

## PulseLife G-stack

2 to 16 Bar Semiconductor Laser Stacks for Quasi-CW Operation



#### **Features**

- Conduction-cooled 2-bar through 16-bar vertical stacks with up to 3200W <u>O</u>CW output power
- Unique AAA<sup>™</sup> design for highest reliability and lifetime
- PulseLife<sup>™</sup> hard-solder technology
- Custom power, wavelength, temperature and form factor options available

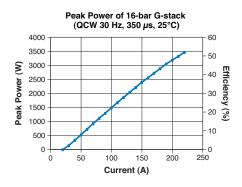
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## PulseLife™ G-stack

### 2 to 16 Bar Semiconductor Laser Stacks for Quasi-CW Operation

Device Specifications		200W/bar G-stack
	Form Factors	
	GH2-7	2 to 7 bar stack
	GH8-16	8 to 16 bar stack
	QCW Output Power, Total (W)	Up to 3200
	QCW Output Power per Bar (W)	200
	Pulse width (usec)	<u>&lt;5</u> 00
	Duty Cycle (%)	<u>&lt;4</u>
	Bar-to-bar spacing (um)	400
	Center Wavelength¹ (nm)	808 ±3
	Wavelength Temperature Coefficient (nm/C)	0.28
	Spectral Width <sup>2</sup> (FWHM)	⟨3
	Fast Axis Divergence (FWHM)	<35
	Slow Axis Divergence (FWHM)	<12
	Polarization	TM
	Threshold Current (A)	30
	Operating Current (A)	⟨220
	Operating Voltage <sup>3</sup> (V)	<2 per bar
	Recommended Operating Temperature (°C)	25
	Recommended Operating Temperature Range <sup>4</sup> (°C)	15 to 35
	Storage Temperature Range <sup>5</sup>	-40 to +60
	Intended Operation Mode	QCW only
Absolute Maximum Ratings	Forward Current (A)	240
· ·	Reverse Current (µA)	25
	Reverse Voltage (V)	2
	<ul> <li>At rated power and operating temperature.</li> <li>At rated power and operating temperature.</li> <li>Total operating voltage varies with bar count.</li> <li>Contact Coherent for extended operating temperature range requirer</li> <li>In clean dry air; non-condensing environment.</li> </ul>	nents (e.g.: 50°C or 80°C operation).

#### **Electrical Characteristics**



Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all PulseLife G-stacks. For full details of this warranty coverage, please refer to the Service section at www.Coherent.com or contact your local Sales or Service Representative.



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