ERMAKSAN

LASER SOURCES FOR MILITARY APPLICATIONS





THE POWER BEHIND YOUR NATIONAL SECURITY



LASER SOURCES FOR MILITARY LASER SYSTEMS

High-energy laser sources are essential components within directed-energy laser weapon systems, serving as powerful fiber laser beam generators capable of inflicting permanent or temporary damage on designated targets. Unlike traditional munitions, high-energy lasers offer a critical advantage: an “infinite magazine,” allowing for continuous operation as long as electrical power is available. This cost-effective defense solution not only minimizes logistical demands but also delivers precision with minimal collateral damage, making it an ideal choice for the protection of military assets and critical infrastructure. ERMAKSAN’s Single Mode Fiber Lasers, designed to integrate with diverse platforms such as fixed installations, land vehicles, and naval vessels, effectively neutralize threats like drones, mini UAVs, improvised explosive devices (IEDs), and fixed-wing aircraft. These high-reliability, military-grade systems meet rigorous operational standards, providing adaptable and resilient defense across all domains.





	SPECIFICATION	2,5 kW Laser Power			5 kW Laser Power		
		Min.	Typ.	Max.	Min.	Typ.	Max.
OPTICAL PROPERTIES	Operation Mode		CW			CW	
	Output Power (W)		2500			5000	
	Emission Wavelength (mm)		1080			1080	
	Laser Beam Quality (M2)		1,25		1,60	1,90	2,50
	Delivery Fiber Length (m)		5		3	6	10
	Fiber Connector		QBH			QBH	
GENERAL CHARACTERISTICS	Operating Ambient Temp.(°C)	0	+20	+40	0	+20	+40
	Storage Temperature (°C)	-30	+20	+50	-30	+20	+50
	Vibration		MIL-STD-810G			MIL-STD-810G	
	Mechanical Shock		MIL-STD-810G			MIL-STD-810G	
	EMI / EMC		MIL-STD-461F			MIL-STD-416F	
	Cooling Method		Water Cooled			Water Cooled	
ELECTRICAL CHARACTERISTICS	Operating Voltage(3phs) (VAC)	200	380	480	200	380	480
	Frequency (Hz)		50	60		50	60
	Power Consuption(DC) (W)	7200	7600	8000	15000	16000	17000
	Control Interface		ETHERNET / IO			ETHERNET / IO	
	Connector Interface		MIL-DTL-38999 and MIL-DTL-5015			MIL-DTL-38999 and MIL-DTL-5015	

KEY ADVANTAGES

01 — Precision Targeting

Disables or destroys a wide range of threats with pinpoint accuracy, minimizing collateral damage.

02 — Enhanced Protection

Safeguards military forces and civilian populations.

03 — Infinite Magazine

Provides continuous operation without the need for ammunition resupply.

04 — Cost-Effective Per Intercept

Offers a highly economical solution for each engagement.

05 — Platform Flexibility

Seamlessly integrates with various military platforms and systems.

06 — All-Environment Readiness

Built to perform in any combat environment.



ABOUT ERMAKSAN

Founded in 1965 in Turkey, ERMAKSAN operates across multiple businesses, including metal fabricating machinery, additive manufacturing technology, semiconductor laser systems, and advanced defense solutions. In its defense division, ERMAKSAN is developing high-energy laser sources that integrate with air, sea, and ground defense platforms to effectively protect by disabling or destroying various threats. With substantial investments in semiconductor and defense systems, ERMAKSAN collaborates with Türkiye’s Secretariat of Defense Industries (SSB) to deliver cutting-edge defense technologies.

Contact us today to discuss your defense needs.

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