

UC INSTRUMENTS CORP. LWS CA6061 Series Work Bench Laser Welding Systems

**Technical Specifications Ver 1.01
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 UC INSTRUMENTS CORP.

LWS CA6061 Series Laser Welding Systems

The UC INSTRUMENTS CORP. LWS Series are end-pumped laser welding systems including the newest generation of semi-conductor laser technology. The systems can be integrated into the top standard configurations appropriate to various applications in the global market due to their excellent features.

Features

- High welding strength/speed, narrow and smooth welding joints, consistent height and high stability

- Narrow welding joints and smooth surface

- No treatment or simple treatment after welding

- Consistent welding and high stability

- Tiny width of welding joints, small thermal effect zone, trivial variation of outline dimension and hardness

- No pores to prevent material oxidation effect after adding protection gas during welding

- Repairable cracks, edge chipping, edges and wearing sealing sides

- Low power consumption to save cost greatly

Applications

Widely employed in welding metals & alloys such as titanium, nickel, zinc, copper, aluminum, chromium, gold, silver, iron and kovar alloy; as well as dissimilar metals such as copper-nickel, nickel-steel, copper-titanium and brass-copper

Variety of industries including communication, digital products, electronic elements, batteries, sensors, clocks, glasses, jewelry, hardware, precise machines, medical appliances, automobile fittings and craft gifts

LWS Series of System Specifications

Model#	CA6061-60	CA6061-120	CA6061-300
Laser wave length	1,064 nm	1,064 nm	1,064 nm
Average output power (max.) average output	60 W	120 W	300 W
Maximum single shot energy	30J	70J	100J
Maximum single shot energy (@3ms pulse width)	11J	30J	50J
Maximum peak pulse power	4.5 kW	10.5 kW	12 kW
Pulse width	0.1-30 ms	0.1-30 ms	0.1-20 ms
Pulse frequency	0~100 Hz	0~100 Hz	0~100 Hz
Stability	< 2%	< 2%	< 2%
Maximum power consumption	2.0 KW	3.3 KW	6.5 KW

UC INSTRUMENTS CORP.'s Supports, Services and Assistance

UC INSTRUMENTS CORP. provides high performance, high value, affordable instrument solutions for our customers. Our extensive support sources can help you choose right UC INSTRUMENTS CORP.'s products for your specific applications and apply them successfully. Every instrument /system we sell has a global warranty. All of our instruments are with at least 18 months factory warranty.

Our Promise

All of UC INSTRUMENTS CORP.'s instruments and systems meet their advertised performance and functionality. When you select a UC INSTRUMENTS CORP.' product, we can help your product operation with our extensive experiences, and provide the basic measurement assistance for the use of special capabilities.

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