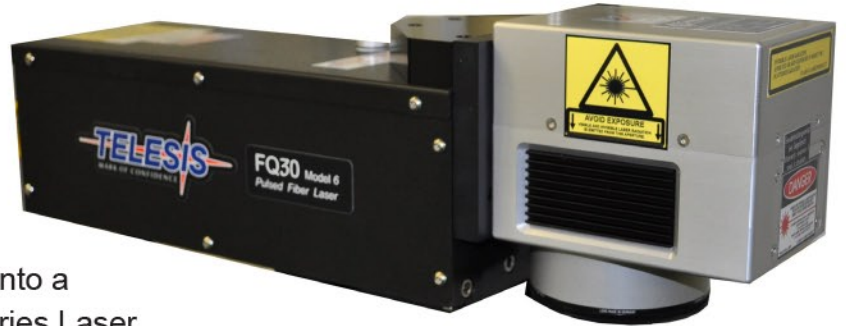




## F-Series - FQ50, FQ30, FQ20 and FQ10 Fiber Laser Marking Systems

The TELESIS FQ50 is the latest laser in a family of maintenance free Q-switched ytterbium fiber lasers specifically designed for marking applications with average power levels from 10-50W. These lasers deliver a high power laser beam directly to the marking head via a flexible metal sheathed fiber optic cable. The fiber based optical design and rugged mechanical design allows these markers to operate in an industrial environment where shock, vibration and dust are a concern. The F-Series fiber marker's unique design allows the overall package to be very small and modular for ease of integration into a variety of industrial applications. The F-Series Laser Marking Systems offers a best in class 100,000 hour MTBF diode reliability with no water cooling requirements, and only single phase 110/220VAC power requirements.



### STANDARD LENS CONFIGURATIONS

FOCAL LENGTH	MARKING FIELD
100mm.....	65mm X 65mm (2.56" X 2.56")
160mm.....	90mm X 90mm (3.54" X 3.54")
163mm.....	110mm X 110mm (4.33" X 4.33")
254mm.....	175mm X 175mm (6.89" X 6.89")
330mm.....	230mm X 230mm (9.06" X 9.06")
350mm.....	250mm X 250mm (9.84" X 9.84")
420mm.....	290mm X 290mm (11.42" X 11.42")

### SOFTWARE

Software.....**MERLIN® II LS**  
 Operating System.....Windows® 2000, Windows XP,  
 Windows Vista™, Windows® 7, or Windows® 8  
 with Optional Embedded, Desktop or Rackmount PC  
 Communication Interface.....Serial, TCP/IP, I/O



Model 6  
Series Controller

### LASER MARKER SPECIFICATIONS

Compliance.....	CDRH, CE, CSA, UL
Wavelength.....	1,060nm
Laser Type.....	Q-Switched Ytterbium Fiber Laser
Average Power FQ50/30/20/10.....	50/30/20/10W
Peak Power FQ10.....	>4kW
Peak Power FQ50/30/20.....	>8kW
Beam Quality FQ50/30/20/10.....	M <sup>2</sup> < 2
Fiber Length FQ10.....	5 meters (16.4ft.) Std.
Fiber Length FQ50/30/20.....	3 meters (9.8ft.) Std.
Long Term Power Drift.....	< +/- 5%
Optical Isolator.....	Standard
Positioning.....	Visible Red Diode Light
Mounting Weight.....	6.8kg (15lbs.)
Marking Head Dimensions.....	51.0(L)x12.7(W)x14.0cm(H) (20.1 x 5.0 x 5.5in.)
Dimension with Selected Lens (H).....	
100mm:	14.4cm (5.7in.)
160mm:	14.2cm (5.6in.)
163mm:	15.8cm (6.2in.)
254mm:	17.2cm (6.8in.)
330mm:	17.8cm (7.0in.)
350mm:	15.9cm (6.3in.)
420mm:	17.8cm (7.0in.)
Model 6 Controller Dimensions.....	42.7(W)x14.5(H)x50.8cm(D) (16.8 x 5.7 x 20.0in.)
Laser Marking Head Cable.....	5m (16.4ft.), detachable
Laser Extension Cable.....	3m (10.0ft.), detachable
Input Power (Selectable).....	95-250VAC, 50/60Hz
Maximum Power Consumption FQ50.....	Less than 400W
Maximum Power Consumption FQ30.....	Less than 280W
Maximum Power Consumption FQ20.....	Less than 250W
Maximum Power Consumption FQ10.....	Less than 200W
Cooling.....	Air Cooled, Fan/Filter (no water cooling required)
Operating Temperature Range.....	15° to 35°C (55° to 95°F)
Humidity.....	10% to 85% Non-condensing



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