

*User Manual*  
*EnergyMax™ Sensors*



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**Table 2. MaxBlack EnergyMax Sensor Specifications**

	J-50MB-HE	J-50MB-LE	J-25MB-HE	J-25MB-LE	J-10MB-HE	J-10MB-LE
Energy Range	1 mJ -2J	250 $\mu$ J - 500 mJ	500 $\mu$ J - 1J	25 $\mu$ J - 50 mJ	10 $\mu$ J - 20 mJ	300 nJ - 600 $\mu$ J
Noise Equivalent Energy	< 33 $\mu$ J	< 8 $\mu$ J	< 16 $\mu$ J	< 1 $\mu$ J	< 0.5 $\mu$ J	< 20 nJ
Wavelength Range ( $\mu$ m)	0.19 - 12	0.19 - 12	0.19 - 12	0.19 - 12	0.19 - 12	0.19 - 12
Active Area Diameter (mm)	50	50	25	25	10	10
Max. Avg. Power (W) <sup>a</sup>	10	10	5	5	4	4
Max. Pulse Width ( $\mu$ s)	17	17	17	17	17	17
Max. Rep. Rate (pps)	300	300	1000	1000	1000	1000
Max. Energy Density (mJ/cm <sup>2</sup> ) (@ 1064 nm, 10 ns)	500	500	500	500	500	500
Sensor Coating	MaxBlack	MaxBlack	MaxBlack	MaxBlack	MaxBlack	MaxBlack
Diffuser	No	No	No	No	No	No
Calibration Wavelength (nm)	1064	1064	1064	1064	1064	1064
Calibration Uncertainty (%)	$\pm$ 2%	$\pm$ 2%	$\pm$ 2%	$\pm$ 2%	$\pm$ 2%	$\pm$ 2%
Linearity (%)	Refer to "Measurement Linearity" on page 25.					
Cable Length (m)	2.5	2.5	2.5	2.5	2.5	2.5
Cable Type	J DB-25	J DB-25	J DB-25	J DB-25	J DB-25	J DB-25
Item Number	1110573	1110576	1110746	1110743	1110843	1110855

a. The maximum average power specification in the table above is when the sensor is used without a heat sink. See "Increasing Average Power With Heat Sinks" on page 21 for information describing how optional heat sinks can increase the average power handling capability of these sensors.