

NEW • AUTO-RANGING INPUT
• SMALL SIZE
• LOW COST

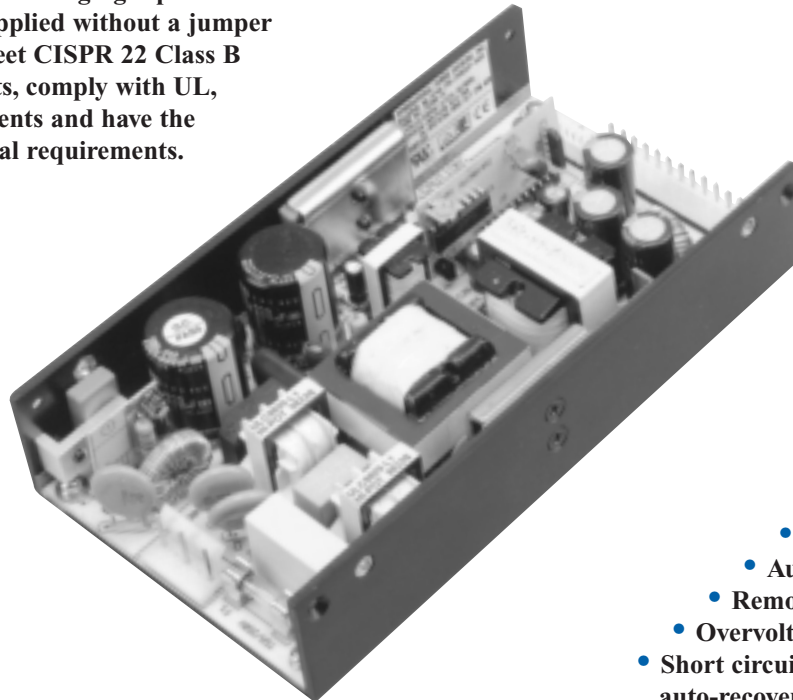
150 WATT

**SWITCHING
POWER SUPPLY**



DESCRIPTION

The HUL150 Series of compact power supplies offers quad output models with 3.3V and are capable of delivering 150 watts of continuous output power. An auto-ranging input allows for worldwide line voltages to be applied without a jumper or selector strap. All models meet CISPR 22 Class B and FCC class B emission limits, comply with UL, CSA and TUV safety requirements and have the CE Mark to satisfy international requirements.



FEATURES

- EN61000-3-2, 3 compliant
- Auto-ranging input
- Remote On/Off
- Overvoltage protection
- Short circuit protection with auto-recovery
- Power good signal/LED on power supply
- Thermal shutdown
- 100% burn-in at full rated load
- 3.3 Volt output

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Model	Output #1				Output #2				Output #3				Output #4			
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.
HUL150-42-3	+5V	2.0A	15A	5%	+3.3V	0A	15A	5%	+12V	0.5A	3A	5%	-12V	0A	1A	3%
HUL150-46-3	+5V	2.0A	15A	5%	+3.3V	0A	15A	5%	+15V	0.5A	3A	5%	-15V	0A	1A	3%
HUL150-40-3	+5V	2.0A	15A	5%	+3.3V	0A	15A	5%	+12V	0.5A	3A	5%	-5V	0A	1A	3%
HUL150-45-3	+5V	2.0A	15A	5%	+3.3V	0A	15A	5%	+24V	0.5A	2A	5%	-12V	0A	1A	3%

NOTE: (1) Use part number UL150-XX-X for product without harmonic correction. Example: UL150-42-3
(2) Total output power for HUL150 is 150W with 20 CFM forced air cooling, 100W convection cooled.
(3) Total combined output power for the +5V and +3.3V not to exceed 100W with 20CFM or 70W with no air.

GENERAL SPECIFICATIONS

Specifications are typical at 25°C, nominal line, 75% load

Efficiency:	70%
Hold-up time:	20 msec min. at 125VAC/80% load
Line regulation:	±1% maximum at full load
Inrush current:	35A at 115VAC or 70A @ 230VAC at 25°C cold start
Withstand voltage:	3000VAC from input to output 1500VAC from input to ground
Operating temperature:	0°C to +70°C*
Storage temperature:	-20°C to +85°C
Relative humidity:	5% to 90% non-condensing
MTBF:	100,000 hours (MIL-HBK-217D)
EMI requirements:	In compliance with CISPR 22 (EN 55022) Class B and FCC Class B
Safety requirements:	Approved to: (a) UL1950 (b) CSA C22.2 No. 234 (c) IEC 950 (EN60950)
Switching frequency:	42kHz

INPUT SPECIFICATIONS

Input voltage:	90-132VAC, 180 to 264 VAC (auto-ranging)
Input frequency:	47 to 63 Hz
Input current:	5A at 115VAC 2.5A at 230VAC
Leakage current:	3.5mA at 230VAC

OUTPUT SPECIFICATIONS

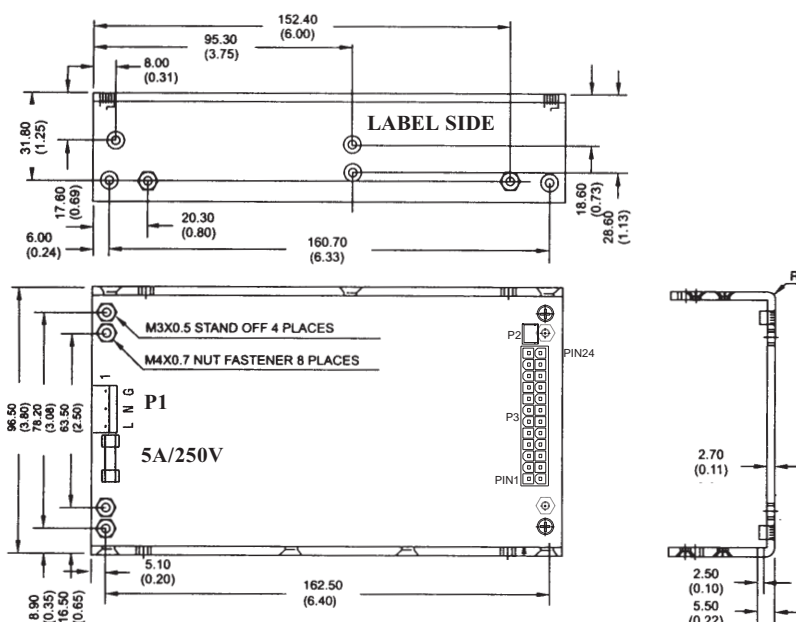
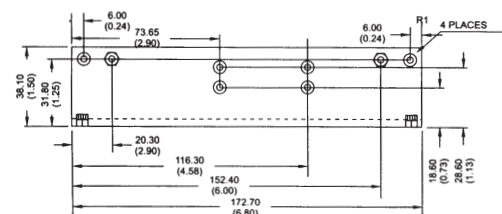
Output voltage:	See Rating Chart
Output current:	See Rating Chart
Ripple and noise:	1% pk-pk maximum
Overvoltage protection:	Set at 110-135% of maximum output voltage (on output #1 only)
Overcurrent protection:	All outputs protected under short circuit conditions
Temperature coefficient:	±0.1%/°C maximum
Transient response:	Maximum excursion of 5% , recovering to 1% of final value in less than 500us after a 50% load change

* Derate linearly from 100% load at 50°C to 50% load at 70°C

MECHANICAL SPECIFICATIONS

NOTES:

- Dimensions shown in mm (inches).
- Tolerance 0.5mm [0.02] maximum.
- Input connector P1 mates with Molex housing 09-91-0500 and Molex 2478/2578/8818 Series crimp terminal
- Output connector P3 mates with Molex housing 39-01-2240 and Molex 44476 Series crimp terminal
- Weight: 600 grams approx.



PIN CHART

1	2	3	4	5	6	7	8	9	10	11	12
3.3V +Sense	Output #2	Output #2	Return	Return	Return	Output #1	Output #1	Output #3	Return	Output #4	Power Good
13	14	15	16	17	18	19	20	21	22	23	24
3.3V -Sense	Output #2	Output #2	Return	Return	Return	Output #1	Output #1	Output #3	Return	Output #4	Return



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