

SUU100 Power Supply



Features:

- 100 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
f _{in}	Input frequency	-	47	-	63	Hz
PF	Power factor correction	I _o = Full load, V _{in} = 90~260VAC	0.95	0.97	1.0	-
P _o	Output power range	V _{in} = 90 ~ 260VAC	0	-	100	W
V _o	Output voltage range	-	See rating chart			V
I _o	Output current range	-	See rating chart			A
I _{il}	Input current (Low line)	I _o = Full load, V _{in} = 115VAC	-	-	1.6	A
I _{ih}	Input current (High line)	I _o = Full load, V _{in} = 230VAC	-	-	0.8	A
I _{rl}	Low line inrush current	I _o = Full load, 25°C, cool start, V _{in} = 115VAC	-	44	50	A
I _{rh}	High line inrush current	I _o = Full load, 25°C, cool start, V _{in} = 230VAC	-	88	100	A
Eff	Efficiency	I _o = Full load, V _{in} = 230VAC	70	80	85	%
REG-i	Line regulation	I _o = Full load	-	0.5	1	%
REG-o	Load regulation	V _{in} = 230VAC	-	3	5	%
OVP	Over voltage protection	-	112	-	132	%
OCP	Over current protection	-	110	-	150	%
T _{tr}	Time of transient response	I _o = Full load to half load, V _{in} = 100VAC	-	-	4	mS
T _{hold}	Hold-up time	I _o = Full load, V _{in} = 110VAC	16	-	-	mS
T _s	Start up time	I _o = Full load, V _{in} = 100VAC	-	-	2	S
V _{p-p}	Ripple & Noise (Peak to peak)	Full load, V _{in} = 90VAC	-	0.5	1	%
I _{lk}	Safety ground leakage current	I _o = Full load, V _{in} = 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
T _{oper}	Operating temperature	-	0	50	70	°C
T _{stg}	Storage temperature	-	-40	-	85	°C
H _o	Operating humidity	-	0	-	95	%
H _r	Storage humidity	-	0	-	75	%
MTBF	Operating temperature at 25°C, calculated per MIL-HDBK-217F	-	0.1M	-	-	Hrs
P _d	Derate linearly from 100% load at 50°C to 50% load at 70°C	-	-	-	-	-

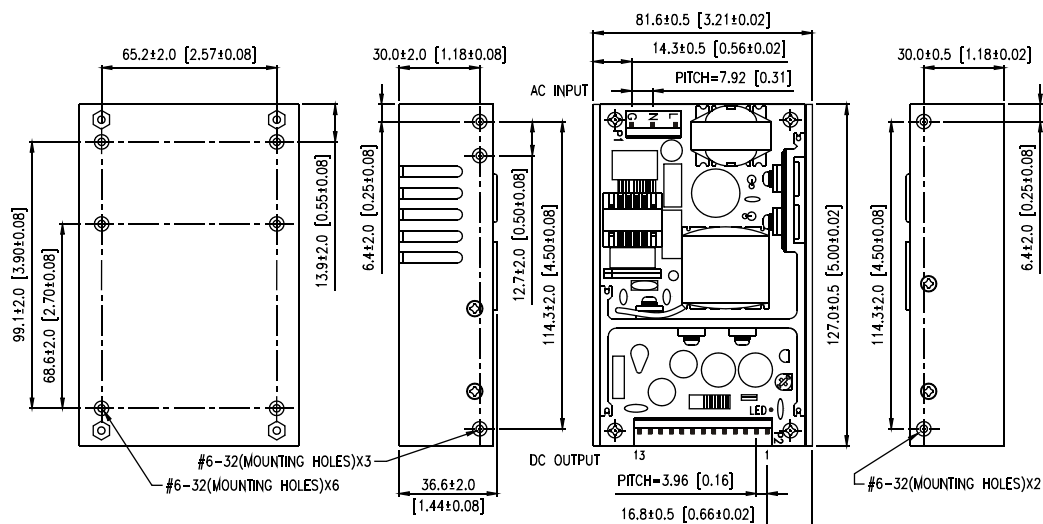
Safety Specifications

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
SUU100-101	3 ~ 5VDC	18.00 ~ 10.80A	5%	54W
SUU100-102	5 ~ 6VDC	14.00 ~ 11.66A	5%	70W
SUU100-103	6 ~ 9VDC	13.33 ~ 8.88A	5%	80W
SUU100-104	9 ~ 11VDC	11.11 ~ 9.09A	5%	100W
SUU100-105	11 ~ 13VDC	9.09 ~ 7.69A	3%	100W
SUU100-106	13 ~ 16VDC	7.69 ~ 6.25A	3%	100W
SUU100-107	16 ~ 21VDC	6.25 ~ 4.76A	3%	100W
SUU100-108	21 ~ 27VDC	4.76 ~ 3.70A	2%	100W
SUU100-109	27 ~ 33VDC	3.70 ~ 3.03A	2%	100W
SUU100-110	33 ~ 40VDC	3.03 ~ 2.50A	2%	100W
SUU100-111	40 ~ 50VDC	2.50 ~ 2.00A	2%	100W

SUU100 MECHANICAL SPECIFICATIONS



Note: 1. Dimensions are shown in inches or mm. 2. Weight : 475gs 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