singlemode fiber laser



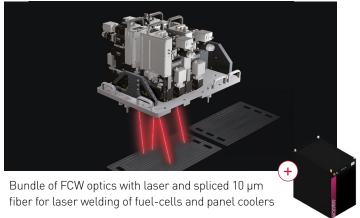
MODULAR LASER SOURCES WITH 1 – 2 kW POWER AND SPLICED FIBERS OF 10 – 14 μm

Brightlight lasers are offered in combination with various Scansonic optics for laser welding, brazing, cladding, cutting and hardening. Brightlight is supported by Scansonic's worldwide sales and service network as well as Scansonic's development teams.



APPLICATION EXAMPLES





LASER SPEC.

| Operation mode | Singlemode |
|-----------------------------|-------------------------|
| Polarization | random |
| Central emission wavelength | 1070 nm |
| Output Power | 1-8*1000 W / 1-8*2000 W |
| Power range | 1% - 100% |
| Output emission bandwith | +/-5 nm |
| Modulation frequency | 50 kHz |
| Switching time | 5 μs |

OPTICAL OUTPUT SPEC.

| Delivery cable connector | QBH |
|---|---|
| Delivery Diameter / color / cable type | 13 mm / yellow / metal shielded cable |
| Beam quality M ² | 10 μm < 1,05 / 14 μm < 1,1 |
| Delivery cable diameter output | 10 μm (max 1 kW) / 14 μm |
| Delivery cable length | 5 m (10 m on request by limeted beam quality) |
| Delivery cable length | 5 m (10 m on request |

ELECTRICAL SPEC.

| Voltage | 220 V - 240 V (1 kW, L+N+PE) / 360 V - 440 V (2 kW, L1-L3 +N+PE) |
|--------------------|--|
| Max. input current | 16 A (each 1 kW laser) / 7 A (each 2 kW laser) |
| Frequency | 50 Hz – 60 Hz |
| Max. input power | 3 kW (each 1 kW laser) / 6 kW (each 2 kW laser) |

MECHANICAL SPEC.

Dimensions (LxHxB)

Cabinet size small 892 mm x 433 mm x 744 mm

Cabinet size medium 868 mm x 543 mm x 1013 mm

Cabinet size large 995 mm x 960 mm x 1203 mm

Weight 125 kg – 400 kg







up to 5 single mode laser



up to 8 single mode laser

ENVIRONMENTAL SPEC.

| Operation temperature range | 0 °C - 40 °C |
|-----------------------------|----------------|
| Storage temperature range | -10 °C - 50 °C |
| Operation humidity | 0% - 95% |
| Storage humidity range | 0% - 95% |

COOLING SPEC.

| Water temperature | 20 °C – 25°C |
|-------------------|---|
| Water pressure | 3 bar – 5 bar |
| Flow rate | 12 l/min (each 1 kW laser) / 20 l/min (each 2 kW laser) |
| Cooling capacity | 2 kW (each 1 kW laser) / 4 kW (each 2 kW laser) |



