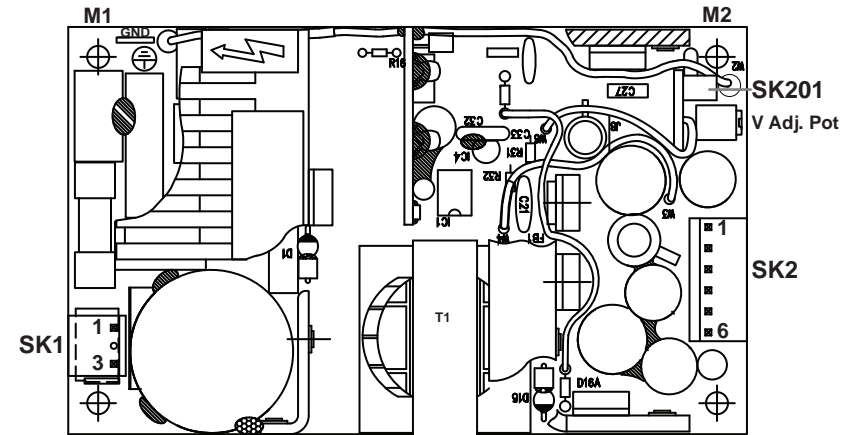


To comply with the published safety standards, the following must be observed when using this power supply:

- Maximum ambient temperature for the power supply must not exceed 50°C.
- When installing the power supply in the end-use equipment, special attention is required to ensure safety compliance with the following safety standards: UL60950-1, EN60950-1, IEC60950-1, and CSA22.2 No. 60950-1-03 for GLS62, GLS63, GLS64, and GLS65; UL60601-1, EN60601-1, IEC60601-1, and CSA22.2 No. 60601-1-M90 for GLS63-M, GLS64-M, and GLS65-M. The safety requirements include creepage distances, clearances, and distance through insulation between primary wiring and earth or secondary (SELV) wiring.
- The power supply's rated input voltage is automatically selected for GLS62, GLS63, GLS64, and GLS65. Please refer to the specification sheet for the input voltage range. GLS63-M, GLS64-M, and GLS65-M are approved and certified for the rated voltage range of 100 V ac to 250 V ac and/or 140 V dc to 300 V dc.
- The maximum output power of the supply must not exceed the rating indicated in the specification sheet.
- The earth ground wire must be connected only to the point marked with the earth ground symbol (on the unit).
- The disconnection from the line must be in the end system.
- Hazardous voltages exist in the primary circuits. Disconnect the power supply before servicing.
- When operating with a dc input voltage range, the unit input must be protected by a dc rated fuse in the end-use installation system.
- The internal fuse should only be replaced with a 3.15 A, 250 V ac, type SP0001.1009 manufactured by Schurter AG, type 2163.15 manufactured by Littelfuse, or type S501 manufactured by Cooper.
- This power supply is not suitable for direct contact to the patient.
- This equipment is considered Class I according to protection against electric shock.
- This power supply is **CE** marked following the provisions of the Low Voltage Directive, 2006/95/EC.
- For technical assistance, contact SolaHD Technical Support at (800) 377-4384 or send an e-mail to tech@solahd.com. Please visit our Web site at www.solahd.com for additional product information and specification sheets.

## Mechanical Outline



## Connector PIN Designation

Input Connector	PIN	GLS62	GLS63 (-M)	GLS64 (-M)	GLS65 (-M)
SK1	1	Neutral			
	3	Line			
Output Connector	PIN	GLS62	GLS63 (-M)	GLS64 (-M)	GLS65 (-M)
SK2	1	+5 V	+12 V	+15 V	+24 V
	2				
	3				
	4	Common			
	5				
	6				
SK201	1	+Sense			
	2	-Sense			

**NOTE:** Mounting holes M1 and M2 should be grounded for EMI purposes. Mounting hole M1 is a safety ground connection.

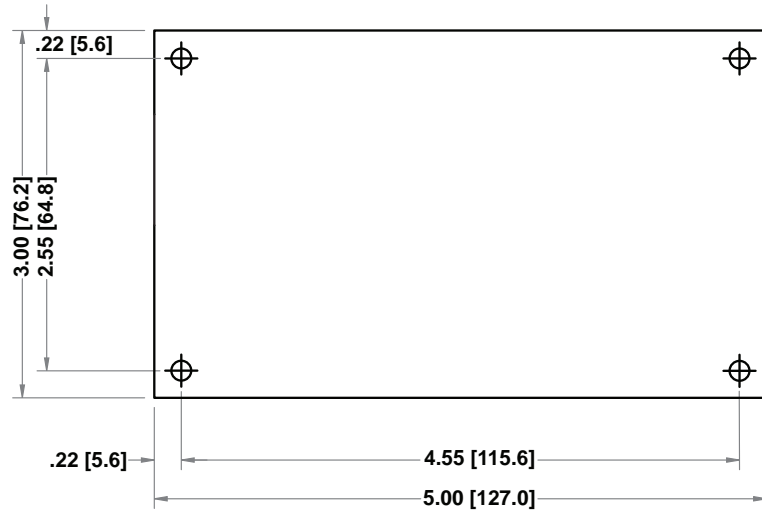
## Output Ratings

Model	Output Voltage (V)	Convection Cooling		30 CFM Forced Air Cooling	
		Max. Output Current (A)	Max. Output Power (W)	Max. Output Current (A)	Max. Output Power (W)
GLS62	+5	12.0	60	16.0	80
GLS63 (-M)	+12	5.0		6.7	
GLS64 (-M)	+15	4.0		5.3	
GLS65 (-M)	+24	2.5		3.3	

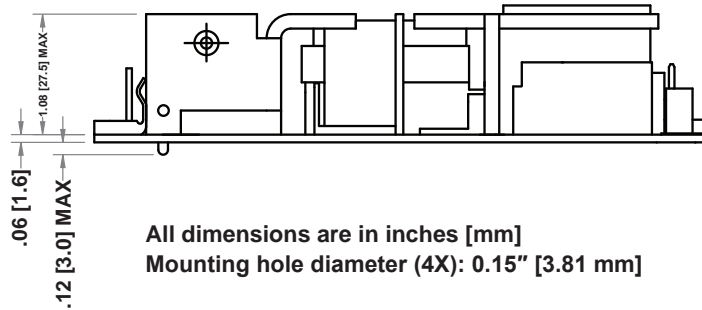
Mechanical Dimensions

Typical Ventilation Setup

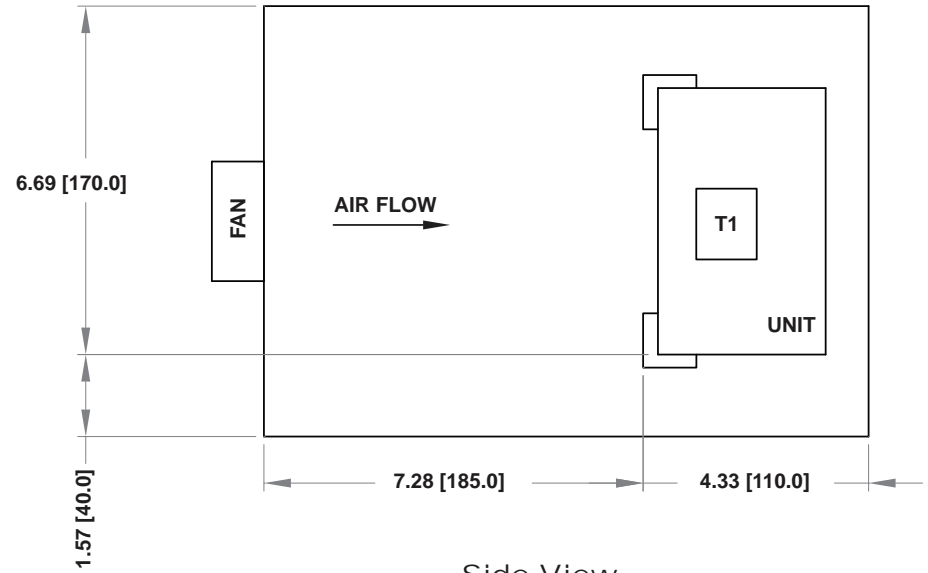
Bottom View



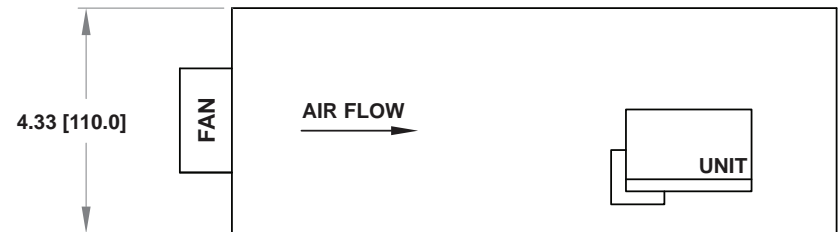
Side View



Top View



Side View



Fan: MINEBEA 3110NL-04W-B30

Fan Input: 12 V dc

NOTE: Dimensions and fan used are for reference only

# GLS60 Series Specifications

## Electrical Specifications

Input	
Input range	85-264 Vac (wide range); 120-300 Vdc
Frequency	47-440 Hz
Inrush current	<18 A peak @ 115 Vac, <36 A peak @ 230 Vac, cold start @ 25°C
Input current	1.5 A max. (RMS) @ 115 Vac
Efficiency	70% typical at full load
EMI filter	FCC Class B conducted; CISPR 22 Class B conducted; EN55022 Class B conducted; VDE 0878 PT3 Class B conducted
Safety ground leakage current	<0.5 mA @ 50/60 Hz, 264 Vac input
Output	
Maximum power	60 W convection; 80 W with 30 CFM forced air
Adjustment range	-5, 10% min.
Hold-up time	20 ms @ 60 W load, 115 Vac nominal line
Overload protection	Short circuit protection on all outputs. Case overload protected @ 110-145% above peak rating
Overvoltage protection	5 V output; 5.7 to 6.7 Vdc; Other outputs 10% to 25% above nominal output
Remote sense	Compensates for 0.5 V lead drop minimum, will operate without remote sense connected. Reverse connection protected

## Environmental Specifications

Operating temperature	0° to 50°C ambient. Derate each output 2.5% per degree from 50° to 70°C, -20°C startup
Storage temperature	-40°C to 85°C
Temperature coefficient	±0.04% per °C
Electromagnetic susceptibility	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3
Humidity	Operating; non-condensing 5% to 95% RH
Vibration	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.75G peak 5 Hz to 500 Hz, operational
MTBF demonstrated	>550,000 hours at full load and 25°C ambient conditions

### Mating Connectors

AC Input	Molex 09-50-8031 (USA) Not required for (-T) option 09-91-0300 (UK); PINS: 08-58-0111
DC Outputs	Molex 09-50-8061 (USA) Not required for (-T) option 09-91-0600 (UK); PINS: 08-58-0113
Remote Sense	Molex 22-01-2025 PINS: 08-52-0113

### Connector Kit #70-841-006, includes all of the above

- Specifications subject to change without notice.
- All dimensions in inches (mm), tolerance is ±0.02" (±0.5mm).
- Mounting holes M1 and M2 should be grounded for EMI purposes.
- Mounting hole M1 is safety ground connection.
- Specifications are for convection rating at factory settings at 115 Vac input, 25°C unless otherwise stated.
- Warranty: 2 year
- Weight: 0.75 lb/0.34 kg

### Power Derating Curve

