



## Intelligent Handheld Laser Welder

### YLPS-Weld-3000-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
- Self-developed SMAT intelligent operation series, easy to operate



EO conversion  
efficiency  $\geq 42\%$



Easily weld high  
anti materials



SMAT Intelligent  
operating system

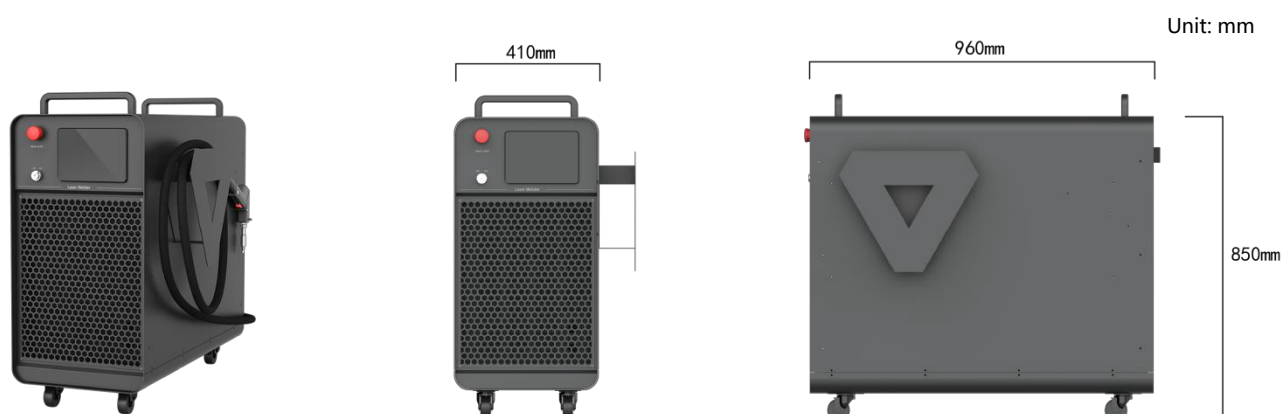


Run continuously  
for 24h

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## YLPS-Weld-3000-A

| Product specification parameter   | YLPS-Weld-3000-A        |
|-----------------------------------|-------------------------|
| Output Power (watt)               | 3000                    |
| Operating Mode                    | CW                      |
| Output Power Range (%)            | 5-100                   |
| Output Laser Wavelength (nm)      | 1080±10                 |
| Delivery Fiber Core Diameter (μm) | M <sup>2</sup> ≤4.5     |
| Respond Time (μs)                 | < 100                   |
| Cable Length (m)                  | 10±0.5 (Customizable)   |
| Cooling Method                    | Active air cooling      |
| Ambient Temperature Range (°C)    | -20~50                  |
| Input Voltage                     | 380VAC/50Hz             |
| Power Consumption (kWh)           | 10                      |
| Dimension (mm)                    | 410 x 960 x 850 (L×W×H) |



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

### Legal statement:

GW laser products are designed in strict accordance with safety regulations. All products are in accordance with international standards and regulations currently in force in the country. Each GW laser products have safety warning signs as shown here.

MAX AVERAGE OUTPUT POWER: ≤3000W  
WAVELENGTH RANGE: 915~1130nm  
DANGER-VISIBLE AND/OR INVISIBLE  
LASER RADIATION  
AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED RADIATION  
CLASS 4 LASER PRODUCT  
IEC 60825-1:2014  
EN 60825-1:2014+A11:2021

AVOID EXPOSURE  
VISIBLE AND/OR INVISIBLE  
LASER RADIATION  
IS EMITTED FROM THIS APERTURE  
IEC 60825-1:2014  
EN 60825-1:2014+A11:2021

VISIBLE LASER RADIATION  
CLASS 2 LASER PRODUCT  
DO NOT STARE INTO BEAM  
MAX AVERAGE POWER: 1mW  
WAVELENGTH RANGE: 600~700nm  
IEC 60825-1:2014  
EN 60825-1:2014+A11:2021



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