Laserglow Product Datasheet

LBS-532 Brightline Pro Line-Projecting Laser



Series Specifications:

Nominal Wavelength	532 nm
Output Type	CW
Laser Source Type	DPSS

Overview:

Laserglow's line-generating laser modules are ideal for any application where a highly visible line projected on to a surface is needed. Laser modules are available with fan angles from 4 degrees to 100 degrees, determining the projected line length at a given distance. The Brightline Pro Green Line generating modules incorporate focus-adjustable optics, greatly increasing the precision for tasks requiring the highest level of accuracy or greater working distance. In addition, green lasers are four to five times more visible to the human eye than red lasers of the same output power, making the Brightline Pro Green lasers a versatile alignment solution for any lighting conditions.

Key Features:

- *Starting at:* **$339**
- *Output Power:* 5 mW to >40 mW
- *Expected Life:* 3000-5000 hours
- *Projection Type (dot/line/cross):* Line
- *Key Feature:* Projects a highly visible focus-adjustable green line for high precision applications.
- *Minimum achievable line thickness:* 0.25 mm at 30 cm
- *Package Includes:* Alignment laser mounted in block (mounting bracket, attenuator and power supply optional)
- *Casing:* Machined Aluminum
- *Line Straightness:* Better than 0.1% over full length

Applications:

- LumberLine Lasers & Stone Cutting Lasers
- Saw Lasers
- Rip saw lasers
- Band Saw Lasers
- Bridge Saw Lasers
- Stone Cutting Lasers
- Laser Docking System For Trucks & Trailers
- Truck Lasers
- Vison Lasers
- Laser crosshair generator
- Torch machine laser crosshairs

Specifications:

This spec sheet has been generated specifically for part number BLG-B1, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to BLG-B1 have been highlighted below in **red + bold**.

Output Power (mW)	**<5**
Output Power Stability (%RMS/4h)	**<20**
IEC Safety Class	**2**
Central Wavelength (nm)	**531.65**
Projection Fan Angle (°, full angle)	**100**
Divergence (mrad, full angle)	**<0.1**
Beam Dimensions (mm, $1/e^2$)	**4**
Minimum Achievable Beam Diameter	**0.25 mm at 0.3 m**
Operating Temperature Range (°C)	**10 to 35**
Max. TTL Modulation Freq. (Hz)	**200**
Modulation Input Signal	**0-5 VDC**
Total Power Consumption (W)	**2**
Max. Power Input Duty Cycle	**100%**
Standard Warranty (months)	**6**
MTTF (operational hours)	**5000**
Weight of Product or Laser Head (kg)	**0.1**
Dimensions of Product or Laser Head (mm)	**80 (l) x 20 (d)**
Power Supply	**3.0 VDC input**

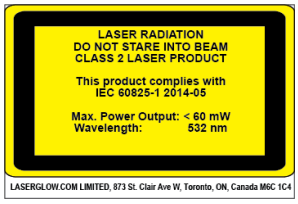
CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.
Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

Power Supply Options:

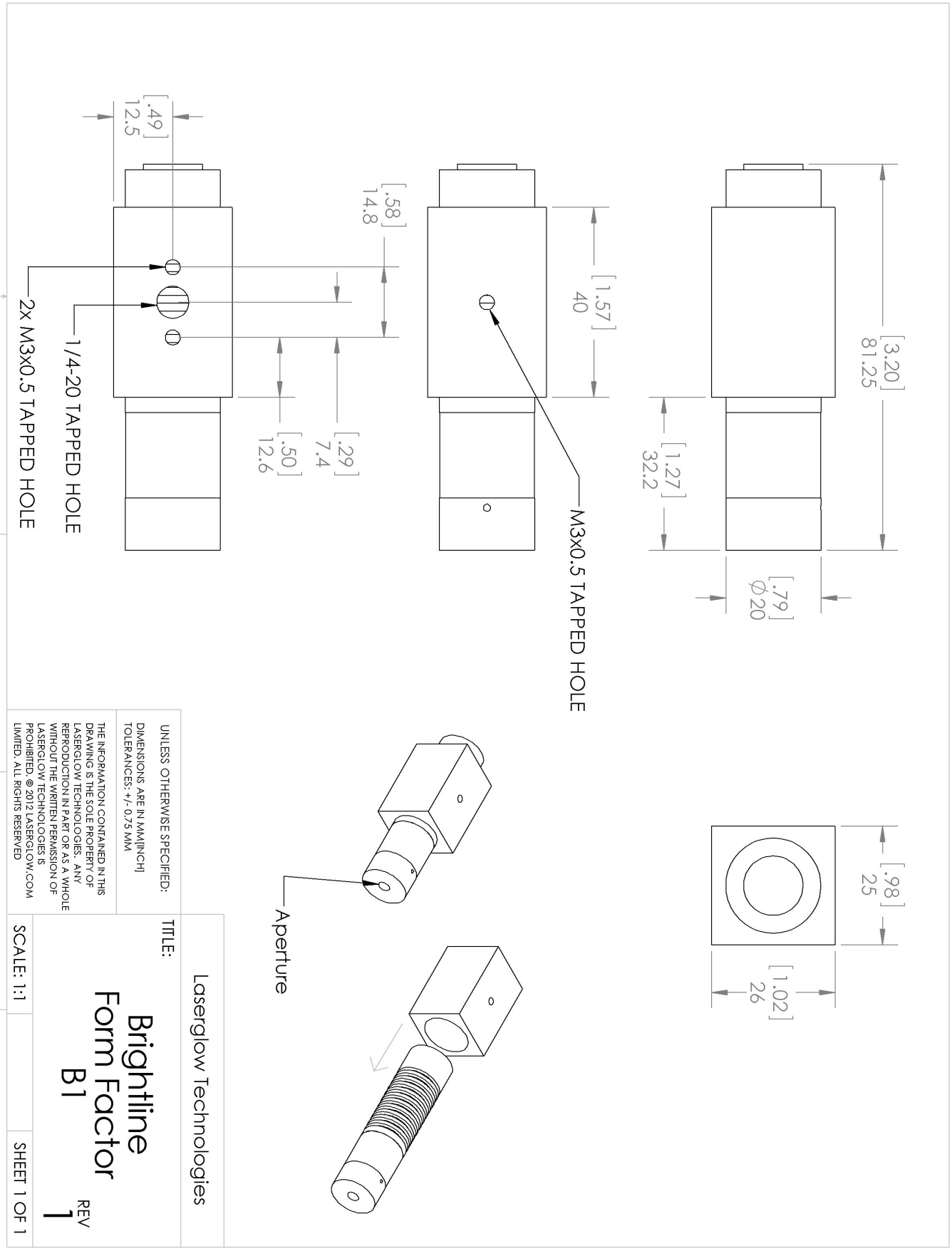
The Brightline Economy and Brightline Pro series of alignment lasers accept direct DC input of 3.0 VDC. The power connector is a 5.5 mm OD, 2.1 mm ID DC Barrel Jack. (center pole positive.) If you do not want to provide DC current directly, we recommend that you use our AC power supply. The model number for the standard North American AC Power Supply is ABP00AFXX and you can find complete details here: www.laserglow.com/ABP. The dimensional drawing for the standard power supply is included on page 5 for your reference.

Regulatory Classification:

The model you have selected (BLG-B1) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: B1:



Accessories:

The most popular accessories for model BLG-B1 are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 ADB002XXX	ADB-deluxe Brightline Deluxe Mounting Bracket V2 Full Details: www.laserglow.com/ADB	Included With Laser
 ABF00AXXX	ABF-N.American Brightline 3V Standard Power Supply (80-260 VAC, N. American plug) Full Details: www.laserglow.com/ABF	Included With Laser
 ABC2SPXXX	2 Lead Brightline Splitter Cable Full Details: www.laserglow.com/ABC	

FOR MORE INFORMATION PLEASE CONTACT:

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E&OE: Data included in this sheet may be subject to change without notice.
Please confirm critical specifications with our staff prior to ordering.