

## Stabilized, Gratingless Tuned, Medium Power CO<sub>2</sub> Laser

## **Model MeritS Specifications**

Model	MeritS	MeritSP
Wavelength (µm)	around 10.6	around 10.6
CW Power (W)	8	6 (average)
Peak Power (W)	8	24
Power Stabilty	±2%	±2%
Mode Quality (M <sup>2</sup> )	< 1.1	< 1.1
Beam Waist Diameter	2.4 mm	2.4 mm
Waist Location	Output Coupler	Output Coupler
Full Div. Angle	5.5 mrad	5.5 mrad
Rise Time (µs)	200	100
Fall Time (µs)	200	100
Supply Voltage (DC)	28V 240W	48V 240W
Electronic PWM Parameters	Any frequency up to 100 kHz, duty cycle 0-100%	Any frequency up to 100 kHz, duty cycle 0-25%, pulse length to 0.4 ms
Cooling Requirement	Fan Cooled Closed Loop	Fan Cooled Closed Loop
Working Temperature	5-40° C	5-40°
Dimensions (LxWxH, inch)	14x5x4	14x5x4



MeritSD has features of both MeritS and MeritSP when the appropriate DC power

supply is used.

Photo shows Merit laser mounted with some options. Left: DC supply (not included), middle: RF driver (always included), Right: Laser

Factory Warranty: One year on parts and labor due to manufacturing quality, regardless of laser usage

## **Options:**

- Water cooling
- Real time power monitor

- Optimized for 9.3µm wavelength
- Stabilization to ±1% with Line Tracker

\* Includes RF driver & laser controller

- \* Specifications subject to change without notice.
- \* We strive to satisfy custom requirements. Please contact us if you have other special needs.

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