
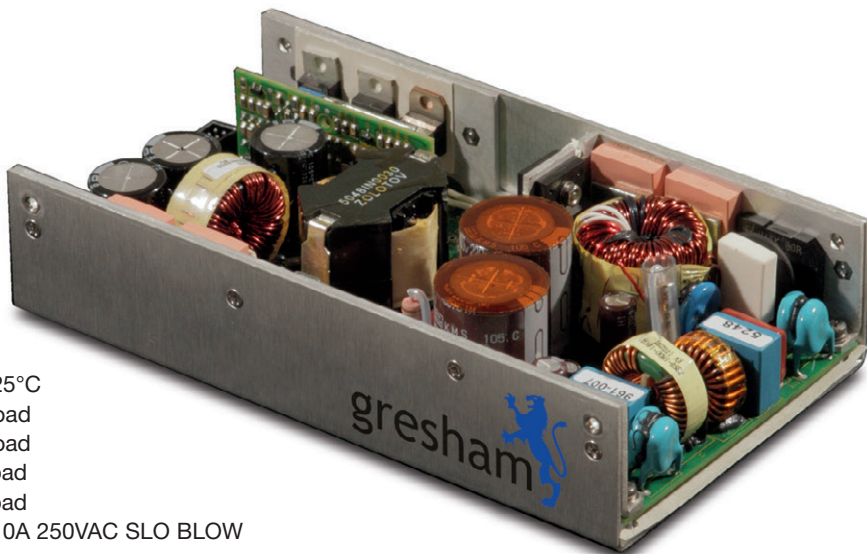


- 600W high-density models
- Universal AC input with PFC
- Active load current share
- O-ring diode for N+1 parallel operation
- Ruggedized U-Channel construction
- International regulatory approvals
- RoHS compliant 

Input

Input Voltage:	85 – 264VAC
Frequency:	47 – 63Hz
Inrush Current:	50A maximum, cold start at 25°C
Efficiency:	89% typical at 230VAC, full load 84% typical at 115VAC, full load
Power Factor:	0.96 typical at 230VAC, full load 0.99 typical at 115VAC, full load
Input Protection:	Internal Line Fuse: IEC type 10A 250VAC SLO BLOW
Brown – Out:	75 to 300VAC
Leakage Current:	< 0.5mA @ 50/60Hz, 264VAC



Output Voltages & Currents

Output	Output Voltage	Maximum Amps / Watt with 24CFM Forced Air	Peak Load
V1	12V, 24V, 28V, 32V, 48V, 56V	600W	620W
V2 – Option	3.3V, 5V, 12V, 24V	5A / 50W	5.5A
V3 – Option	5V STANDBY	0.5A	0.75A

Output

Maximum Power:	300W (250W on 12V version) for free convection base plate cooling, 600W with forced cooling air
Adjustment Range:	± 5%
Auxiliary standby output (option):	5V @ 0.5A regulated, ± 4%
V2 Output (option):	3.3V, 5V, 12V, 24V ± 5% 5A / 50W maximum
Line Regulation:	± 0.1%
Load Regulation:	Less than ± 0.5% for load changes from zero to full load
Ripple & Noise	1% pk-pk Max, 20Mhz BW measured on 10uF tantalum in parallel with a 0.1uF ceramic capacitor on output connector
Initial Set Point Tolerance:	V _{out} ± 0.5%
Minimum Load:	Not required
Overshoot & Undershoot:	Less than 0.5% at turn ON and OFF
Transient Load Response:	± 5% Max. Deviation for load change of 25% to 75%, at slew rate of 1A/μsec, recovery time less than 500μsec
Turn On Delay:	1sec. maximum
Hold-up Time:	10mSec minimum
Turn-On Rise Time:	50mSec typical
Over-current Protection:	105 to 135% of I Max, constant current limit, automatic recovery
Over-voltage Protection:	120 to 135% above nominal (Latched Shut-Down) AC input must recycle to re-start

Temperature Protection:

Shutdown due to excessive internal temperature 95 ± 5°C automatic recovery
Current Share: YES, Built In O-ring diode / FET
Remote Sense: V1 only – compensates for 0.5V lead drop min. will operate without remote sense connected

Signals & Commands

Inhibit (on/off):	Active low, output shut down
DC Fail:	TTL level Open collector active low when there is loss of regulation
AC Fail (option):	Open collector active low
I²C bus (option):	I ² C Passive data: s/n, model no., revision, and/or user defined data

Environmental Specifications

Temperature:	Operating: -40°C to +50°C (Linear de-rating to 50% output power at 70°C Storage: -50°C to +85°C
Temperature Coefficient:	0 to 70°C ± 0.02%/°C
Cooling:	250/300W free convection cooling (base plate cooling). 600W forced air cooling (24CFM min.)
Humidity:	Maximum 95% RH non-condensing
Altitude:	Operating 6,000 ft. non-operating 40,000 ft.
Vibration:	Three orthogonal axes at 1 octave/min, 5 min dwell at four major resonances at 0.75G peak, 5Hz to 500Hz

Safety Regulatory & EMC Specifications

Meets FCC CLASS B, CISPR 22 CLASS B, EN55022 CLASS B with external line filter

EN61000-3-2	Harmonics
EN61000-3-3	Voltage fluctuations
EN60000-4-2	ESD +8KV AIR +4KV contact discharge, performance criteria B
EN61000-4-3	Radiated Immunity: 80 – 1000Mhz 3V/m, AM 80% (1KHz), criteria A
EN61000-4-4	Fast transient: 1KV for AC power port, 0.5KV for DC power I/O and signals Port, performance criteria B
EN61000-4-5	Surge: 2KV common mode and 1KV differential mode
EN61000-4-6	3VRMS, 80% A.M. by 1kHz
EN61000-4-8	3A/m at 50Hz, performance criteria A
EN61000-4-11	Voltage dips and interruption: 30% reduction for 10mSec – criteria B, 60% for 100mSec – criteria C, 95% reduction for 5000mSec – criteria C

Dielectric Withstand: Input to Case: 1500VAC
 Input to Output: 3000VAC
 Output to Case: 1500VDC

Safety Agency Compliance:

UL 60950-2 , CB Certificate & Report, CE MARK (LVD)

MTBF: 500,000 hours (300,000 hours on 12V version) minimum per BELCOR 332, issue 6 specification @ 30°C

RoHS: Category 6

Mechanical Dimensions

Size: 173 x 98 x 38.5mm (6.8" x 3.85" x 1.52")

Weight: 850gr. Max. (27oz)

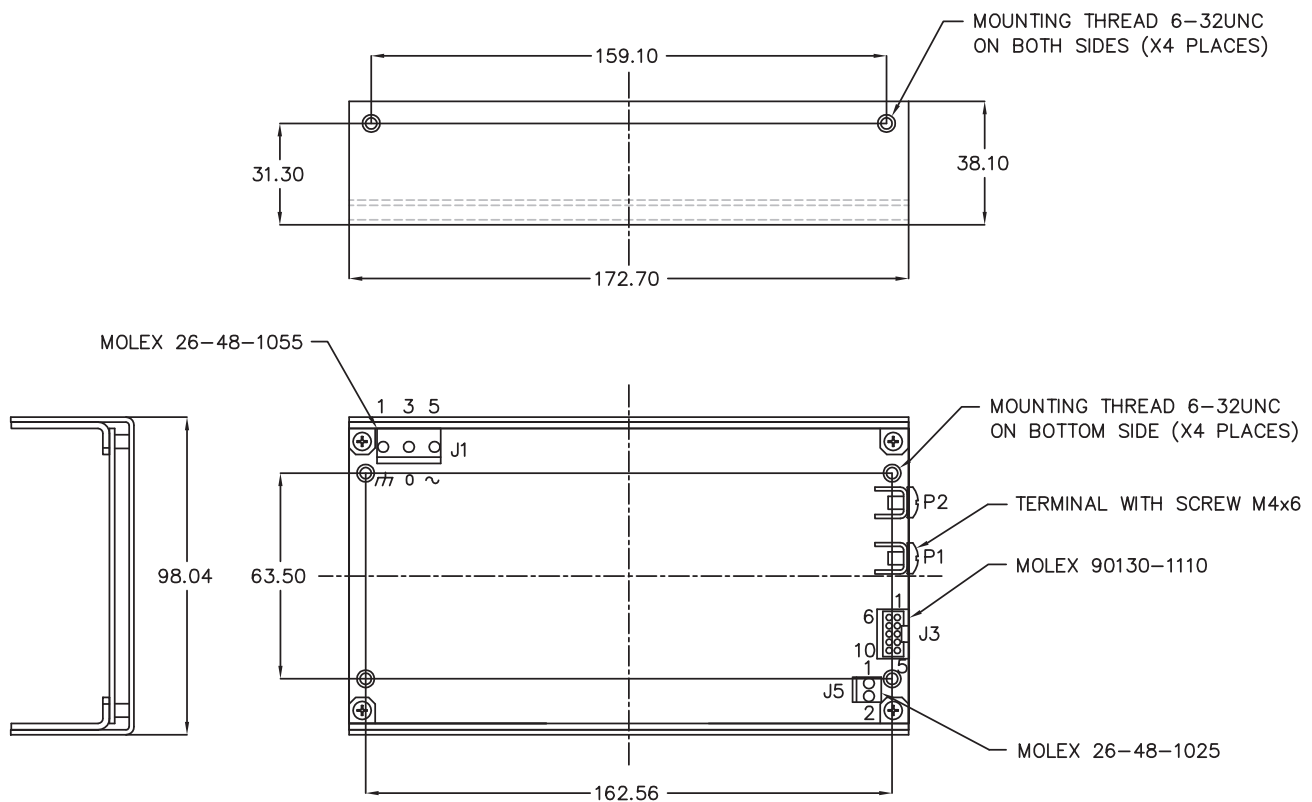
Input Connector J1: Molex 3 Pin P/N 26-48-1055
Mating connector: Housing – Molex 09-50-3051 (x1)
 Crimp terminal – 08-52-0113 (x3)

M&C Connector J3: Molex 16 Pin P/N 90130-1116
Mating connector: Housing – 90142-0016
 Crimp terminal – 90119-2110 (x16)

12V Connector J5: Molex 2 Pin P/N 26-48-1025
Mating connector: Housing – Molex 09-50-3021 (x1)
 Crimp terminal – 08-52-0113 (x2)

Main output 24V : Screw M4 X6

Open Frame Outline Drawing



All specifications are subject to change without notice.

