

SLD-based broadband light sources (all standard products)

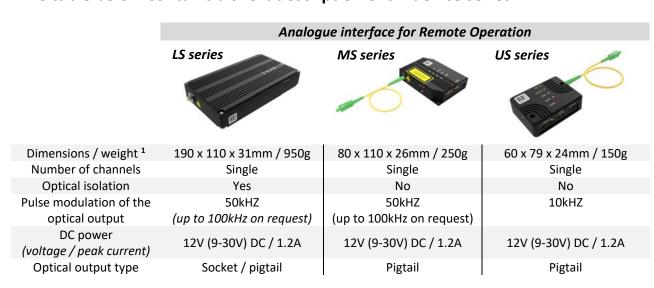
Description

These series of SLD-based broadband light sources are designed for OEM applications. The light sources are ready-to-use compact devices that incorporates in a single unit an optical part and its driving electronics. The optical part of these light sources consists of a cooled SLD-module (or, depending on a part number, of up to three broadband SLD-modules with slightly shifted spectra, the emission of which is combined) and, optionally, an optical isolator. The driving electronics comprise a single or, depending on a part number, multiple high-precision, low-noise current and temperature controllers.

We offer a broad range of products, six device series, which can meet any specific requirements:

- Interfaces for Remote Operation: analogue or digital (USB) interfaces are available;
- **Optical performance:** single-, double-, or triple-channel optical output featuring ultra-broadband and high-power performance;
- Optional isolation of the optical output;
- Dimensions.

The table below contains a short description of six device series.

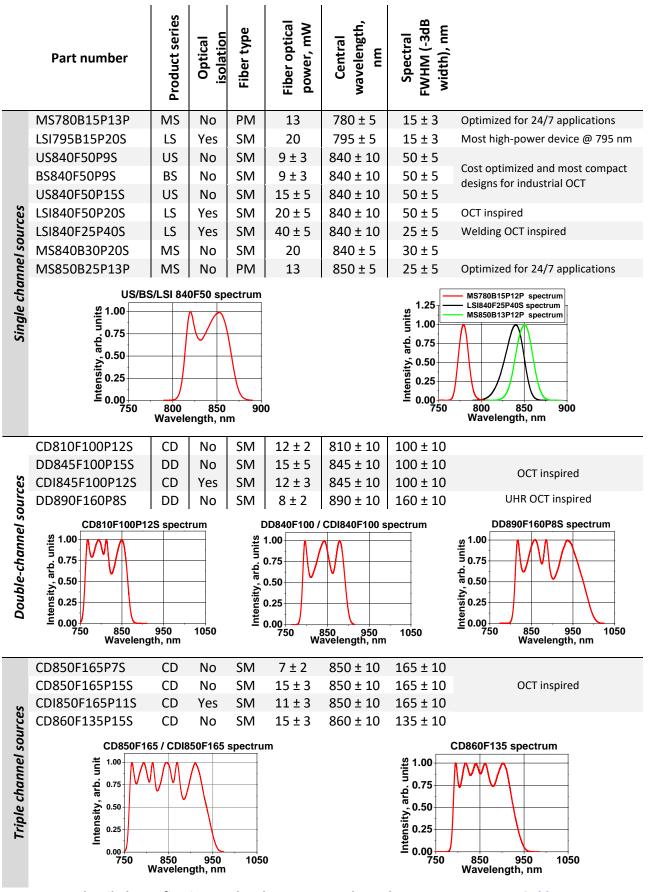


Dimensions / weight -	60 X 45 X 21.5mm / 100g	100 x 120 x 31mm / 400g	190 X 110 X 31mm / 950g
Number of channels	Single	Double	1-, 2-, or 3- channels
Optical isolation	No	No	On request
Pulse modulation of the optical output	10kHz	No	No
DC power (voltage / peak current)	$5\pm0.25 V$ DC / 1.5A	5 ± 0.25V DC / 3.5A	12V (9-15V) DC / 2.5A
Optical output type	Pigtail	Socket	Socket / pigtail

¹ – weight without an optical isolator.

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The table below contains standard light sources for different applications.



For more detailed specification on the above part numbers please contact support@sldsources.com

Product customization

We are capable to customize our products to meet any specific requirements:

- **optical performance specifications.** Other wavelengths are available (670 nm and the range from 900 to 1100 nm), output optical power can be fine tailored to a specific requirement, and so on.
- optical isolation. Optical isolation can be added to selected device series.
- **Device series.** The products series designed for a certain number of channels are generally interchangeable.
- **Fiber connectors.** The standard type of fiber connectors and sockets is FC/APC. Other types of fiber connectors are available on request, including SC/APC, LC/APC, E2000, as well as PC-type connectors (for optically isolated sources only).
- **Optical fiber.** Single-channel sources can be assembled with any type of fiber listed below. Double- and triple-channel sources are assembled with SM fibers.

SM and PM fibers:

Spectral range	Singlemode (SM) isotropic fiber	Polarization maintain (PM) fiber
650-700nm	FiberCore SM600 fiber	Corning PANDA PM63-U25D
750-950nm	Corning HI 780	Corning PANDA PM 85-U25D
950-1100nm	Corning HI1060	Corning PANDA PM980

MM fibers: Corning 50/125/250 μm, Corning 62.5/125/250 μm, ThorLabs GIF 625-100.

