



Single-mode Fiber Laser

YLLS-40D-W

High-efficiency 976nm pumping technology with high EO conversion efficiency, adopts brand-new appearance design, all-aluminium body, lighter weight, smaller volume, small core diameter of output fiber, with high beam quality, which is mainly used for high-reflective material processing, laser fine cutting, precision welding processing.

Designed for welding applications

Advantages

- Based on the high efficiency 976nm pump design, high electro-optical conversion efficiency;
- With remote Internet of Things access capability, can achieve remote services;
- Small size, light weight, easy to integrate.

Applications

High-power single module, stronger processing capability, can be combined with laser processing head, galvanometer, etc. with robots, machine tools and other system integration, mainly used for high anti-material processing, laser fine cutting, precision welding processing.

GW's economical laser series is oriented to the user group with the ultimate cost performance requirement, taking economy as the core, taking into account high quality and low price, which can fully meet the daily production and use needs of customers.

- New exterior design, all aluminum body
- 976nm high performance pumping technology, EO conversion efficiency $\geq 40\%$
- Excellent beam quality, anti-reflection design, suitable for a variety of high reflective materials processing applications
- The output core diameter can be customized to meet multiple application requirements



EO conversion efficiency $\geq 40\%$



Easily process high anti materials



$M^2 \leq 1.4$

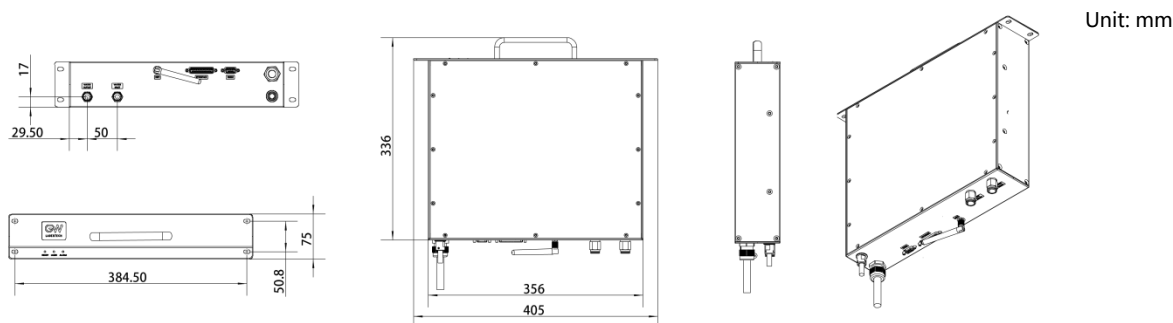


Remote lot access

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Product specification parameter	YLLS-40D-W
Output Power (watt)	1200
Operating Mode	CW/Pulse
Output Power Range (%)	1-100
Output Laser Wavelength (nm)	1080±10
Beam Quality	$M^2 \leq 1.4$
Interface Type	QBH
Delivery Fiber Core Diameter (conventional configuration, optional)	25um
Cooling Method	Water-cooling
Ambient Temperature Range (°C)	5-45
Input Voltage	220VAC/50Hz
Dimension (mm)	405 x 336 x 75(L×W×H)
Weight (kg)	15



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



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