

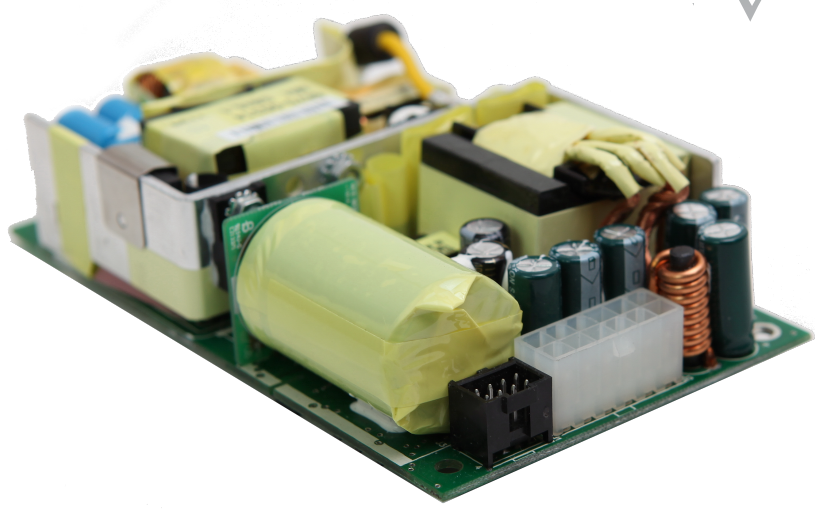
LVOM365 Series

365 Watt Open Frame Medical Power Supply
Single Outputs ranging from 12~48 VDC



Product Features:

- 12V to 48V outputs available
- Industry standard 3" x 5" x 1.5" footprint
- 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



INPUT:

AC INPUT VOLTAGE	90 ~ 264 VAC
INPUT FREQUENCY	47 ~ 63 Hz
INPUT CURRENT	5A Max at 90 VAC
INRUSH CURRENT	No damage at 230 VAC cold start
EFFICIENCY	90% at 50% Load
POWER FACTOR	0.98 at 90 VAC

OUTPUT:

LOAD REGULATION	±1%; ±15% 12V Aux; ±5% 5VSB
LINE REGULATION	±0.1% 90~264 VAC
CROSS REGULATION	±1%; ±15% 12V Aux; ±5% 5VSB
TRANSIENT RESPONSE	5% at 25% load change
RIPPLE & NOISE	±1% peak-peak 20Mhz bandwidth
ADJUSTMENT RANGE	±5%
RISE TIME	0.2~ 20 msec
STARTUP TIME	1 sec
HOLDUP TIME	16 msec; 115VAC; full load
MINIMUM LOAD	0A
TEMPERATURE DRIFT	±1.2 mV / °C

PROTECTION:

UNDER VOLTAGE LOCKOUT	Min 60 VAC no damage, auto-recovery
OVER VOLTAGE	130%, latched shutdown
OVER CURRENT	150%, auto-recovery
SHORT CIRCUIT	Auto-recovery
OVER TEMPERATURE	Auto-recovery
INPUT FUSE	6.3A line and neutral
ISOLATION INPUT/OUTPUT	1 sec. minimum, 5656VDC
ISOLATION INPUT/GROUND	1 sec. minimum, 5656VDC
LEAKAGE CURRENT	230 VAC; 275µA

OPERATING & ENVIRONMENTAL:

OPERATING TEMPERATURE	-20 ~ 70°C
STORAGE TEMPERATURE	-40° ~ 80°C
RELATIVE HUMIDITY	8% ~ 90% operating, non-condensing
OPERATING ALTITUDE	3000m max
SHOCK	10G half-sine 3 axis, operating
VIBRATION	0.5G 10-300Hz, 3 axis, operating
MTBF	200,000 Hours at 75% Load

EMC & SAFETY COMPLIANCE:

ESD	EN61000-4-2
RADIATED FIELD	EN61000-4-3
EFT	EN61000-4-4
SURGE	EN61000-4-5
CONDUCTED RF IMMUNITY	EN61000-4-6
MAGNETIC FIELD IMMUNITY	EN61000-4-8
DIPS & INTERRUPTIONS	EN61000-4-11
VOLTAGE FLUCTUATION	EN61000-3-3
CONDUCTED EMI	EN55022 Class B
RADIATED EMI	EN55022 Class A
HARMONIC CURRENTS	EN61000-3-2
AGENCIES	VDE, UL, c-UL
STANDARDS	EN60950; IEC60950; UL 60950 EN60601-1; IEC60601; UL 60601-1



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MODEL SELECTION GUIDE

MODEL	OUTPUT	NO AIR FLOW*	WITH AIR FLOW**	TOLERANCE	PARD	MIN LOAD
LVOM-365-12	12V	16.6A	30.4A	±3%	120mV	0A
LVOM-365-15	15V	13.3A	24.3A	±3%	150mV	0A
LVOM-365-19	19V	10.5A	19.2A	±3%	190mV	0A
LVOM-365-24	24V	8.3A	15.2A	±3%	240mV	0A
LVOM-365-29	29V	6.9A	12.5A	±3%	290mV	0A
LVOM-365-32	32V	6.2A	11.4A	±3%	320mV	0A
LVOM-365-36	36V	5.5A	10A	±3%	360mV	0A
LVOM-365-48	48V	4.16A	7.6A	±3%	480mV	0A
ALL MODELS	12V Aux	0.5A	1A	±15%	240mV	0A
ALL MODELS	5VSB	1A	2A	±5%	50mV	0A

*Total continuous output power not to exceed 220W

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

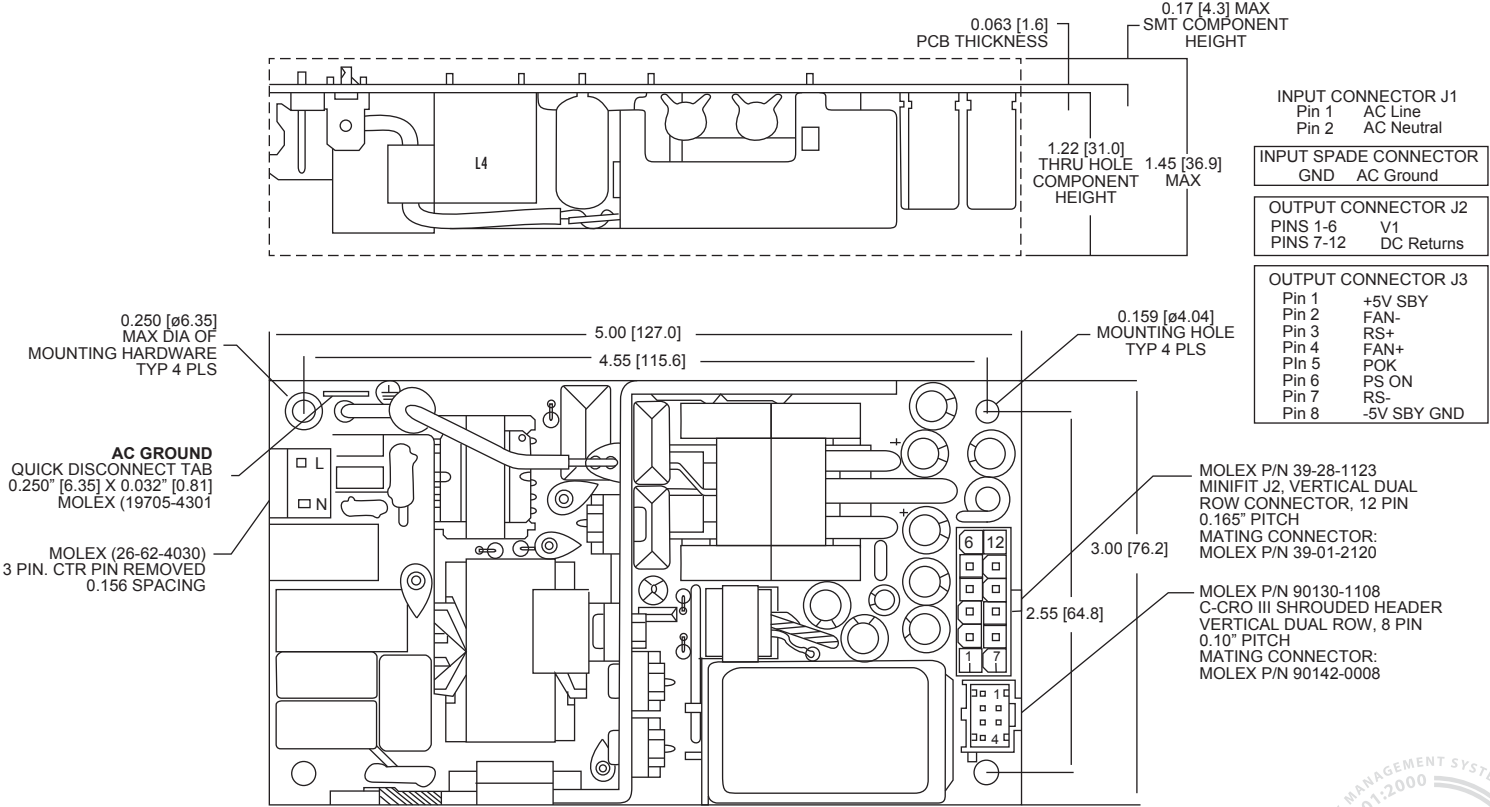
MECHANICAL SPECIFICATION

CONNECTOR

Input Connector J1
J1 Mating Connector
Ground Connector
Ground Mating Connector
Power Output Connector J2
J2 Mating Connector
Signal Output Connector J3
J3 Mating Connector

MANUFACTURER & PART NUMBER

Molex 26-60-4030 or equivalent
Molex 09-91-0300 or equivalent
Molex 19705-4301 or equivalent
Molex 0190030001 or equivalent
Molex 39-28-1123 or equivalent
Molex 39-01-2120 or equivalent
Molex 90130-1108 or equivalent
Molex 90142-0008 or equivalent



Mouser Electronics

Authorized Distributor

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[LVOM-365-48V](#)