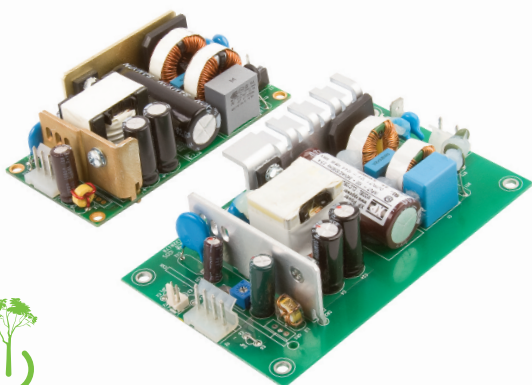


125 Watts

CLC Series



Specification

Input

Input Voltage	85-264 VAC (120-370 VDC), Derate output power linearly to 90% from 90 VAC to 85 VAC
Input Frequency	47-63 Hz
Input Current	2.3 A typical at 115 VAC, full load 1.1 A typical at 230 VAC, full load
Inrush Current	40 A max at 230 VAC, cold start 25 °C
Power Factor	EN61000-3-2, class A
No Load Input Power	<0.5 W
Earth Leakage Current	80/160 μA typical 115/230 VAC 50 Hz 300 μA at 264 VAC/60 Hz max.
Input Protection	Internal T5 A/250 V fuse in line

Output

Output Voltage	12-48 VDC (see tables)
Output Voltage Trim	$\pm 10\%$
Initial Set Accuracy	$\pm 1\%$
Minimum Load	No minimum load required
Start Up Delay	1 s typical
Start Up Rise Time	50 ms
Hold Up Time	16 ms min at 230 VAC
Drift	$\pm 0.2\%$ after 20 min warm up
Line Regulation	$\pm 0.5\%$ max
Load Regulation	$\pm 1\%$
Over/Undershoot	5% typical
Transient Response	4% max. deviation, recovery to within 1% in 500 μs for a 50-75-50% load change
Ripple & Noise	1% pk-pk V1, 20 MHz bandwidth
Overvoltage Protection	115-140% Vnom, recycle input to reset
Overload Protection	110-150%
Short Circuit Protection	Continuous trip and restart (hiccup mode)
Temperature Coefficient	0.05%/°C

- 125 W Forced-cooled Rating
- Low Profile 1.25"
- Industry Standard 2"x 4"& 3"x 5" Package Sizes
- 12 V Fan Supply
- Optional ORing Diode
- <0.5 W No Load Input Power
- 3 Year Warranty

General

Efficiency	88% typical
Isolation	3000 VAC Input to Output, 1500 VAC Input to Ground, 500 VDC Output to Ground
Switching Frequency	65 KHz typical
MTBF	1,245 KHrs to Telecordia SR-332 at 25 °C, GB

Environmental

Operating Temperature	0 °C to +70 °C derate linearly from +50 °C at 2.5%/°C to 50% load at +70 °C.
Cooling	Forced cooled, 10 CFM
Operating Humidity	95% RH, non-condensing
Storage Temperature	-40 °C to +85 °C
Operating Altitude	3000 m
Shock	30 g pk, half sine, 6 axes
Vibration	2 g rms, 5 Hz to 500 kHz, 3 axes

EMC & Safety

Low Voltage PSU EMC Emissions	- EN61204-3, high severity level as below - EN55032 level B conducted - EN55032 level A radiated
Harmonic Currents	EN61000-3-2, class A
Voltage Flicker	EN61000-3-3
Radiated Immunity	EN61000-4-3, level 3 Perf Criteria A
EFT/Burst	EN61000-4-4, level 3 Perf Criteria A
Surge	EN61000-4-5, installation class 3 Perf Criteria A
Conducted Immunity	EN61000-4-6, level 3 Perf Criteria A
Dips & Interruptions	EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms, Perf Criteria A, B, B
Safety Approvals	- IEC60950-1:2005 Ed 2 / IEC62368-1:2014 - UL 62368-1 & CAN/CSA C22.2 No. 62368-1-14 - EN62368-1:2014/A11:2017
Equipment Protection Class	Class I

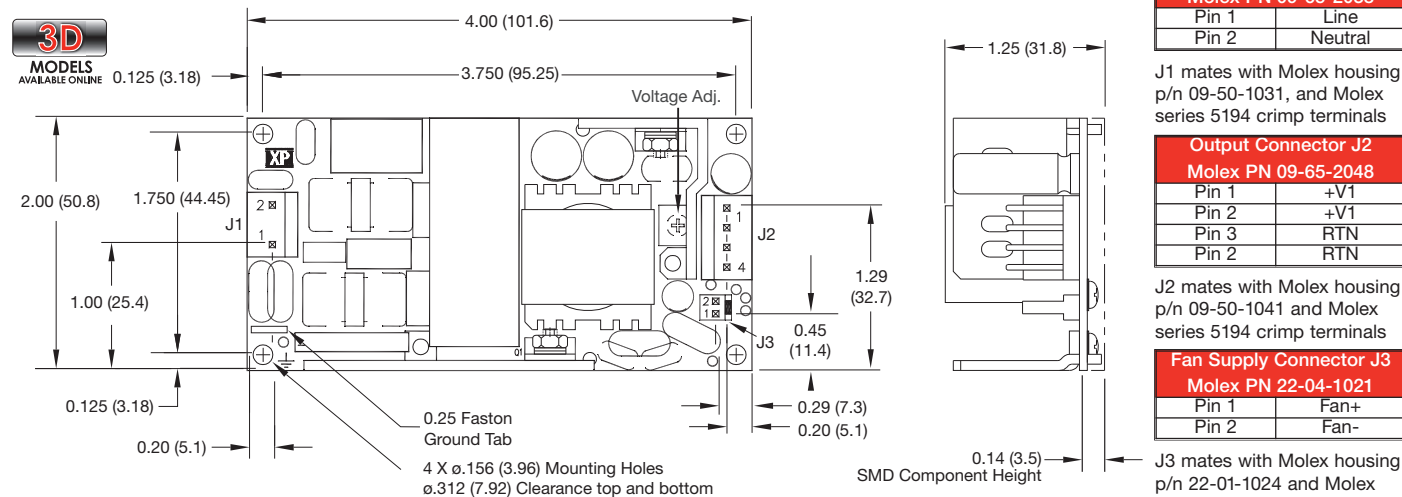
Output Power		Output Voltage V1	Output Current	Fan Supply V2	Model Number
10 CFM	Convection				
125 W	55 W	12.0 VDC	10.4 A	12 V / 0.5 A	CLC125US12
125 W	55 W	24.0 VDC	5.2 A	12 V / 0.5 A	CLC125US24
125 W	55 W	48.0 VDC	2.6 A	12 V / 0.5 A	CLC125US48
125 W	55 W	12.0 VDC	10.4 A	12 V / 0.5 A	CLC125US12-3x5 ⁽¹⁾
125 W	55 W	24.0 VDC	5.2 A	12 V / 0.5 A	CLC125US24-3x5 ⁽¹⁾
125 W	55 W	48.0 VDC	2.6 A	12 V / 0.5 A	CLC125US48-3x5 ⁽¹⁾
125 W	55 W	12.0 VDC	10.4 A	12 V / 0.5 A	CLC125US12D-3x5 ⁽¹⁾
125 W	55 W	24.0 VDC	5.2 A	12 V / 0.5 A	CLC125US24D-3x5 ⁽¹⁾
125 W	55 W	48.0 VDC	2.6 A	12 V / 0.5 A	CLC125US48D-3x5 ⁽¹⁾

Notes

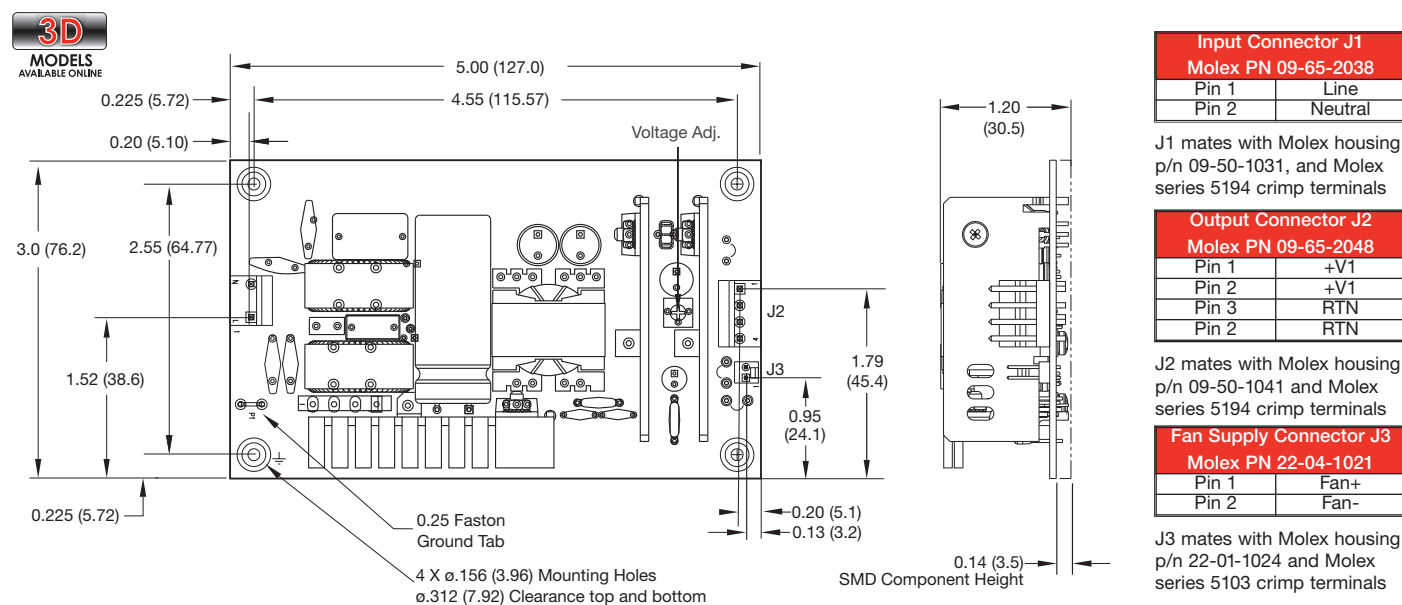
1. The 3 x 5 models share the same specification as the other models except the PCB size is increased to 3" x 5" from 2" x 4". The 'D' models have an integral output ORing diode.

Mechanical Details

CLC125



CLC125 3x5 & CLC125 D 3x5



Notes

1. All dimensions in inches (mm).
2. Weight 0.386 lbs (175 g)

3. Tolerance .xx = ± 0.02 (0.50); .xxx = ± 0.01 (0.25)

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[CLC125US48](#) [CLC125US12](#) [CLC125US24](#)