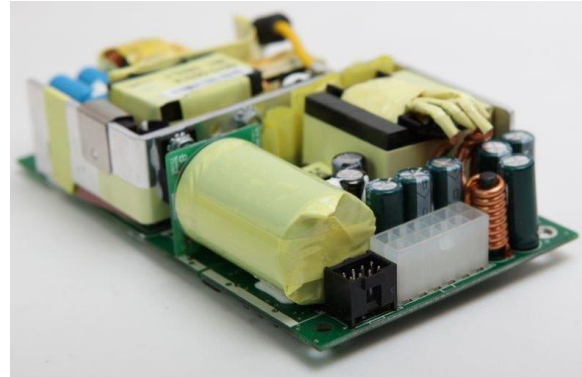


Product Features:

- 12V to 48V outputs available
- Industry standard 3" x 5" footprint
- 18 W/in³ power density
- Universal 90 to 264VAC input
- Active power factor correction (PFC)
- 5V standby and 12V auxillary fan output
- Typical efficiency of 90%
- OVP, OTP and short-circuit protection
- Fanless, convection-cooled operation up to 220W
- Medically approved
- Compliant to worldwide safety and EMC standards



MODEL GUIDE

Model	Output	No Air Flow (see note 1)	With Air Flow (see note 2)	Tolerance	PARD	Min Load
LVOM-365-12V	12V	16.6A	30.4A	±3%	120mV	0V
LVOM-365-15V	15V	13.3A	24.3A	±3%	150mV	0V
LVOM-365-19V	19V	10.5A	19.2A	±3%	190mV	0V
LVOM-365-24V	24V	8.3A	15.2A	±3%	240mV	0V
LVOM-365-29V	29V	6.9A	12.5A	±3%	290mV	0V
LVOM-365-32V	32V	6.2A	11.4A	±3%	320mV	0V
LVOM-365-36V	36V	5.5A	10.0A	±3%	360mV	0V
LVOM-365-48V	48V	4.16A	7.6A	±3%	480mV	0V
All models	12V Aux	0.5A	1.0A	±15%	240mV	0V
All models	5VSB	1.0A	2.0A	±5%	50mV	0V5

Note 1: Total continous output power not to exceed 200W.

Note 2: Air flow must be sufficient to keep heatsink temperatures below 110°C at 50°C ambient operation. Total power not to exceed 365W.

INPUT

Parameter	Notes/Description	Min	Nom	Max	Units
AC Input Voltage		90	115/230	264	VAC
Input Frequency		47	50/60	63	Hz
Input Current	90VAC			5	A
Inrush Current	No damage at 230 VAC cold start				
Efficiency	50% load		90		%
Power Factor	90VAC		0.98		

OUTPUT

Parameter	Notes/Description	Min	Nom	Max	Units
Load Regulation	Main output		±1		%
	12V Aux		±5		%
	5VSB		±15		%
Line Regulation	90-264 VAC		±0.1		%
Cross Regulation	Main Output		±1		
	12V Aux		±5		%
	5VSB		±15		%
Transient Response	25% load change			5	%
Ripple & Noise	Peak-peak 20MHz bandwidth			±1	%
Adjustment Range	Main output		±5.0		
Rise Time		0.2		20	msec
Startup Time				1	sec
Holdup Time	115 VAC, full load	16			msec
Minimum Load		0			A
Temperature Drift			±1.2		mV/C

PROTECTION

Parameter	Notes/Description	Min	Nom	Max	Units
Undervoltage Lockout	No damage, auto-recovery	60	75		VAC
Over-Voltage Protection	Latched shutdown			130	%
Over-Current Protection	Auto-recovery			150	%
Short-Circuit Protection	Auto-recovery				
Over -Temperature	Auto-recovery				
Input Fuse	Line and neutral			6.3	A
Isolation Input/Ouput	1 second minimum	5656V			VDC
Isolation Input/Ground	1 second minimum	5656V			VAC
Leakage Current	230 VAC			275	uA

SAFETY & COMPLIANCE

IEC 61000 Family	Standard	Condition	Criteria
ESD	EN61000-4-2	15KV air discharge 8KV contact discharge	A
Radiated Field	EN61000-4-3	3V/m, 80-1000MHz, 80% AM, 3m distance	A
EFT	EN61000-4-4	±2kV on AC power port ±1kV on signal/control lines	A
Surge	EN61000-4-5	±1KV line-to-line, ± 2 KV line to earth ±0.5 kV for outdoor cables	A
Conducted RF Immunity	EN61000-4-6	3Vrms, 0.15-80Mhz, 80% AM	A
Magnetic Field Immunity	EN61000-4-8	50 and 60 Hz, 3A/m	A
Dips & Interruptions	EN61000-4-11	Dip to 40% for 5 cycles (100msec)	B
		Dip to 70% for 25 cycles (500msec)	B
		Dropout to 5% for 10 msec	B
		Interrupts > 95% for 5 sec	C
Voltage Fluctuation	EN61000-3-3		

LVOM-365 Series

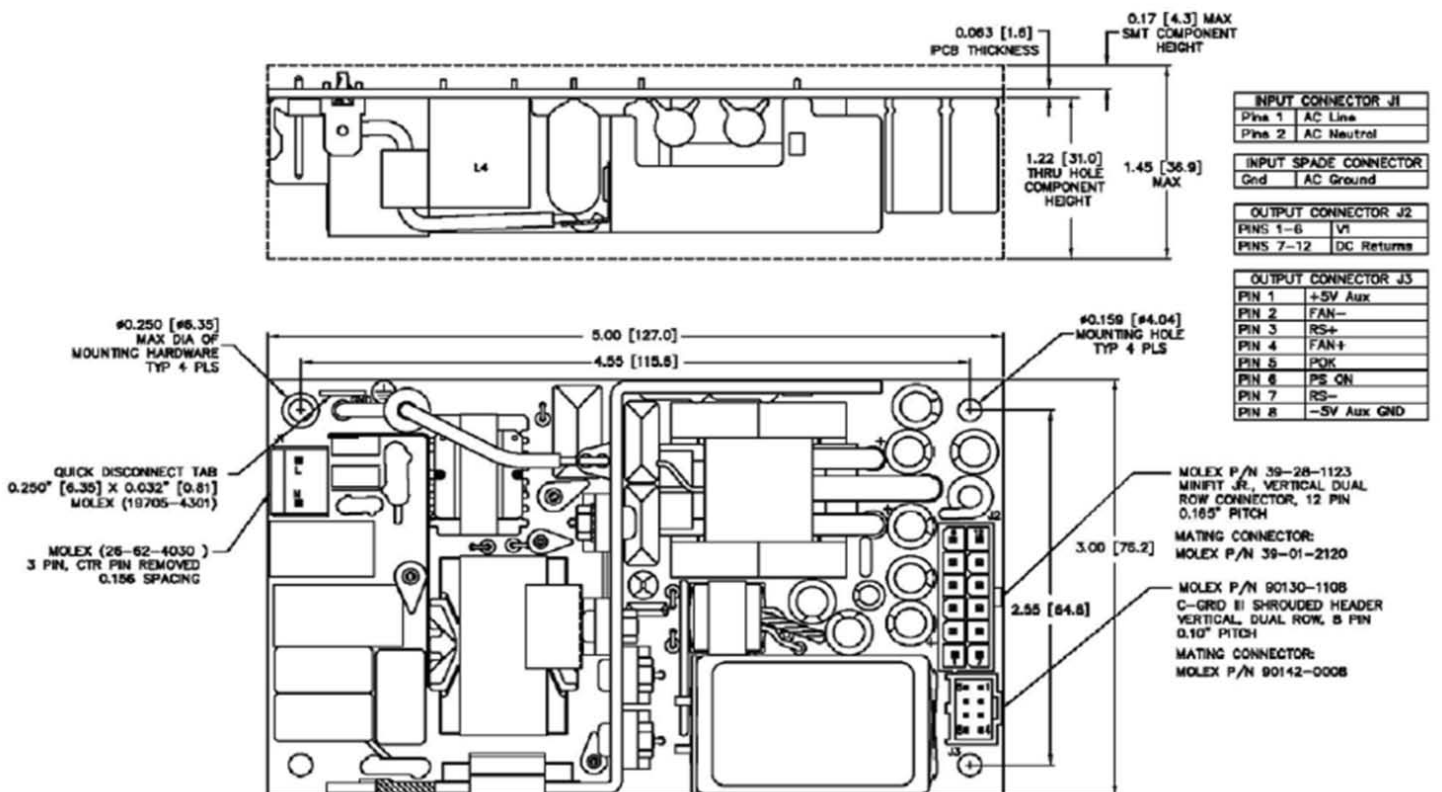
365W AC/DC Power Supply

Emissions	Standard	Condition	Criteria
Conducted EMI	EN55022	Class B	4dB margin
Radiated EMI	EN55022	Class A	4dB margin
Safety Agency Approvals			
Agencies	VDE, UL, c-UL		
Standards	EN60950, IEC60950, UL60950, EN60601-1, IEC60601, UL 60601-1		

ENVIRONMENTAL

Parameter	Notes/Description	Min	Max	Units
Operating Temperature	50% of max power at 70°C Linearly derated from 50°C to 70°C	-20	70	°C
Storage Temperature		-40	80	°C
Relative Humidity	Operating, non condensing	8%	90	%
Operating Altitude			3000	m
Shock	Half-sine 3 axis, operating		10	G
Vibration	10-300Hz, 3 axis, operating		0.5	G
MTBF	75% load	200,000		Hours

MECHANICAL DRAWING



Mouser Electronics

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[LVOM-365-48V](#)