

## MLT-PL-R-OEM65 MLT-PL-P-OEM65 Series

### KeyFeatures

- High energy (up to 200μJ)
- PM version available up to 200μJ
- Wide range of fixed pulse duration available from 500ps to 1.25μs
- Excellent beam quality ( $M^2 < 1.1$ )
- Burst mode
- Adjustable pulse width on few ns
- Monitor output
- Internal or external TTL or LVDS trigger
- Maintenance free operation
- Highly reliable laser diode pumps
- Compact & rugged design
- Low power consumption
- Air cooled
- Custom versions available

### Applications

- LIDAR
- Target ID
- Mapping
- Telemetry
- 3D scanning
- Range finding
- Topography scanning
- Weather and pollutant detection
- OPO pumping
- YOUR APPLICATION

### For moreInfo

Please contact us at:  
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or via e-mail at [sales@3spgroup.com](mailto:sales@3spgroup.com)

## LUSKENN+ Product Line 1.5μm High Power Compact Pulsed Fiber Laser

The LUSKENN+ serie is an extension of the LUSKENN serie where average output power has been pushed from 7W to 16W in a very compact unit (230 x 178 x 65 mm<sup>3</sup> only). The consequence of this change is in the energy per pulse (up to 200μ J). MLT-PL-R-OEM65 is optimised for LIDAR, telemetry or range finding application. The design and configuration of this laser render it unique and reliable.

Our patented “Injection Technology” allows the use of highly reliable broad area laser diode pumps, for a cost-effective and maintenance-free operation. The allfibre design guarantees the robustness of the system, without any optical parts to align or to stabilise. The LUSKENN is an open platform for your specific requirements : adjustable pulse width on few ns, internal or external LVDS or TTL trigger, monitor output for synchronization, burst mode for pulse monitoring.

The simple integration of the OEM system requires no afterinstallation service. Power consumption is reduced to the minimum with extended operation temperatures. Obviously, custom configurations are possible, polarization maintaining version (MLT-PL-P-OEM65 series).



## LUSKENN+ Product Line

1.5µm High Power Compact  
Pulsed Fiber Laser



### MLT-PL-R-OEM65 Series

### SPECIFICATIONS\* STANDARD CONFIGURATIONS

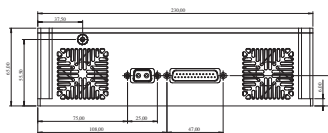
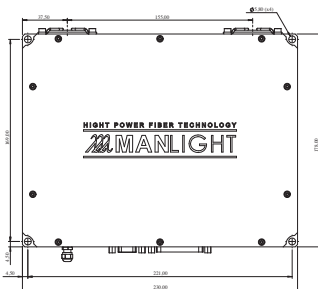
| Parameter                                  | Value                         | Unit            |                                                     |
|--------------------------------------------|-------------------------------|-----------------|-----------------------------------------------------|
| Operation mode                             | Pulsed                        | -               |                                                     |
| Seed laser wavelength                      | 1550 typ.                     | nm              | Other wavelengths available                         |
| Average output power                       | up to 16                      | W               |                                                     |
| Pulse duration                             | from 0.5 to 1250              | ns              | Fixed duration in the range                         |
| Pulse repetition frequency                 | from 5 to 2000                | kHz             | in a limited range depending on pulse width and ASE |
| Output pulse energy                        | ≤ 200                         | µJ              |                                                     |
| Peak power                                 | up to 17                      | kW              |                                                     |
| Output power tunability                    | 1 – 100                       | %               |                                                     |
| Long term stability (RMS, over 1h@25°C)    | < +/- 1                       | %               |                                                     |
| Polarization                               | Random                        | -               | PM optional                                         |
| Output fibre length                        | typ. 50                       | cm              | mini 15 cm                                          |
| Output fibre termination                   | Collimated beam               | -               |                                                     |
| Laser linewidth (FWHM)                     | <0.2                          | nm              | 0.15 nm typical                                     |
| Typical beam diameter @1/e <sup>2</sup>    | 2,4                           | mm              |                                                     |
| Beam quality M <sup>2</sup>                | <1.1                          | -               |                                                     |
| Dimensions                                 | 230 x 178 x 65                | mm <sup>3</sup> |                                                     |
| Weight                                     | <4                            | Kg              |                                                     |
| Operation Temperature                      | 0 to +50                      | °C              | -35 to +65 optional                                 |
| Control mode                               | Continuous operation or burst | -               |                                                     |
| Connector                                  | SUBD25/SUBDW                  | V               |                                                     |
| Operating voltage DC                       | 12-36                         | V               |                                                     |
| Typ. power consumption (nom. power @ 25°C) | <250                          | W               |                                                     |

Ordering Information:  
MLT-PL-R-OEM65-xx-yy-zz  
MLT-PL-P-OEM65-xx-yy-zz  
xx = pulse duration in ns  
yy = pulse repetition frequency in kHz  
zz = energy in µJ

- Options:
- Adjustable pulse duration (few ns)
  - Internal or external trigger
  - TTL or LVDS trigger
  - Collimated output
  - Burst mode
  - Monitor output
  - Customised specs on request
  - Extended warranty



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Please note: information in this document is typical and must be specifically confirmed in writing by your supplier before it becomes applicable to any order or contract. Information is subject to change without notice.

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## ORDERING INFO

Please contact your Sales Manager. 3SPGroup can also develop custom products to meet a wide range of technical requirements.

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