



PowerLine® E 8 QT

UV Laser Sub-System for High Throughput Plastics Marking

The PowerLine E 8 QT delivers high-speed, non-contact marking of glass, polycarbonates and other organic materials with superior aesthetics and legibility. This sub-system includes an 8 W UV laser, a high-speed scanner and focusing optics, plus, a power sensor, mechanical safety shutter and pilot laser. The combination of compact size and air-cooling allow easy integration into handling systems, making it an ideal choice for system builders supporting microelectronics, medical products, automotive manufacturing, packaging and appliance production. It also comes with Coherent's powerful VLM/VMC marking software.

FEATURES & BENEFITS

- 6 W UV laser power for high-speed marking - sufficient for all UV marking applications
- Compact size ensures easy integration
- Low operating costs through air-cooling and extended UV lifetime
- Compartments inside laser head for mounting beam expander, Fast-Focusing Module (optional) or attenuator (optional)

APPLICATIONS

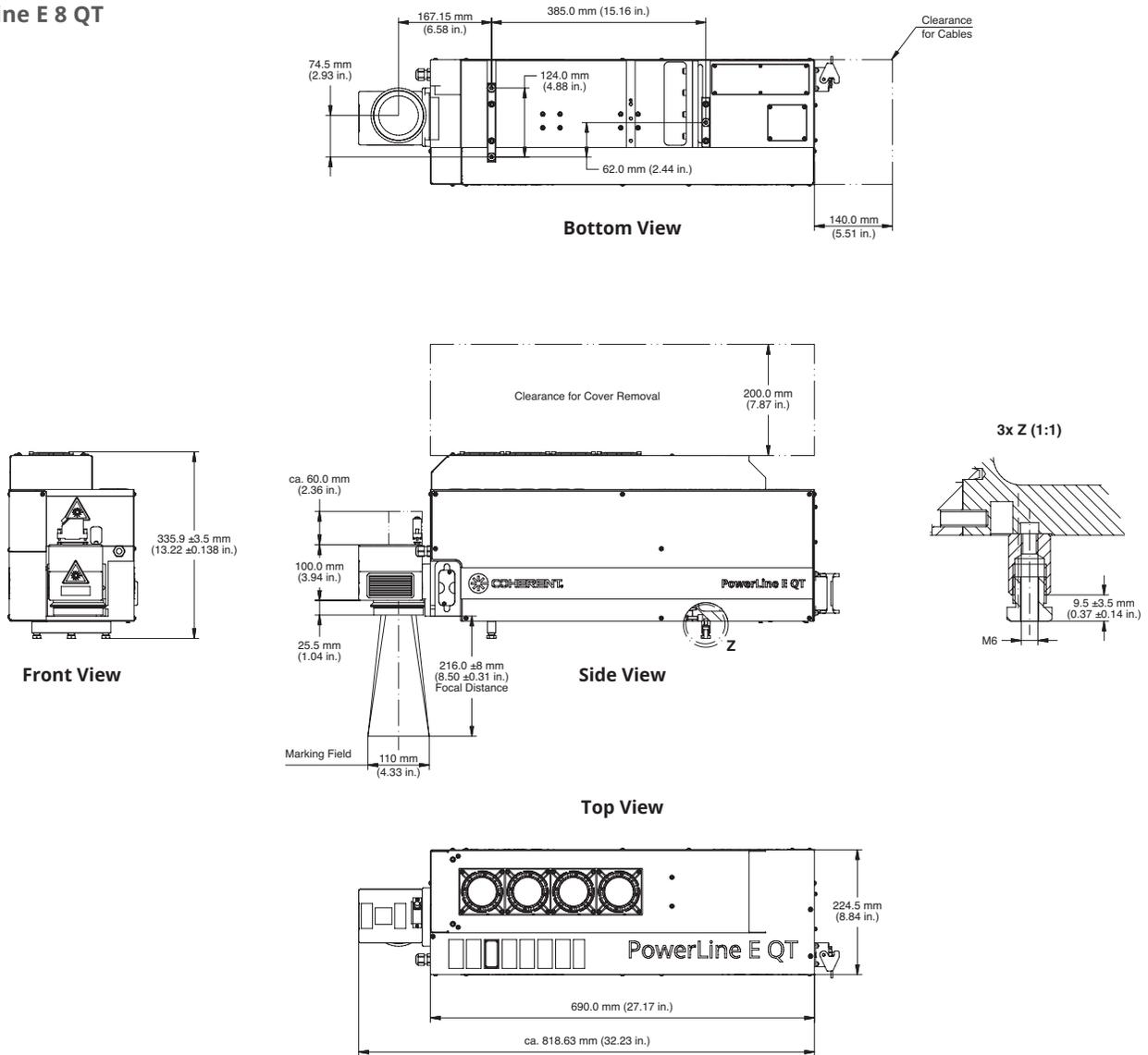
- Microelectronics
- Medical Products
- Automotive Parts
- Packaging and Converting
- Appliance Production



| SPECIFICATIONS | PowerLine E 5 QT (AC) | PowerLine E 8 QT (AC) |
|---|--|---------------------------|
| Wavelength (nm) | 355 | |
| Average Power (W) at flange at work piece | 4 (45 kHz) >3 (45 kHz) | 7 (45 kHz) >6 (45 kHz) |
| Frequency Range (kHz) | 20 to 135 | |
| Pulse Energy (μJ) | up to 65 (45 kHz) | up to 130 (45 kHz) |
| Pulse Width (ns) | <30 | <25 |
| M ² | <1.2 | |
| Beam Waist (mm) | 1.3 ±0.2 | |
| Controller | RCU - ITX | |
| Software | VLM 5.3, Windows 10 IoT Enterprise 2016 LTSC | |
| Chiller | Fans (air-cooling) | |
| Dimensions (L x W x H) | 821 x 231 x 336 mm (32.3 x 9.1 x 13.2 in.) | |
| Environmental Temperature | 15 to 35°C (59 to 95°F) | 15 to 30°C (59 to 86°F) |

MECHANICAL SPECIFICATIONS

PowerLine E 8 QT



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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent offers a limited warranty for all PowerLine E 8 QT Lasers. For full details of this warranty coverage, please refer to the Service section at www.coherent.com or contact your local Sales or Service Representative. MC-025-19-0M0619 Copyright ©2019 Coherent, Inc.





