

AAC CW Fiber Laser

YLPM-12000-A

The world's first active air cooling technology, temperature control is more accurate, fearless of the impact of ambient temperature, effectively improve the power stability of the laser, the whole machine is free of maintenance protect. 976nm high efficiency pumping technology, with ultra-high EO conversion efficiency, optical conversion efficiency.

Advantages

- Cross-era multi-module 10,000-watt air-cooled laser, using active air conditioning direct cooling technology
- Strong environmental adaptability, not afraid of high temperature and cold, working environment temperature -20~50℃
- High system integration, low weight of the whole system, reduce the difficulty of customer assembly and integration
- The cooling system is maintenance-free and requires no coolant replacement
- The cooling system operates on demand and has low standby power consumption

Applications

Widely used in laser cutting, laser welding, laser cladding, laser brazing, laser surface heat treatment, etc., the application of hardware, medical, automotive, shipbuilding, aviation, construction machinery 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.

- AAC technology, accurate temperature control
- CHF Condensed High-brightness Flat-top Technology, improve cutting speed and meet cutting consistency requirements
- ABR anti-reflection design, suitable for a variety of high reflective materials processing applications
- SMAT Intelligent operating system, intelligent monitoring



EO conversion efficiency $\geq 42\%$



Easily process high anti materials



SMAT Intelligent operating system

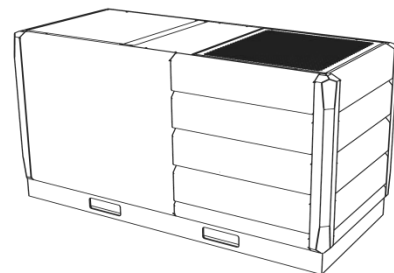
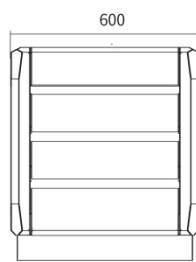
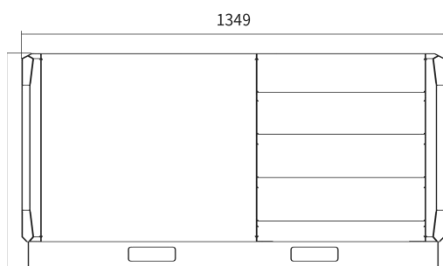


AAC technology

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Product specification parameter	YLPM-12000-A
Output Power (watt)	12000
Operating Mode	CW/Pulse/Built-in program
Output Power Range (%)	1-100
Output Laser Wavelength (nm)	1080±10
Beam Quality	$M^2 < 4.5$
Interface Type	QBH
Delivery Fiber Core Diameter (conventional configuration, optional)	50um
Cooling Method	Active air cooling
Ambient Temperature Range (°C)	-20~50
Input Voltage	380VAC/50Hz
Dimension (mm)	1349 x 600 x 680 (L×W×H)
Weight (kg)	< 260



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



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