

RFL-P50QB

Raycus 50W Q-Switched Pulse Fiber Laser

Data Sheet V1.0

Raycus has launched its 50W Q-switched pulsed fiber laser series, an industrial-grade solution designed for marking and micro machining applications. This series of pulsed lasers is characterized by high peak power, high single-pulse energy, and optional spot diameter, making it a versatile tool for various industrial needs.



In the field of marking applications, these lasers offer a cost-effective alternative to traditional lasers, with the added advantage of more stable performance. Beyond marking, they are also well-suited for precision machining and graphic engraving, providing high-quality results across a range of tasks.

Product Features

- Highly Stable Laser Output
- High Single-pulse Energy
- High Marking Efficiency

- Short Pulse Setup Time
- High Reliability
- Maintenance-free Operation

Product Applications

- Material Processing
- Marking
- Deep Carving
- Cleaning
- Precision Welding
- Micro-Processing

- Metal Film Cutting & Piercing
- Metal Drawing
- Texturing
- Silicon Processing
- Resistance Adjustment
- ITO Film Etching



Technical Specifications

1060~1085 nm	Output power tunability	10-100 %
50 W	Output fiber cable length	3.0 M
Random	Working voltage	24±1 VDC
Yes	Power consumption	340 W @20℃
1 mj @50kHz	Cooling	Forced Air Cooled
<1.6 m ²	Dimension W×D×H	260×116×340 mm
7±1 mm	Operating temperature	0~40 °C
120-150 ns @50kHz	Store temperature	-20∼60 °C
50 - 100 kHz	Operating humidity	≤80%
	50 W Random Yes 1 mj @50kHz <1.6 m² 7±1 mm 120-150 ns @50kHz	50 W Output fiber cable length Random Working voltage Yes Power consumption 1 mj @50kHz Cooling <1.6 m² Dimension W×D×H 7±1 mm Operating temperature 120-150 ns @50kHz Store temperature

Product Dimensions



