

SUU120 Power Supply



Features:

- 120 Watt
- Wide operating voltage 90 to 260 VAC, 47 to 63 Hz
- Internal EMI filter
- Single to triple 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	-	120	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	-	-	1.7	A
I _{ih}	Input current (High line)	I _o = Full load, V _{in} = 230VAC	-	-	1.0	A
I _{rl}	Low line inrush current	I _o = Full load, 25°C, cool start, V _{in} = 115VAC	-	30	37	A
I _{rh}	High line inrush current	I _o = Full load, 25°C, cool start, V _{in} = 230VAC	-	65	75	A
Eff	Efficiency	I _o = Full load, V _{in} = 230VAC	70	80	88	%
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	0.3	1	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	-	0.4	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

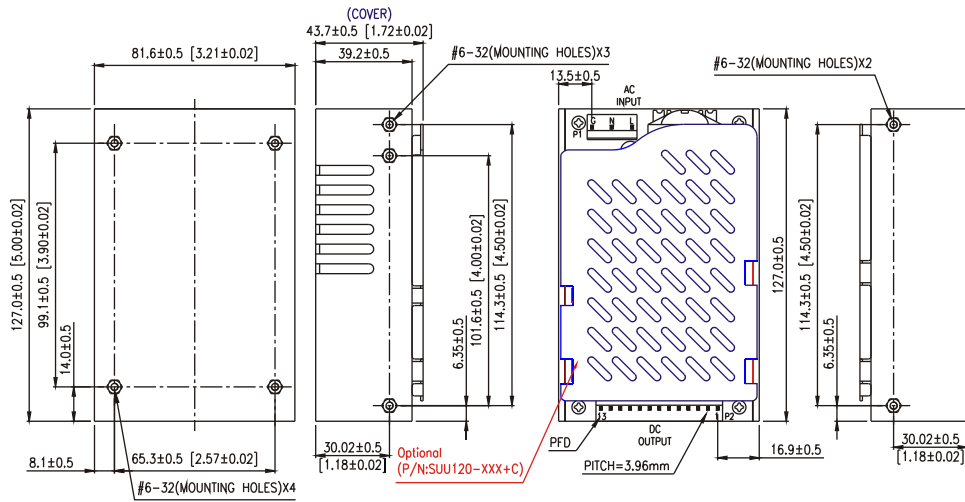
Output voltage and current rating chart (Single Output)

MODEL NUMBER	OUTPUT VOLTAGE	OUTPUT CURRENT	TOTAL REGULATION	MAXIMUM OUTPUT CURRENT
SUU120-101	3 ~ 5VDC	22.00 ~ 20.00A	5%	100W
SUU120-102	5 ~ 6VDC	22.00 ~ 18.33A	5%	110W
SUU120-103	6 ~ 9VDC	19.16 ~ 12.77A	5%	115W
SUU120-104	9 ~ 11VDC	13.33 ~ 10.90A	4%	120W
SUU120-105	11 ~ 13VDC	10.90 ~ 9.23A	3%	120W
SUU120-106	13 ~ 16VDC	9.23 ~ 7.50A	3%	120W
SUU120-107	16 ~ 21VDC	7.50 ~ 5.71A	3%	120W
SUU120-108	21 ~ 27VDC	5.71 ~ 4.44A	2%	120W
SUU120-109	27 ~ 33VDC	4.44 ~ 3.63A	2%	120W
SUU120-110	33 ~ 40VDC	3.63 ~ 3.00A	2%	120W
SUU120-111	40 ~ 50VDC	3.00 ~ 2.40A	2%	120W

Output voltage and current rating chart (Multi Output)

MODEL NUMBER	OUTPUT #1				OUTPUT #2				OUTPUT #3				MAXIMUM OUTPUT POWER
	V _{onom}	I _{omin}	I _{omax}	Reg _{max}	V _{onom}	I _{omin}	I _{omax}	Reg _{max}	V _{onom}	I _{omin}	I _{omax}	Reg _{max}	
SUU120-200	+3.3V	1.5A	15A	5%	+12V	0.6A	6A	5%	-	-	-	-	120W
SUU120-201	+5V	1.5A	15A	5%	+12V	0.8A	6A	5%	-	-	-	-	120W
SUU120-202	+5V	1.5A	15A	5%	+15V	0.6A	6A	5%	-	-	-	-	120W
SUU120-203	+3.3V	1.5A	15A	5%	+24V	0.4A	3.5A	5%	-	-	-	-	120W
SUU120-204	+5V	1.5A	15A	5%	+5V	0.8A	6A	5%	-	-	-	-	79.5W
SUU120-215	+28V	1.5A	15A	5%	-	-	-	-	-24V	0.2A	2A	5%	120W
SUU120-219	+3.3V	0.4A	3.92A	5%	-	-	-	-	+5V	0A	2A	5%	120W
SUU120-300	+3.3V	1.5A	15A	5%	+12V	0.6A	6A	5%	-12V	0A	0.8A	5%	120W
SUU120-300-1	+5V	1.5A	15A	5%	+12V	0.6A	6A	5%	+12V	0A	0.8A	5%	120W
SUU120-301	+5V	1.5A	15A	5%	+12V	0.8A	6A	5%	-5V	0A	0.8A	5%	120W
SUU120-301-1	+5V	1.5A	15A	5%	+12V	0.8A	6A	5%	+5V	0A	0.8A	5%	120W
SUU120-302	+5V	1.5A	15A	5%	+12V	0.8A	6A	5%	-12V	0A	0.8A	5%	120W
SUU120-302-1	+5V	1.5A	15A	5%	+12V	0.8A	6A	5%	+12V	0A	0.8A	5%	120W
SUU120-303	+5V	1.5A	15A	5%	+15V	1.0A	6A	5%	-15V	0A	0.8A	5%	120W
SUU120-303-1	+5V	1.5A	15A	5%	+15V	1.0A	6A	5%	+15V	0A	0.8A	5%	120W
SUU120-304	+5V	1.5A	15A	5%	+24V	0.45A	3.5A	5%	-24V	0.25A	0.8A	5%	120W
SUU120-304-1	+5V	1.5A	15A	5%	+24V	0.45A	3.5A	5%	+24V	0.25A	0.8A	5%	120W
SUU120-305	+5V	1.5A	15A	5%	+24V	0.4A	3.5A	5%	-12V	0A	0.8A	5%	120W
SUU120-305-1	+5V	1.5A	15A	5%	+24V	0.4A	3.5A	5%	+12V	0A	0.8A	5%	120W
SUU120-306	+3.3V	1.5A	15A	5%	+12V	0.8A	6A	5%	-5V	0A	0.8A	5%	120W
SUU120-306-1	+3.3V	1.5A	15A	5%	+12V	0.8A	6A	5%	+5V	0A	0.8A	5%	120W
SUU120-307	+5V	1.5A	15A	5%	+10V	0.6A	6A	5%	-10V	0A	1.0A	5%	120W
SUU120-307-1	+5V	1.5A	15A	5%	+10V	0.6A	6A	5%	+10V	0A	1.0A	5%	120W
SUU120-308	+3.3V	1.5A	15A	5%	+5V	0.8A	6A	5%	-12V	0A	1.0A	5%	91.5W
SUU120-308-1	+3.3V	1.5A	15A	5%	+5V	0.8A	6A	5%	+12V	0A	1.0A	5%	91.5W

SUU120 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