



TKLR-445-50 DATA SHEET

445nm 50W CW TURNKEY LASER UNIT



The TKLR-445-50 produces up to 50 W of laser light at 445 nm. This is a version of Flash Photonics' TKLR series of rack unit turnkey laser solutions. An integrated controller manages the complexities of temperature and transient control, delivering stable output power and wavelength without external tuning. The laser can be controlled fully through its USB port or and DSUB15 connection for analog control. At 50W, the TKLR-445-50 is a Class 4 laser, delivering the high-power output demanded by industrial and research applications, backed by integrated interlock and safety monitoring for reliable operation.

Wavelength	445 nm
Output Power	50 W
Power Stability	<1% RMSE
Modulation Options	USB Serial and DSUB15 Analog Interface
Beam Quality	Multimode
Output Style	Fiber Output
Safety Features	Remote Interlock Emergency Stop LED Indicators Guide Beam Integration
Input Voltage	100-130 VAC / 60 Hz
Cooling	Air-cooled
Warranty	1-year warranty and support

Applications:

- Silicon Wafer Processing
- Copper & Reflective Metal Processing
- Battery Manufacturing & R&D
- Precision Soldering & Heating
- Plastic Welding
- Materials Processing
- Scientific Research
- OEM Integration

