

# IBU 100 SERIES

## 100W Open Frame Switching Power Supplies For Industrial Equipment

### Description:

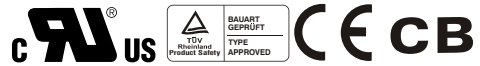
The IBU100 series of compact, open frame constructed, AC/DC switching mode power supplies provide 100 Watts of continuous output power. They are suited for use in based systems, portable equipments and many other applications. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL(UL 60950-1),TUV/Bauart(EN 60950-1) and new CE requirements. All units are 100% burned in and tested.

### Features:

- Wide Input Voltage 90 to 260 VAC,47 to 63 Hz
- Internal EMI filter
- Single Output
- Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal
- Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal
- Input Surge Current, Over Voltage and Over Load protection
- Over Voltage Protection (Crowbar Design)
- Active Power Factor Correction
- Size: 3"x5"x1.18"
- Class I
- Operating temperature -20~70°C
- 3 year warranty



### Safety Approvals :



### Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	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		100	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			1.0	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		44	50	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		85	100	A
Eff	Efficiency	Io=Full load, Vin=230VAC	70	80	85	%
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)	Full load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full load, Vin=240VAC		0.4	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

\* Note: The Ripple & Noise which is under 3.3VDC at 2% max

### Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		-20		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		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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### Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
V <sub>ps</sub>	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
V <sub>pg</sub>	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
R <sub>is</sub>	Isolation Resistance	Test Voltage=500VDC	50			M Ω
CISPR	EMI requirements for CISPR-22	V <sub>in</sub> =220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	V <sub>in</sub> =110VAC	B			CLASS

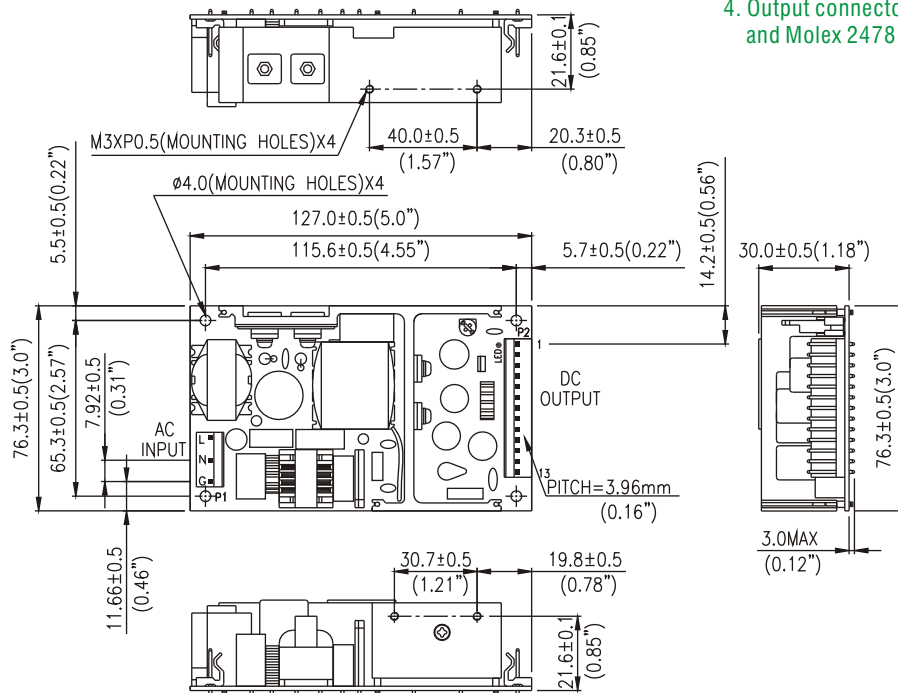
### Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
IBU100-101	3 ~ 5 VDC	18.00 ~ 10.80 A	5%	54W
IBU100-102	5 ~ 6 VDC	14.00 ~ 11.66 A	5%	70W
IBU100-103	6 ~ 9 VDC	13.33 ~ 8.88 A	5%	80W
IBU100-104	9 ~ 11 VDC	11.11 ~ 9.09 A	5%	100W
IBU100-105	11 ~ 13 VDC	9.09 ~ 7.69 A	3%	100W
IBU100-106	13 ~ 16 VDC	7.69 ~ 6.25 A	3%	100W
IBU100-107	16 ~ 21 VDC	6.25 ~ 4.76 A	3%	100W
IBU100-108	21 ~ 27 VDC	4.76 ~ 3.70 A	2%	100W
IBU100-109	27 ~ 33 VDC	3.70 ~ 3.03 A	2%	100W
IBU100-110	33 ~ 40 VDC	3.03 ~ 2.50 A	2%	100W
IBU100-111	40 ~ 50 VDC	2.50 ~ 2.00 A	2%	100W

### PIN CHART

MODEL	PIN	1	2	3	4	5	6	7	8	9	10	11	12	13
IBU100-1XX-13PIN	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN	RTN	N/C

### Mechanical Specifications :



### Note:

1. Dimensions are shown in inches or mm.
2. Weight: 345gs approx.
3. Input connector mates with Molex housing 09-50-3051 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3131 and Molex 2478 series crimp terminal.