

Diode Laser System for Material Processing

DLight® Series



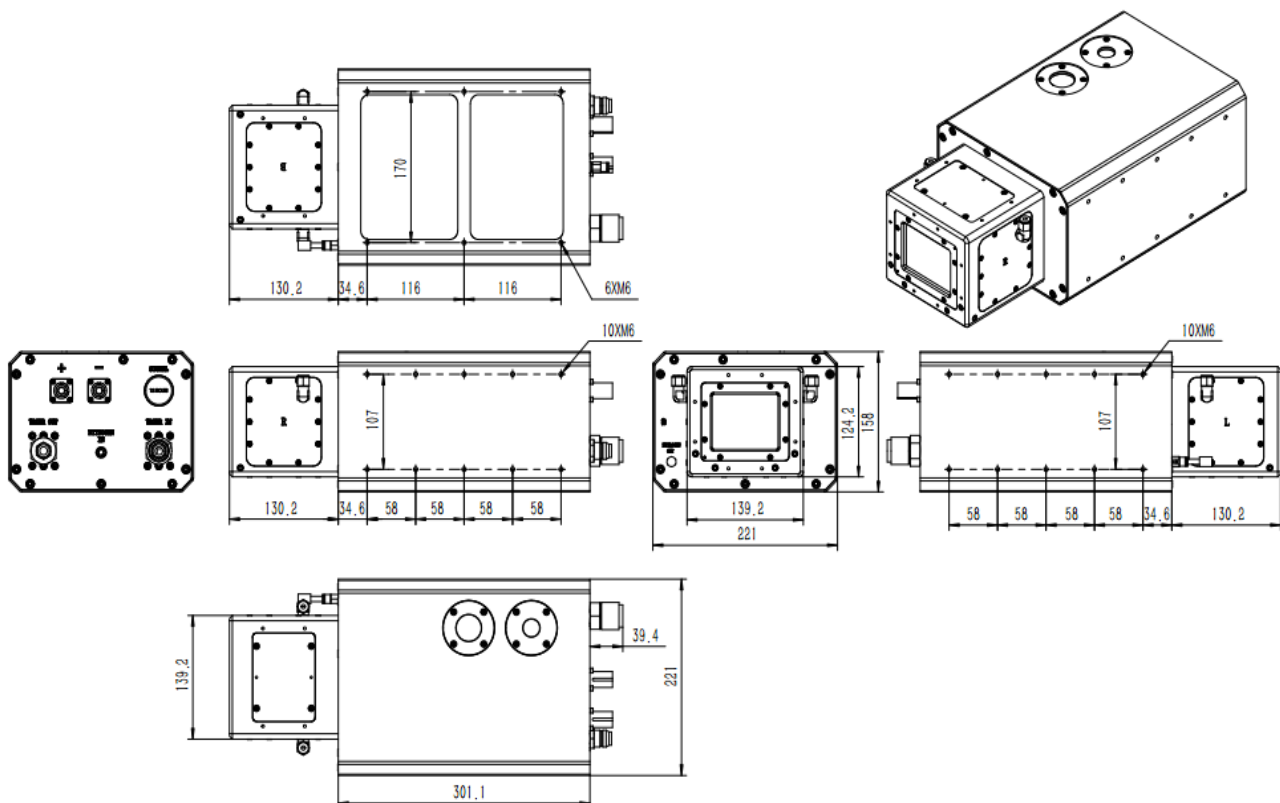
Features

- Excellent surface quality
- High processing speed
- Small footprint
- High E/O efficiency
- High reliability
- Best protection & monitoring

Applications

- Metallurgy
- Mould remanufacturing
- Petrochemical machinery
- Power plant

Product Dimensions (mm)



Remark: The structure drawing is only for reference. For any other special requirement, please feel free to contact us.

Product Specifications

Product Code	DLT000004	DLT000001	DLT000002
Part No. ¹	FL - DLight3 - 4000	FL - DLight3 - 6000	FL - DLight3 - 6000

Optical Parameters ²	Unit	Value		
Operation Mode	-	CW	CW	CW
Output Power ³	W	4000	6000	6000
Power Stability	%	≤ 1	≤ 1	≤ 1
Wavelength	nm	800 - 1000	800 - 1000	800 - 1000
Power Conversion Efficiency	%	≥ 50	≥ 50	≥ 50
Working Distance	mm	300 ± 10	285 ± 10	285 ± 20
Beam Size	mm	14 × 2	14 × 2	20 × 2
Dimension	mm	454 × 246 × 163	454 × 246 × 163	454 × 246 × 163
Weight	kg	< 15	< 25	< 25

Electrical Parameters ⁴				
Input Current	A	~ 25	~ 50	~ 50
Input Voltage	V	380	380	380
Max Operating Current	A	~ 110	~ 110	~ 110
Max Operating Voltage	V	~ 80	~ 130	~ 130

Ambient Parameters ⁵				
Operating Temperature	°C	5 ~ 45	5 ~ 45	5 ~ 45
Storage Temperature	°C	0 ~ 65	0 ~ 65	0 ~ 65
Cooling Method	-	Water - cooling	Water - cooling	Water - cooling
DI Water Quality	µS/cm	2 ~ 5	2 ~ 5	2 ~ 5

Optional		Power Supply/Controller/ Chilling System	Power Supply/Controller/ Chilling System	Power Supply/Controller/ Chilling System
Optional	-			

¹ Part No. = Brand Code - Series - Power.

² Data at operating temperature, unless otherwise stated.

³ Reduced lifetimes if used above nominal operating conditions.

⁴ Electrical Parameters standard by test report.

⁵ A non-condensing environment is required for storage and operation below ambient dew point.

