

SUU150 Power Supply



Features:

- 150 Watt
- Wide operating 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 series crimp terminal
- Input surge current, over voltage and over load protection
- Over voltage protection (Crowbar design)
- Active power factor correction
- Class I
- 2 year warranty

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 ~ 260VAC	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	83	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	%
Iik	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	50	70	°C
Tstg	Storage temperature	-	-40	-	85	°C
Ho	Operating humidity	-	0	-	95	%
Hr	Storage humidity	-	0	-	75	%
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	-	-	-	-	-

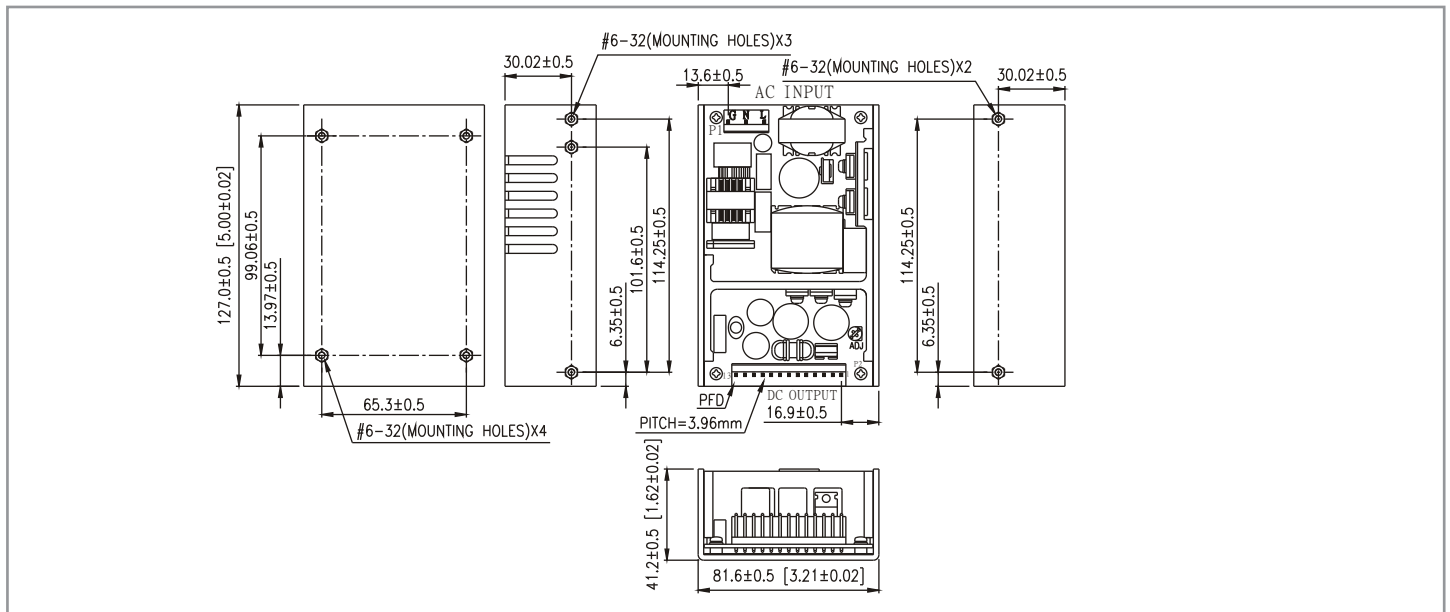
Safety Specifications

SYM.	PARAMETER	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
V _{ps}	Dielectric withstanding voltage for primary to secondary	Primary to secondary	4242	-	-	VDC
V _{pg}	Dielectric withstanding voltage for primary to ground	Primary to ground	2121			VDC
R _{is}	Isolation resistance	Test voltage = 500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	V _{in} = 220VAC	B			Class
FCC	EMI requirements for FCC Part-15	V _{in} = 110VAC	B			Class

Output voltage and current rating chart (Single output)

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAXIMUM OUTPUT CURRENT
SUU150-104	9VDC	16.0A	5%	144W
SUU150-105	12VDC	12.5A	5%	150W
SUU150-106	15VDC	10.0A	5%	150W
SUU150-107	18VDC	8.33A	4%	150W
SUU150-108	24VDC	6.25A	3%	150W
SUU150-109	30VDC	5.00A	2%	150W
SUU150-110	36VDC	4.17A	2%	150W
SUU150-111	48VDC	3.13A	2%	150W

SUU150 MECHANICAL SPECIFICATIONS



Note: 1. Dimensions are shown in inches or mm. 2. Weight : 476 ~ 582gs 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

Data sheets are subject to change without notice
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