240	VAC
	Operate Voltage Range		90		260	VAC
fin	Input Frequency		47		63	Hz
PF	Power Factor Correction	Io=Full load, Vin=90~260VAC	0.95	0.97	1.0	
Po	Output Power Range	Vin=90 to 260 VAC	0		150	W
Vo	Output Voltage Range		See rating Chart			V
Io	Output Current Range		See rating Chart			A
Iil	Input Current (Low Line)	Io=Full load, Vin=115VAC			2.0	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.8	A
Irl	Low Line Inrush Current	Io=Full load, 25°C,Cool start, Vin=115VAC		48	54	A
Irh	High Line Inrush Current	Io=Full load, 25°C,Cool start, Vin=230VAC		96	108	A
Eff	Efficiency	Io=Full load, Vin=230VAC	See rating Chart			%
REG-i	Line Regulation	Io=Full load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	5	%
OVP	Over Voltage Protection		112		132	%
OCP	Over Current Protection		110		150	%
Ttr	Time of Transient Response	Io=Full load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full load, Vin=110VAC	16			mS
Ts	Start Up Time	Io=Full load, Vin=100VAC	0.3	1	2	S
Vp-p	Ripple & Noise (Peak to Peak)	Io=Full load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full load, Vin=240VAC		0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C
Pno	No-Load Power Consumption	No load, Vin=230VAC	See rating Chart			W

### Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		-20	50	70	°C
Tstg	Storage Temperature		-40		85	°C
Ho	Operating Humidity		0		95	%
Hr	Storage Humidity		0		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
Pd	Derate linearly from 100% load at 50°C to 50% load at 70°C					

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Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
Ris	Isolation Resistance	Test Voltage=500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=120VAC	B			CLASS

### Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Efficiency (min.)	Maximum Output Power	Pno (max.)
IBU151-104	9 VDC	16.0 A	5%	84.5%	144W	3W
IBU151-105	12 VDC	12.5 A	5%	85%	150W	3W
IBU151-106	15 VDC	10.0 A	5%	85.5%	150W	3W
IBU151-107	18 VDC	8.33 A	4%	85.5%	150W	3W
IBU151-108	24 VDC	6.25 A	3%	86%	150W	3W
IBU151-109	30 VDC	5.00 A	2%	87%	150W	3W
IBU151-110	36 VDC	4.17 A	2%	88%	150W	3.5W
IBU151-111	48 VDC	3.13 A	2%	88%	150W	3.5W

### PIN CHART

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13
MODEL	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN	(Optional) PFD
IBU151-1XX	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN	PFD

### Note:

1. Dimensions are shown in inches or mm .
2. Weight: 390gs approx.
3. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.

### Mechanical Specifications :

