



## QCW Fiber Laser

**YLP-QCW-300/3000-W**

QCW fiber lasers are ideal for long pulse, high energy applications due to their diverse compatibility and control modes and flexible and adjustable pulse width waveforms. In precision metal cutting, ceramic cutting, drilling applications more delicate processing, higher precision, can meet the 3C fine welding, antenna welding and other applications.

### Advantages

- Flexible adjustable pulse width waveform, various control modes
- Small fiber core, high beam quality, fine process
- Output mode option Pulse/CW, various application requirements
- Compact design, higher integration and easier installation

### Applications

Can cooperate with laser processing head, galvanometer and robot, machine tool system integration, do laser fine cutting, precision welding processing, used in 3C, hardware, medical, automotive, aviation and other fields.

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.

- Pulse width waveform is flexible and adjustable
- High beam quality and high laser output stability
- Small size, easy to integrate



Small size



Easy to integrate



Output core diameter  
can be customized

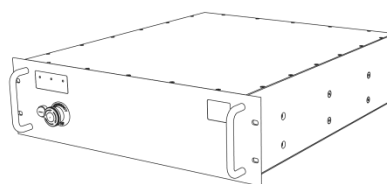
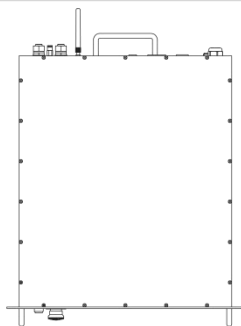
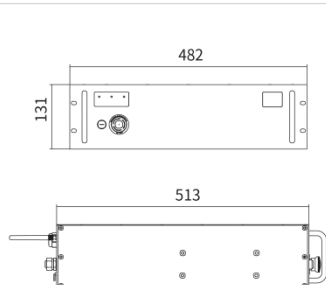


Excellent beam  
quality

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## YLP-QCW-300/3000-W

| Product specification parameter                                        | YLP-QCW-300/3000-W         |
|------------------------------------------------------------------------|----------------------------|
| Output Power (watt)                                                    | 300W                       |
| Peak Power (watt)                                                      | 3000W                      |
| Operating Mode                                                         | CW/ Pulse                  |
| Output Laser Wavelength (nm)                                           | 1080±10 nm                 |
| Beam Quality                                                           | $M^2 \leq 1.8$             |
| Interface Type                                                         | QBH                        |
| Delivery Fiber Core Diameter<br>(conventional configuration, optional) | 20um                       |
| Pulse Width                                                            | 0.01~50ms                  |
| Single Pulse Energy                                                    | 30J                        |
| Max. Modulation Frequency                                              | 50kHz                      |
| Cooling Method                                                         | Water-cooling              |
| Ambient Temperature Range (°C)                                         | 5-45°C                     |
| Input Voltage                                                          | 380VAC/50Hz                |
| Dimension (mm)                                                         | 590 x 482 x 131 mm (L×W×H) |
| Weight (kg)                                                            | < 25kg                     |



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