

Water Cooled Diode-Pumped Solid State Laser

DPM-808C-400C-IS(3×4)

Features :

- ♦ High Uniformity of Fluorescence Distribution
- ♦ Macro Channel Cooling
- ♦ High Reliability
- ♦ Compact Size

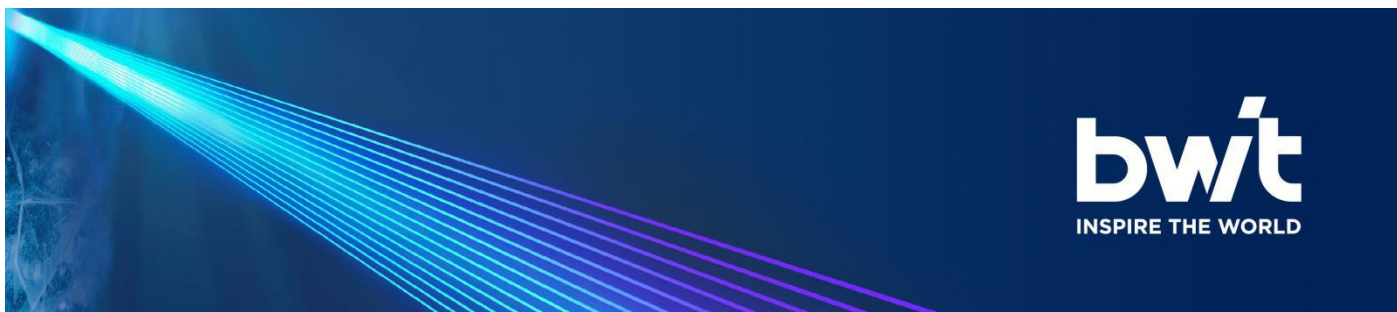
Applications :

- ♦ Solid State Laser Pumping
- ♦ Material Processing
- ♦ Medical



BWT, founded in 2003, is committed to the mission of "let the dream drive the light", the vision of becoming the "Global leader in laser solutions", and the value of "Outstanding innovation", providing diode laser, fiber laser, ultra-fast laser products and solutions to global customers.

The company pursues continuous innovation and insists on autonomous and controllable advanced process and technology. With Beijing headquarters as the core, BWT has successively established production and R&D centers in Jiangsu, and Shenzhen, and invested in the construction of an intelligent and digital production base in Tianjin. To build a high level of technical strength and product quality, BWT set up a German subsidiary in 2020, and taking a solid step for the internationalization of R&D, production and technological innovation.



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Specifications (25°C)		Symbol	Unit	DPM-808C-400C-IS(3×4)		
				Minimum	Typical	Maximum
Optical Data ⁽¹⁾	CW Output Power	P _O	W	400	-	-
	CW Power per Bar	P _O	W	34	-	-
	Center Wavelength	λ	nm	806	808	810
	Spectral Width(FWHM)	Δλ	nm	-	3	5
	Output Height of Light	H	mm	-	45	-
	Wavelength Shift with Temperature	Δλ/ΔT	nm/°C	-	0.28	-
Electrical Data	Electrical-to-Optical Efficiency	PE	%	-	62	-
	Threshold Current	I _{th}	A	-	5	8
	Operating Current	I _{op}	A	-	30	35
	Operating Voltage	V _{op}	V	-	21	25
	Slope Efficiency	η	W/A	-	16	-
Basic Data	Number of Bars	/	pcs	12		
	Crystal Material	/	/	Nd:YAG 0.6% Dope		
	Crystal Diameter	D	mm	-	2	-
	Crystal Length	L	mm	-	67	-
	Pumping Length	L	mm	-	43	-
Others	Storage Temperature ⁽²⁾	T _{st}	°C	-10	-	55
	Operating Temperature ⁽³⁾	T _{op}	°C	-	25	-
	Water Flow Rate	Q	LPM	5	-	-
	Water Pressure	P	MPa	-	-	0.5
	Relative Humidity	RH	%	15	-	50

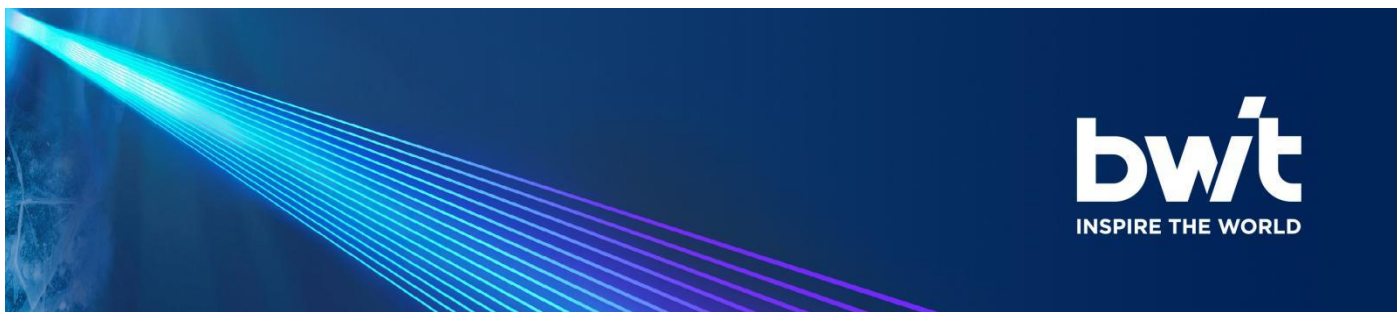
(1) Data measured under operation at nominal output power @25°C.

(2) A non-condensing environment is required for operation and storage.

(3) Operating temperature defined by the package case.

(4) The data above are for reference only. For specific data, please refer to the delivery package data.

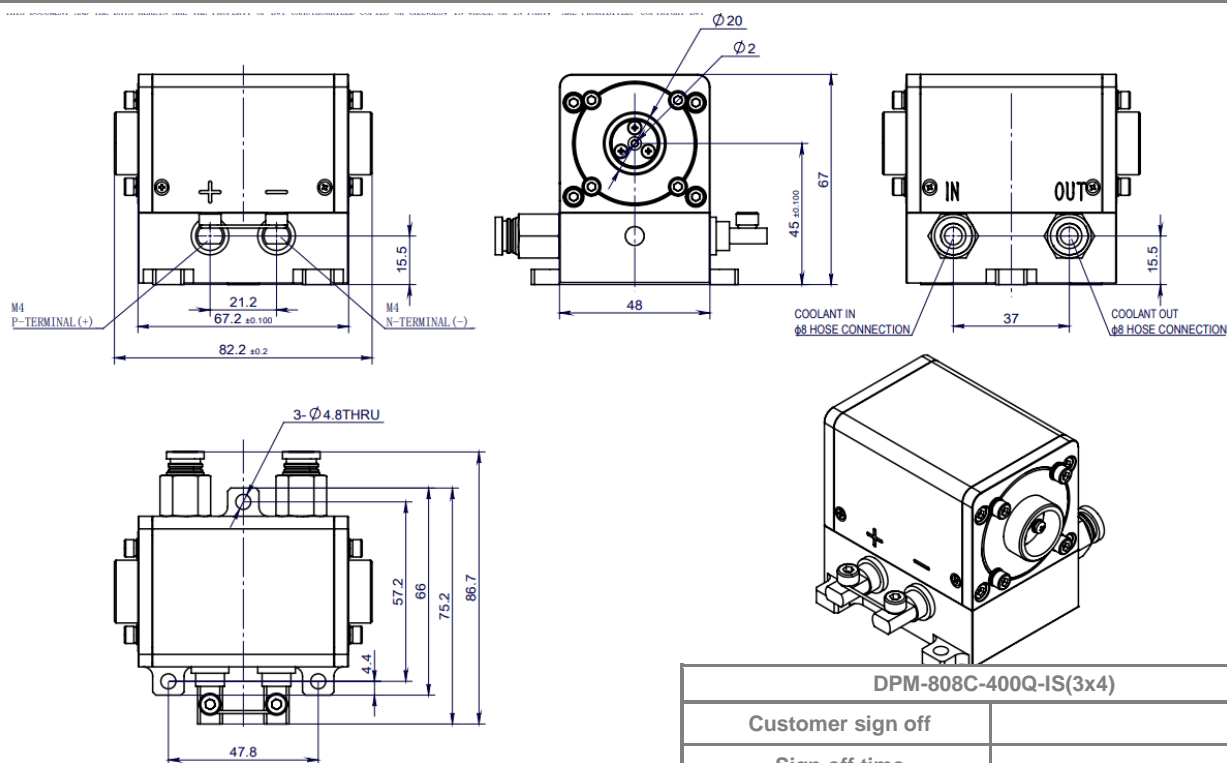
(5) Other wavelengths and configurations on customer request.



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Package Dimensions (mm)



OPERATING NOTES

- ◆ Avoid eye and skin exposure to direct radiation during operation.
- ◆ ESD precautions must be taken during storage, transportation and operation.
- ◆ Short-circuit is required between pins during storage and transportation.
- ◆ Laser diode must work with good cooling.
- ◆ Operation temperature ranges from 15°C to 35°C .
- ◆ Storage temperature ranges from -10°C to +55°C.



Declaration: information and specifications contained herein are deemed to be reliable and accurate. BWT Beijing reserves the right to change, alter or modify the design and specifications of these products at any time without notice.21-1