



## Intelligent Handheld Laser Welder

### YLPS-Weld-1500-A

The world's first active air conditioning direct cooling technology, can work continuously in the range of  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ , not afraid of the impact of ambient temperature, small fiber core diameter design, greatly improve the beam quality under the same power, high energy density, stable welding performance, support long-term welding work.

#### Advantages

- Triple protection design, built-in air pressure detection device, welding anti-stay;
- Based on 976nm pumping technology, EO conversion rate of optical module is  $\geq 42\%$ ;
- Strong environmental adaptability, working environment temperature  $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ;
- Built-in 55 groups of application process data packets, selected according to the application scenario, without too much process exploration, can easily get started.

#### Applications

A wide range of welding materials: different thickness of steel (such as carbon steel, galvanized steel), aluminum alloy, copper, stainless steel, etc., widely used in kitchen, guardrail, doors and Windows and other hardware welding market.

The professional performance laser series of GW is aimed at customers who have the pursuit of product performance indicators, the replacement of imported products or the product functionality requirements. Product design to the first-line brand, with better product performance indicators, perfect functions, design redundancy is greater, to provide customers with more value-added space.

- AAC direct cooling, laser chip operating temperature fluctuation is small, long-term reliable and stable operation
- ABR super anti-high reaction technology, can easily weld high reaction materials
- Independently developed hand-held welding gun, light weight, the welding process is not tiring
- Self-developed SMAT intelligent operation series, easy to operate



EO conversion  
efficiency  $\geq 42\%$



Easily weld high  
anti materials



SMAT Intelligent  
operating system



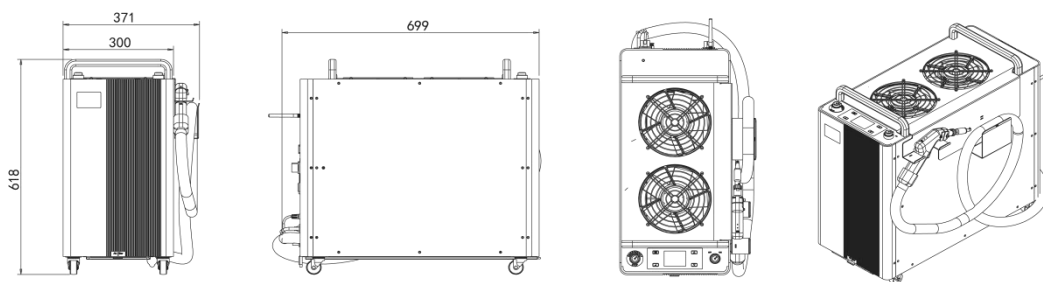
Run continuously  
for 24h

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## YLPS-Weld-1500-A

Product specification parameter	YLPS-Weld-1500-A
Output Power (watt)	1500
Operating Mode	CW/Modulation mode/Linear mode/Pulse/Timing mode
Output Power Range (%)	1-100
Output Laser Wavelength (nm)	1080±10
Max. Modulation Frequency	50kHz
Wobble Way	Single
Cable Length (m)	5±0.5 (Customizable)
Cooling Method	Active air cooling
Ambient Temperature Range (°C)	-20~50
Input Voltage	220VAC/50Hz
Dimension (mm)	699 x 371 x 618 (L×W×H)
Weight (kg)	< 62

Unit: mm



Legal Notice: All product information is believed to be accurate and subject to change without notice.

Legal statement:

GW smart fiber laser products are designed in strict accordance with safety regulations. All production is in accordance with international standards and regulations currently in force in the country. Each GW laser has a warning sign as shown in the figure.

MAX. AVERAGE OUTPUT POWER: 12 kW  
MAX. PEAK OUTPUT POWER: 20 kW  
PULSE DURATION: 0.2-2 ms  
PULSE REPETITION RATE: 50 Hz-10 kHz  
WAVELENGTH RANGE: 900-1200 nm

DANGER - INVISIBLE LASER  
RADIATION AVOID EYE OR SKIN  
EXPOSURE TO DIRECT OR  
SCATTERED RADIATION  
CLASS 4 LASER PRODUCT

IEC 60825-1:2014



GW(Shanghai) Laser Technology Co.,Ltd. Tel: +86 2139721122 Email: sales@gwlaser.tech

Web: [www.gwlaser.tech](http://www.gwlaser.tech) Addr: Building 5-1, No.398, Shuanglian Road, Xujing Town, Qingpu District, Shanghai