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SBU151 SERIES

150W Open Frame Switching Power Supplies For I.T.E.

Description:

The SBU151 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 disc drive systems, microprocess or 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 264 VAC,47 to 63 Hz
- Internal EMI filter
- Single Output
- Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal
- Output connector mates with Molex housing09-50-3131 and Molex 2478 series crimp terminal
- Output Voltage Available From 9 VDC Thru 48 VDC
- Input Surge Current and Over Load protection
- Over Voltage Protection (Crowbar Design)
- Power Factor Correction
- Power Fail Detect(Optional)
- Class I
- Synchronous Rectification
- 2 year warranty

Safety Approvals :

c UL us TÜV Rheinland Product Safety BAUART GEPRÜFT TYPE APPROVED CE CB

Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	90		264	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 264 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		58	63	A
Eff	Efficiency	Io=Full load, Vin=230VAC	85	88	90	%
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		0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1			MHrs
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
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=110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output) :

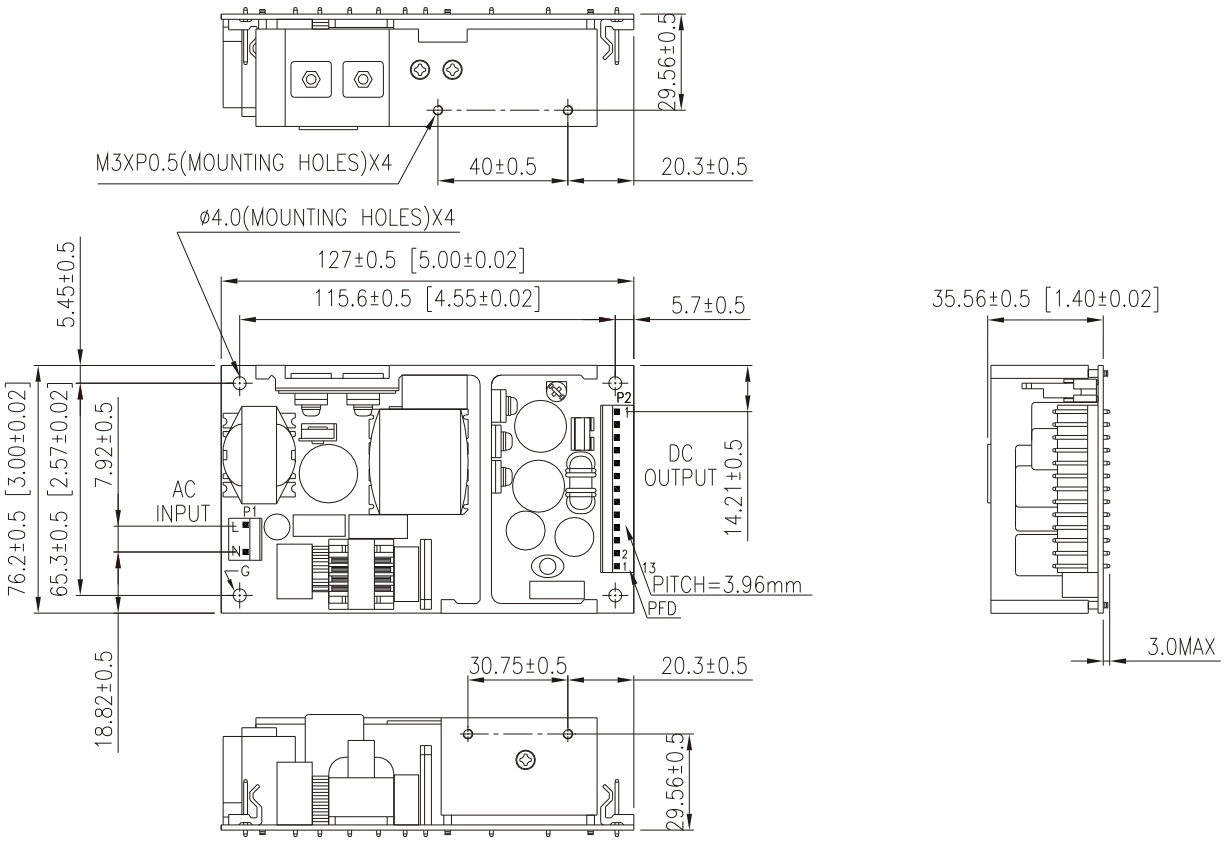
Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SBU151-104	9 VDC	16.0 A	5%	144W
SBU151-105	12 VDC	12.5 A	5%	150W
SBU151-106	15 VDC	10.0 A	5%	150W
SBU151-107	18 VDC	8.33 A	4%	150W
SBU151-108	24 VDC	6.25 A	3%	150W
SBU151-109	30 VDC	5.00 A	2%	150W
SBU151-110	36 VDC	4.17 A	2%	150W
SBU151-111	48 VDC	3.13 A	2%	150W

PIN CHART

MODEL \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13 (Optional)
SBU151-1XX	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 :



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