# SOLAHD GLT20 Series Installation & Operating Instructions

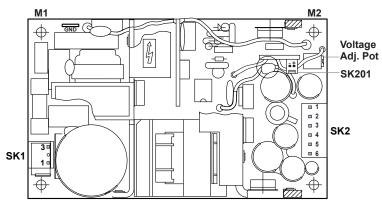
## **Installation & Safety**

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

- 1. 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; including the requirements for creepage distances, clearances, and distance through insulation between primary wiring and earth or secondary (SELV) wiring.
- **3.** 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.
- 5. The earth ground wire must be connected only to the point marked with the earth ground symbol (on the unit).
- **6.** Hazardous voltages exist in the primary circuits. Disconnect the power supply before servicing.
- 7. 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.
- **8.** The internal fuse should only be replaced with a 2.5 A, 250 V ac, type SP0001.1008 manufactured by Schurter AG or type 21602.5 manufactured by Littelfuse.
- 9. 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	GLT22	GLT23	GLT24	GLT25	
SK1	1	Line				
	3	Neutral				
Output Connector	PIN	GLT22	GLT23	GLT24	GLT25	
SK2	1	+12 V		+15 V		
	2	+5 V				
	3					
	4	Common				
	5	Common				
	6	-12 V	-12 V	-5 V	-15 V	
SK201	1	+Sense				
	2	-Sense				

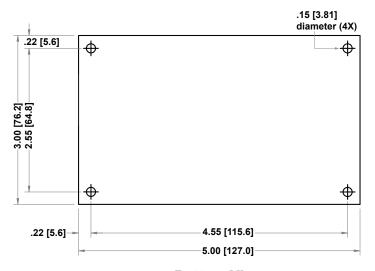
**NOTE:** Mounting holes M1 and M2 should be grounded for EMI purposes. Mounting hole M1 is an earth ground connection.

## **Output Ratings**

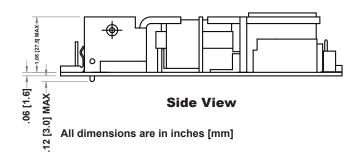
Model	Output Voltage (V)	Convection Cooling		30 CFM Forced Air Cooling	
		Max. Output Current (A)	Max. Output Power (W)	Max. Output Current (A)	Max. Output Power (W)
GLT22	+5	3.0	25	4.0	40
	+12	1.5		2.0	
	-12	0.5		0.7	
GLT23	+5	4.0		5.0	
	+12	0.5		0.7	
	-12	0.5		0.7	
GLT24	+5	3.0		4.0	40
	+12	1.5		2.0	
	-5	0.5		0.7	
GLT25	+5	3.0		4.0	
	+15	1.5		2.0	
	-15	0.5		0.7	

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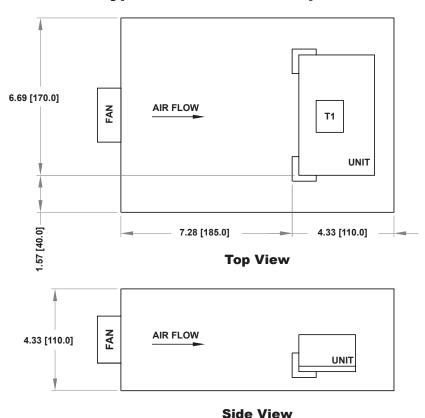
## **Mechanical Dimensions**



#### **Bottom View**



## **Typical Ventilation Setup**



Fan: MINEBEA 3110NL-04W-B30

Fan Input: 12 V dc

NOTE: Dimensions and fan used are for reference only



# **GLT20 Series Specifications**

# **Electrical Specifications**

Input	
Input range	85-264 Vac; 120-300 Vdc
Frequency	47-440 Hz
Inrush current	<15 A peak @ 115 Vac; <30 A peak @ 230 Vac, cold start @ 25°C
Input current	1 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	25 W for convection; 40 W with 30 CFM forced air
Cross regulation	±2% on output 1; ±5% on outputs 2, 3
Adjustment range	-5, +10% minimum
Hold-up time	20 ms @ 25 W load, 115 Vac nominal line
Overload protection	Short circuit protection on all outputs Case overload protected @ 110-145% above peak rating
Overvoltage protection	5.7 to 6.7 Vdc on the main output
Minimum Load	0.3 A first output, 0.1 A second output: GLT22, GLT24, GLT25; 0.4A first output: GLT23
Remote Sense	Compensates for 0.5 V lead drop minimum;Will operate without remote sense connected.  Reverse connection protected.

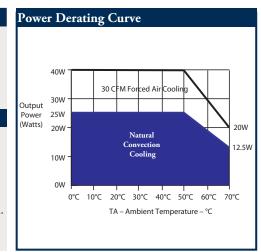
# **Environmental Specifications**

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Operating temperature	0° to 50°C ambient. Derate each output 2.5% per degree from 50° to 70°C, -20°C start up.
Storage temperature	-40°C to 85°C
Temperature coefficient	±.04% 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 0.75G 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: 08-52-0113 DC Outputs Molex 09-50-8061 (USA) Not required for (-T) option 09-91-0600 (UK); PINS: 08-52-0113 Remote Sense Molex 22-01-2025; PINS: 08-52-0123

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

- 1. Specifications subject to change without notice.
- 2. All dimensions in inches (mm), tolerance is ±0.02" (±0.5mm).
- 3. Mounting holes M1 and M2 should be grounded for EMI purposes.
- 4. Mounting hole M1 is safety ground connection.
- 5. Specifications are for convection rating at factory settings at 115 Vac input, 25°C unless otherwise stated.
- 6. Warranty: 2 year
- 7. Weight: 0.5lb/0.23kg





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