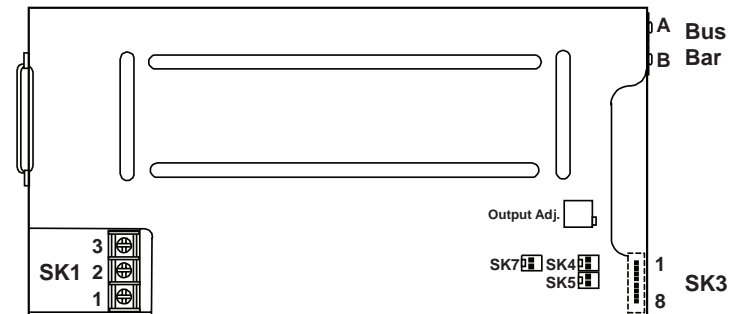


To comply with the published safety standards, the following must be observed when using this power supply:

- Maximum ambient temperature for GLS255-C must not exceed 50°C. Maximum ambient temperature for GLS253-C must not exceed 50°C at 250 W, 21 A or 70°C at 125 W, 10.5 A.
 - 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; including the requirements for 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. Please refer to the specification sheet for the input voltage range.
 - The maximum output power of the supply must not exceed the rating indicated in the specification sheet.
 - This unit contains a secondary output exceeding 240 VA. When installing the unit into the end system, make sure the secondary output and the appropriate wire cannot be touched.
 - 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 F6.3AH, 250 V ac, type 21606.3 manufactured by Littelfuse, type 50CF063H manufactured by Triad, or type S501 manufactured by Cooper.
- NOTE:** Components, such as capacitors, may be positioned in front of the internal fuse. The unit must be protected by a fuse in the end system.
- This equipment is considered Class I according to protection against electric shock.
 - This power supply is 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



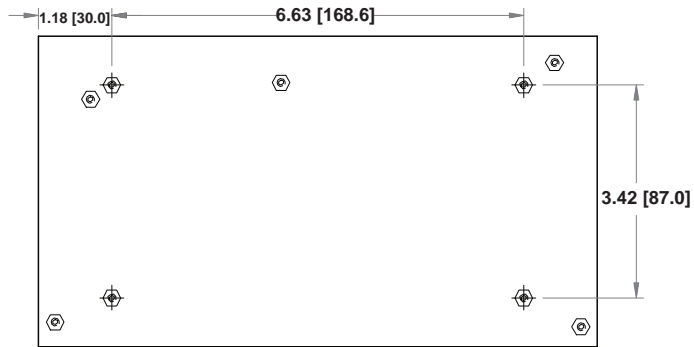
Connector PIN Designation

Input Connector	PIN	GLS253-C	GLS255-C
SK1	1	Neutral	
	2	Line	
	3	Earth GND	
Output Connector	PIN	GLS253-C	GLS255-C
Bus Bar	A	+6 V to +12 V	+24 V to +48 V
	B	Common	
SK3	1	+Sense	
	2	-Sense	
	3	Inhibit (normally open)	
	4	Inhibit (normally closed)	
	5	Common	
	6	C. Share	
	7	P OK	
	8	Dc OK	
SK4	1	Fan (+)	
	2	Fan (-)	
SK5	1	+5 V (aux)	
	2	Common	
SK7	1	Fan (+)	
	2	Fan (-)	

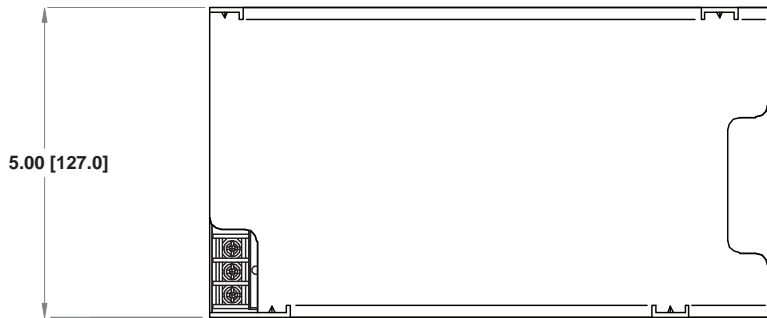
Output Ratings

Model	Output Voltage (V)	30 CFM Forced Air Cooling (unit not convection rated)	
		Max. Output Current (A)	Max. Output Power (W)
GLS253-C	+6 to +12	21.0	250 with cover
GLS255-C	+24 to +48	10.4	

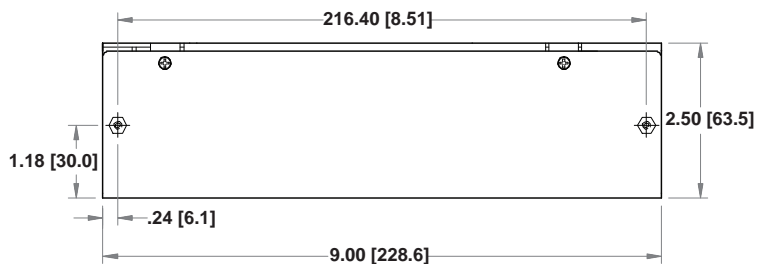
Mechanical Dimensions



Bottom View



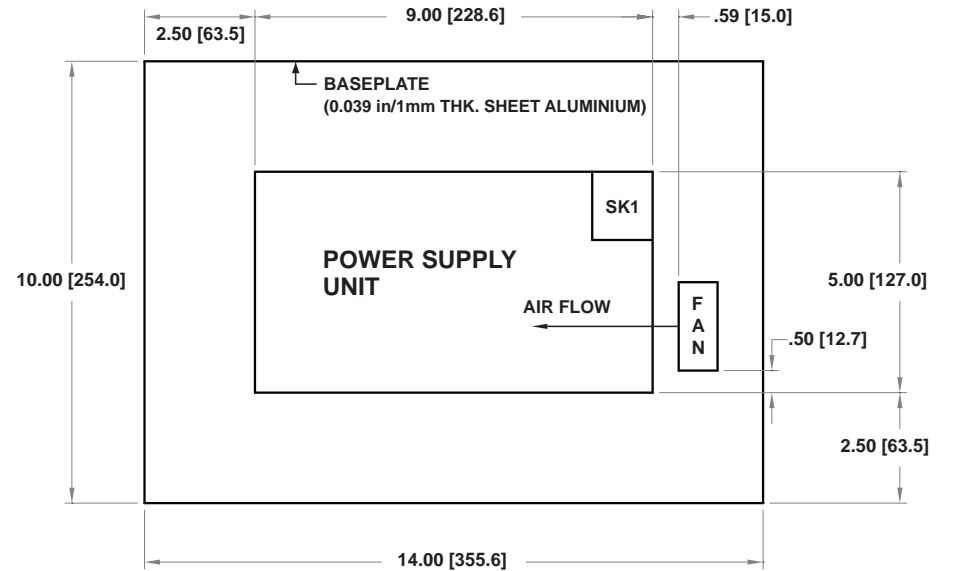
Top View



Side View

All dimension are in inches [mm]
Screw Size: #6-32

Typical Ventilation Setup



Fan Used: Minebea 2410ML-04W-B60, 12 V dc, 0.40 A
Dc Input for Fan Testing: 12 V dc
NOTE: Dimensions and fan used are for reference only

GLS250 Series Specifications

Electrical Specifications

Input	
Input range	85-264 Vac; 120-300 Vdc
Frequency	47-440 Hz
Inrush current	20 A max, cold start @ 25°C
Efficiency	75% typical at full load
EMI filter	FCC Class B conducted and radiated; CISPR 22 Class B conducted and radiated; EN55022 Class B conducted and radiated; VDE 0878 PT3 Class B conducted and radiated
Safety ground leakage current	<0.5 mA @ 50/60 Hz, 264 Vac input
Output	
Maximum power	With cover: 250 W with 30 CFM forced air, (-C) (-CF) (-CEF)
Adjustment range	2:1 wide ratio
Supervisory output	5 V @ 100 mA regulated, 12 V @ 500 mA
Hold-up time	20 ms @ 250 W load, 115 Vac nominal line
Overload protection	Short circuit protection on all outputs. Case overload protected @ 10-145% above peak rating
Overvoltage protection	5 V output: 5.7 to 6.7 Vdc; Other models 10% to 25% above nominal output
Minimum load	1st output: 0.63 A - GLS253-C; 0.32 A -GLS255-C
Logic Control	
Power failure	TTL logic signal goes high 50-150 msec after 5 V output. It goes low at least 4 msec before loss of regulation
Remote on/off	Requires an external contact (N.O. or N.C.) to inhibit outputs
DC-OK	TTL logic goes high 50-150 msec after the output. It goes low when there is loss of regulation
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 at 2.5% per degree from 50° to 70°C
Storage temperature	-40°C to 85°C
Temperature coefficient	±0.4% per °C
Electromagnetic susceptibility	Designed to meet IEC 801, -2, -3, -4, -5, -6, Level 3
Humidity	Operating; non-condensing 5% to 95%
Vibration	Three orthogonal axes, sweep at 1 oct/min, 5 min. dwell at four major resonances 0.7 G peak 5Hz to 500Hz, operational
MTBF demonstrated	>550,000 hours at full load and 25°C ambient conditions

Mating Connectors

SK3	Molex 22-01-1084 PINS: 08-70-0057
SK4	Molex 22-01-3027 PINS: 08-50-0114
SK5	Molex 22-01-3027 PINS: 08-50-0114
SK7	Molex 22-01-3027 PINS: 08-50-0114

Connector Kit #70-841-005, includes all of the above

1. Specifications subject to change without notice.
2. All dimensions in inches (mm), tolerance is ±0.02".
3. Specifications are at factory settings unless otherwise stated.
4. To enable normally closed remote inhibit, cut jumper J1.
5. Mounting maximum insertion depth is .12".
6. Warranty: 2 year
7. Weight: 2.6 lbs/1.19 kg



Phone: (800) 377-4384
Email: tech@solahd.com
www.solahd.com