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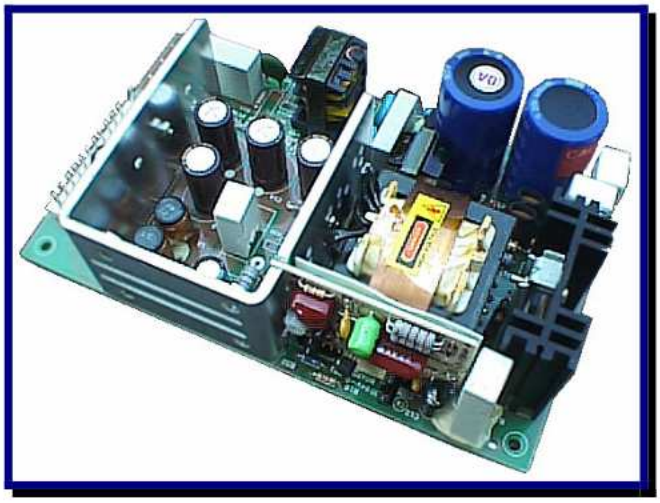
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SU110P SERIES
110 WATT SWITCHING POWER SUPPLIES

FEATURES

- 85 to 264 VAC universal input
- Power Fail Detect (PFD) Signal
- Input surge current protection
- Overvoltage & overcurrent protection
- Open PCB, L-bracket or enclosed option
- 100% burn-in
- UL/CSA/TÜV approved & CE marked to LVD

DESCRIPTION

The SU110P series of compact, open PCB constructed, AC-DC switching power supplies are capable of delivering 110 watts of continuous power at 25 CFM forced air cooling or 80 watts at convection cooling. They operate at 85 to 264 VDC input voltage without the need of a selector strap. They are ideally suited for use in small to medium size digitally-based systems, such as point-of-sale equipment, microprocessor based systems and telecom equipment. All models meet the safety requirements of UL, CSA and IEC.

INPUT SPECIFICATIONS

Input Voltage:	85 to 264 VAC
Input Frequency:	47 to 63Hz
Input Current:	3.2A (rms) for 115 VAC 1.8A (rms) for 230 VAC
Leakage Current:	0.40mA max. at 110 VAC, 60Hz 0.75mA max. at 230 VAC, 50Hz

PFD Signal: TTL logic high for normal operation and TTL logic low upon loss of input power. This signal appears at least 1ms prior to +5V output dropping 5% below its nominal value. This signal also provides a minimum delay of 100ms after +5V is within regulation.

GENERAL SPECIFICATIONS

Switching Frequency:	20kHz to 250kHz, varies with load and line
Efficiency:	70% min. on single output models with Vo ≥ 12V, 65% minimum on all others
Hold-up Time:	12mS min. at 110 VAC
Line Regulation:	± 0.5% max. at full load
Inrush Current:	15 amps at 115 VAC
(at 25° C cold start)	30 amps at 230 VAC
Withstand Voltage:	3000 VAC input to output 1500 VAC input to ground 500 VAC output to ground
MTBF (+25° C ambient):	400,000 hours min. full load
EMI Requirements:	In compliance with CISPR 22 (EN 55022) Class B and FCC Class B
Safety Requirements:	Meets or exceeds UL 1950, CSA C22.2 No. 950, EN 60950 / IEC 950

OUTPUT SPECIFCATIONS

Output Voltage/Current:	See Rating Chart
Total Output Power:	110 watts maximum at 25 CFM forced air cooling or 80 watts maximum at convection cooling
Ripple and Noise:	1% peak to peak max.
Overvoltage Protection:	O/P #1 only; set at 112-132% of its nominal output voltage
Overcurrent Protection:	All outputs protected to short circuit conditions
Temp. Coefficient:	All outputs, ± 0.04% / °C max.
Transient Response:	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500µs after a 25% step load change

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature:	0° C to +70° C
Storage Temperature:	-40° C to +85° C
Relative Humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50° C linearly to 50% at +70° C
Cooling:	110 watts continuous output power at 25 CFM or 80 watts at convection cooling

E135662 LR93632 R9352008 (LVD)

FORTRON/SOURCE
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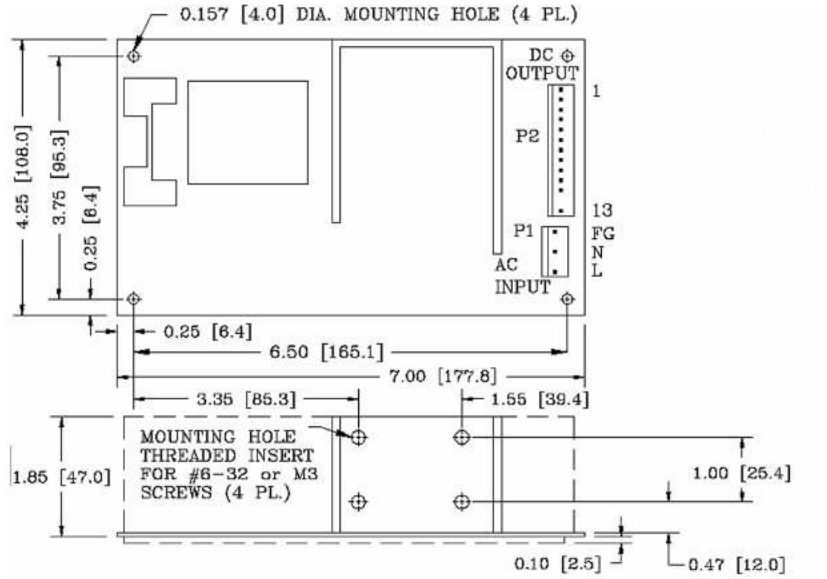
Rev. C 8-2003/DC

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Model	Output #1 Vnom	Imin	Imax	Tol.	Output #2 Vnom	Imin	Imax	Ipeak	Tol.	Output #3 Vnom	Imin	Imax	Tol.	Output #4 Vnom	Imin	Imax	Tol.	Max. Power
SU110P10-1	3.3V	0A	22A	3%	(N/A)					(N/A)				(N/A)				72W
SU110P10	5.0V	0A	22A	3%	(N/A)					(N/A)				(N/A)				110W
SU110P12	12V	0A	9.0A	2%	(N/A)					(N/A)				(N/A)				110W
SU110P13	15V	0A	7.5A	2%	(N/A)					(N/A)				(N/A)				110W
SU110P14	24V	0A	4.5A	2%	(N/A)					(N/A)				(N/A)				110W
SU110P16	30V	0A	3.6A	2%	(N/A)					(N/A)				(N/A)				110W
SU110P23	+5V	0A	10A	3%	+12V	0A	5A	9.0A	3%	(N/A)				(N/A)				110W
SU110P31	+5V	0A	10A	3%	+12V	0A	5A	9.0A	3%	-12V	0A	1A	4%	(N/A)				110W
SU110P32	+5V	0A	10A	3%	+15V	0A	4A	7.5A	3%	-15V	0A	1A	4%	(N/A)				110W
SU110P40	+5V	0A	10A	3%	+12V	0A	5A	9.0A	3%	-12V	0A	1A	4%	-5V	0A	1A	4%	110W
SU110P41	+5V	0A	10A	3%	+15V	0A	4A	7.5A	3%	-15V	0A	1A	4%	+24V	0A	1A	4%	110W
SU110P42	+5V	0A	10A	3%	+12V	0A	5A	9.0A	3%	-12V	0A	1A	4%	+12V	0A	1A	4%	110W
SU110P45	+5V	0A	10A	3%	+12V	0A	5A	9.0A	3%	-12V	0A	1A	4%	+24V	0A	1A	4%	110W
SU110P45-1	+5V	2A	10A	3%	+12V	0A	5A	9.0A	3%	-12V	0A	1A	4%	+24V	1.5A	3A	10%	110W
SU110P45-2	+5V	0A	10A	3%	+24V	0A	3A	5.0A	3%	-12V	0A	1A	4%	+12V	0A	1A	4%	110W
SU110P46	+5V	0A	10A	3%	+15V	0A	4A	7.5A	3%	-15V	0A	1A	4%	-5V	0A	1A	4%	110W

Notes. (1) Peak output current with 10% maximum duty cycle for less than 60 seconds. Total peak power must not exceed 130 watts.
(2) 110 watts maximum at 25 CFM forced air cooling or 80 watts maximum at convection cooling, except model SU110P10-1 which is rated maximum 60 watt convection cooling or 72W at 25 CFM forced air cooling.
(3) Safety agency approvals are for the above listed models in PCB format. To order a model with a metallic L-bracket or box, add suffix "B" for L-bracket format or "C" for enclosed format e.g., SU110P45C.
(4) The output #1 of model SU110P45-1 needs a minimum current of 2A to support the other outputs at their maximum rated loads.

MECHANICAL SPECIFICATIONS



Notes:

1. Dimensions shown in inch (mm)
2. Tolerance 0.02 (0.5) maximum
3. Input connector mates with Molex housing 09-50-3051 and Molex 2878 series crimp terminal
4. Output connector mates with Molex housing 09-50-3131and Molex 2878 series crimp terminal
5. Weight: 640 grams (PCB format)
6. The copper pad of the mounting hole near P1 is for system grounding through a metallic stand-off to the system chassis.

PIN CHART

MODEL \ PIN		1, 2, 3	4, 5	6, 7	8, 9	10	11	12	13
SU110P10-1 SU110P12 SU110P14	SU110P10 SU110P13 SU110P16	Output #1	Return	Return	Output #1	P.F.D.	N.C.	Key	N.C.
SU110P23		Output #1	Common Return	Common Return	Output #2	P.F.D.	N.C.	Key	N.C.
SU110P31	SU110P32	Output #1	Common Return	Common Return	Output #2	P.F.D.	Output #3	Key	N.C.
SU110P40 SU110P42 SU110P45-1 SU110P46	SU110P41 SU110P45 SU110P45-2	Output #1	Common Return	Common Return	Output #2	P.F.D.	Output #3	Key	Output #4

Note: All data are subject to change without notice

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