

FEATURES AND BENEFITS

3" x 5" x 1.3" Package	Meets IEC61000-3-2 Class C for 0% to 100% LED Dimming Applications (5 Watts to 130 Watts)
130 Watts	Approved to EN/CSA/IEC/UL62368-1
Class B Conducted EMI	3 Year Warranty
70°C Ambient Operation with No Derating (Conduction Cooled)	RoHS Compliant
Universal Input 90-264Vac	

MODEL SELECTION

Model Number	Volts	Maximum Output Current	Minimum Load	Ripple & Noise*	Total Regulation	OVP Threshold
LB130S56K	56V	2.32	0A	560mV pk-pk	±3%	66V± 4V

Notes : * Ripple is 800mV pk-pk @ -10°C.

INPUT

AC Input	100-240Vac, ±10%, 47-63Hz, 1Ø
Input Current	Max. 115Vac: 1.8A, 230Vac: 0.9A
Inrush Current	< 55A peak, 264Vac, cold start, turn on at AC zero crossing
Input Fuses	F1, F2: 4A, 250Vac fuses provided on all models
Earth Leakage Current	<500µA@264Vac, 60Hz, NC
Efficiency	Minimum of 90%

The specification above is based on 25°C ambient.

PROTECTION

Overtemperature Protection	Sensing transformer temperature, 165°C latching type, requires input power recycling to reset
Overload Protection	Hiccup Mode
Short Circuit Protection	Hiccup Mode, auto recovery
Overvoltage Protection	OVP latch

The specification above is based on 25°C ambient.

OUTPUT

Hold-up Time	20mSec at 130W, 120Vac/60Hz
Turn On Time	Less than 3 sec. @115Vac, Full Load
Switching Frequency	PFC: Fixed, 65kHz Main Converter: Variable 35-200kHz, 65-70kHz at full load
Output Power	Maximum of 130 Watts conduction at 70°C 200 Watts of peak for minimum of 60 Sec @ 50°C
Output Voltage	56V
Ripple and Noise	0.5%rms, 1% pk-pk, see chart
Transient Response	500µS typical, return to 0.5% of nominal, Δi/Δt: <0.2A/µS. Max Voltage Deviation = 3% Test Conditions: a) 5% to 50% load change b) 50% to 100% load change c) 100% to 50% d) 50% to 5%
Voltage Adjustability	Fixed Output
Minimum Load	Not required
Total Regulation	+/- 3% combined line, load and initial setting

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EMI/EMC COMPLIANCE

Conducted Emissions	EN55015 Class B, FCC Part 15, Subpart B, Class B
Radiated Emissions	EN55022 Class A, FCC Part 15, Subpart B, Class A w/6db margin
Static Discharge Immunity	EN61000-4-2, 6kV Contact Discharge, 8kV air discharge
Radiated RF Immunity	EN61000-4-3, 3V/m
EFT/Burst Immunity	EN61000-4-4, 2kV/5kHz
Line Surge Immunity	EN61000-4-5, 1kV differential, 2kV common-mode
Conducted RF Immunity	EN61000-4-6, 3Vrms
Power Frequency Magnetic Field Immunity	EN61000-4-8, 3A/m
Voltage Dip Immunity	EN61000-4-11, 100%, 10ms; 30%, 275ms; 60%, 100ms; Performance Criteria A, A, & A at 70% load
Line Harmonic Emissions	EN61000-3-2, Class C from no load to 100% load
Flicker Test	EN61000-3-3, Complies (dmax<6%)

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RELIABILITY

Life	50,000 Hrs at 70°C, 130 Watts of output, 115Vac or 230Vac input Voltage
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SAFETY

Safety Standards	EN/CSA/IEC/UL62368-1
Shock	Operating: Half-sine, 20gpk, 10ms, 3 axes, 6 shocks total Non-Operating: Half-sine, 40 gpk, 10 ms, 3axes, 6 shocks total

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ISOLATION SPECIFICATIONS

Isolation	Input-Output: 3,000Vac Input-Ground: 1,800Vac Output-Ground: 1,500Vac
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ENVIRONMENT

Operating Temperature	Conduction Cooled: -10°C to +70°C Full Load Convection Cooled: -10°C to +50°C Full Load, 110 Watts @ 60°C, 90 Watts @70C Start Up at -40°C
Heat-Sink Temperature	To maintain Safety approval & life expectancy, heat-sink temperature should not exceed 85°C
Storage Temperature	-40°C to +85°C
Altitude	Operating: -457 to 3000m Non-operating: -457 to 12,192m
Relative Humidity	5% to 95%, non-condensing
Vibration	Operating: 0.003g ² /Hz, 1.5grms overall, 3 axes, 10 min/axis Non-Operating: 0.026g ² /Hz, 5.0grms overall, 3 axes, 1 hr/axis
Dimensions	W: 3.0" x L: 5.0" x H: 1.3"
Weight	380g

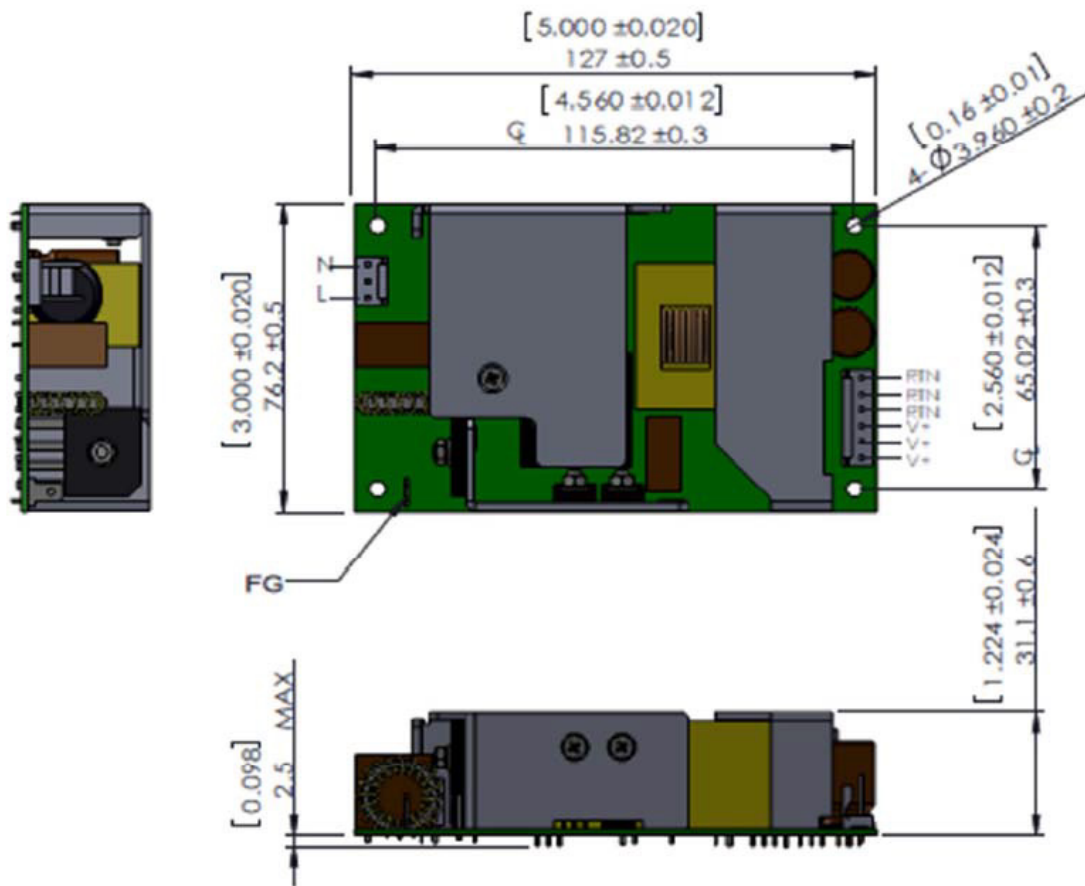
The specification above is based on 25°C ambient.



CONNECTOR INFORMATION

Input Connector J100	Ground (FG)	DC Output Connector J300
PIN 1) AC LINE PIN 2) EMPTY PIN 3) AC NEUTRAL	0.25" FASTON TAB	Term. 1,2,3: RTN Term. 4,5,6: +Vout
Mating Connector: AMP Molex 640250-3 Pins: 640252-2	Mating Connector: Molex 190020001	Mating Connector: AMP 640250-6 Pins: 640252-2

MECHANICAL DRAWING



- Notes :**
1. All dimensions in inches (mm), tolerances are mentioned for each measurement.
 2. Mounting holes should be grounded for EMI purposes.
 3. FG is safety ground connection.
 4. The power supply requires mounting on metal standoffs 0.20" (5mm) in height, min.