

100 Watt, SUU100 Series, U-Channel, Single Output

ALL PSU LTD
Electronic Power Solutions

- Universal Input With PFC
- 9V to 48V Single Output Models
- Convection Cooled
- High Reliability 100% Full Load Burn In
- Short Circuit, Over Load, Over Voltage Protection
- Full Approvals: UL/CUL/TUV/CB/CE
- 2 Year Warranty
- Low Profile Compact U-Channel Chassis
Optional vented top cover



Specification

Input Voltage.....	90~264 VAC, 47~63 Hz
Input Current.....	1.0 A @ 230 VAC, 2.0 A @ 115 VAC
Output Voltage.....	See table below (plus +/-5% adjustment range)
Over Load Protection.....	110~150% of rated current (auto-recovery)
Over Voltage Protection.....	112~132% of output voltage (crowbar)
Efficiency.....	85-90% (dependent on unit)
Line Regulation.....	0.5% typically
Load Regulation.....	+/-3% typical @ 230 VAC input
Hold Up Time.....	16 ms @ 110 VAC input
Switching Frequency.....	100 kHz (PFC) typical, 60 kHz (PWM) typical
Leakage Current.....	0.4 mA (0.75 mA max.) @ 240 VAC input and full load
Isolation Voltage.....	I/P-O/P: 3 kVAC, I/P-FG: 1.5 kVAC
Operating Temperature.....	0 °C to +70 °C (derating by 2.5% /°C above 50 °C)
Safety Standards.....	UL/cUL60950-1, TUV EN60950-1
EMC Standard.....	EN55022 Class B, FCC Part 15 level B EN61000-3-2, 3, CISPR-22 level B EN61000-4-2, 3, 4, 5, 6, 8, 11
MTBF.....	>100 khrs (MIL-HDBK-217F) @ 25 °C
Weight.....	Approx 0.48 kg each
Dimensions.....	127(L) x 81.4(W) x 35.1(H) Optional top cover adds 4mm to height.

Models & Ratings

Model	Output Voltage ⁽³⁾	Output Current	Maximum Output Power
SUU100-102	5 ~ 6 V	14.0 ~ 11.7 A	70 W
SUU100-103	6 ~ 9 V	13.3 ~ 8.9 A	80 W
SUU100-104	9 ~ 11 V	11.1 ~ 9.1 A	100 W
SUU100-105	11 ~ 13 V	9.1 ~ 7.7 A	100 W
SUU100-106	13 ~ 16 V	7.7 ~ 6.2 A	100 W
SUU100-107	16 ~ 21 V	6.2 ~ 4.7 A	100 W
SUU100-108	21 ~ 27 V	4.7 ~ 3.7 A	100 W
SUU100-109	27 ~ 33 V	3.7 ~ 3.0 A	100 W
SUU100-110	33 ~ 40 V	3.0 ~ 2.5 A	100 W
SUU100-111	40 ~ 50 V	2.5 ~ 2.0 A	100 W

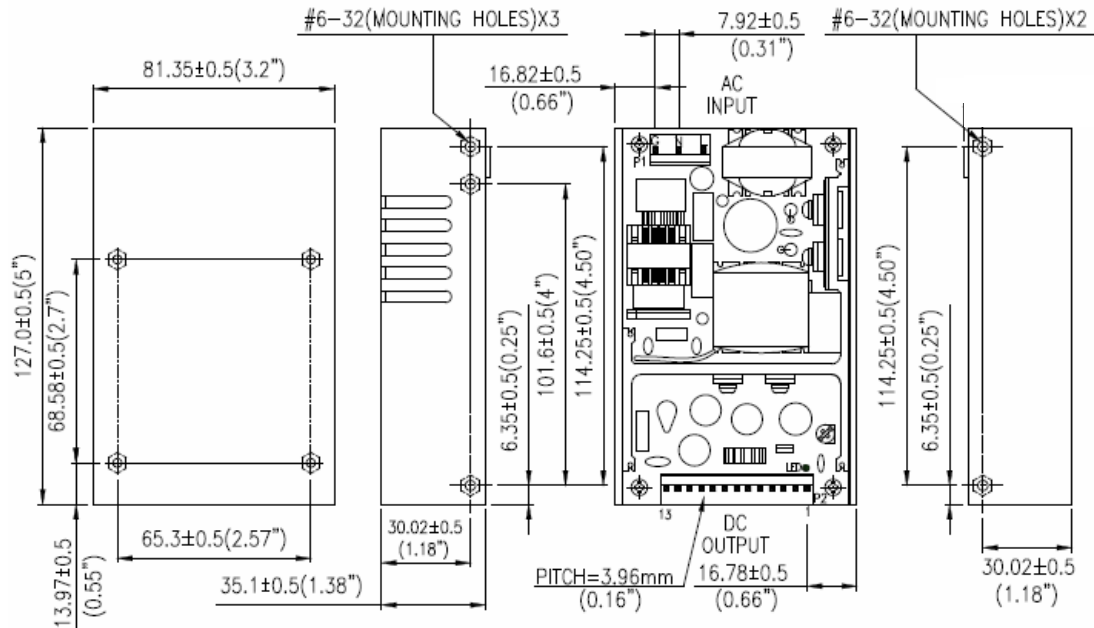
Notes:

- 1) Optional 2 pin input connector available, change part number to SUU101-xxx
- 2) Industrial versions are available with an operating temperature down to -20 °C, contact sales office.
- 3) Output voltage shown is the factory settable range. On board adjustment is +/-5% minimum

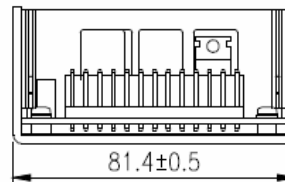
See next page for mechanical details

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Mechanical Details



Input connector mates with Molex 09-50-3051 and 2478 series crimp terminals
Output connector mates with Molex 09-50-3131 and 2478 series crimp terminals



Pinout (Output Connector)

Pin	Function	Pin	Function
1	V1	7	Return
2	V1	8	Return
3	V1	9	Return
4	V1	10	Return
5	V1	11	Return
6	V1	12	Return
		13	N/C

Optional vented top cover available :
Separately as part number SUU Cover, or pre-fitted add -C to the Power Supply Model number, for example Model SUU100-108-C

Specifications can change without notice, E&OE. ALL PSU Terms & Conditions apply.

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