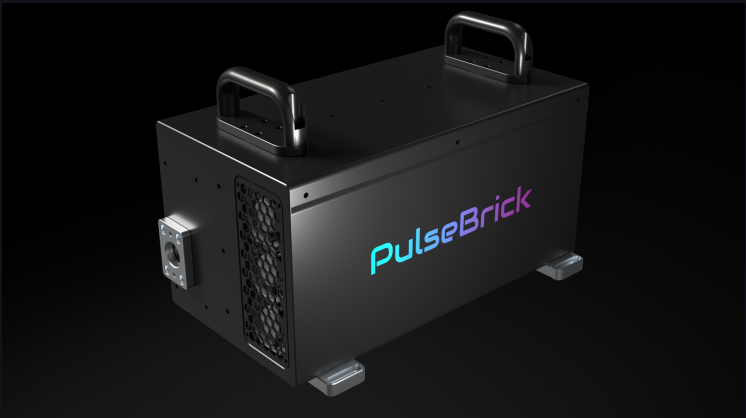


The essential femtosecond laser.

Simple controls. A defined source.
Optical engineering to help you integrate it.

APPLICATION TRIALS ONGOING



Nominal optical configuration

Parameter	Nominal value	Definition / reference
Average output power	10 W	Factory output setpoint.
Pulse energy	Adjustable up to 25 µJ	25 µJ nominal mean at 400 kHz and 10 W.
Pulse repetition rate	400 kHz	Factory operating point; no user-adjustable rate range is specified.
Pulse duration	800 fs	Nominal final output.
Central wavelength	515 nm	Standard output wavelength.
Beam waist diameter	2 mm	1/e ² intensity diameter; waist 100 mm beyond the output aperture.
Beam quality	M ² < 1.5	Current nominal specification.

Nominal values describe the current factory configuration, not a measured acceptance result. The supplied unit report records measured performance, configuration and test conditions.

Technical basis: PB-MAN-001, OEM Integration Manual revision 0.17, 18 October 2026. Application trials ongoing.

Integration & engineering

An essential-function laser, backed by optical systems engineering.

Item	Current configuration	Integration reference
Routine controls	On/off; adjustable up to 25 μ J	Optical output is defined by delivered calibration. No linear response is assumed.
Basic interface	Differential 0-10 V analogue command	Intended interface. Standard calibration target: 10 W at 10 V; intermediate response is not assumed linear.
Cooling	Air cooled	Preserve approved ventilation and installation clearances.
Laser head	17.5 kg	Four mounting feet and front accessory interface. Configuration drawings define mounting datums and limits.
Power supplies	Two supplied 24 V adapters	Separate housekeeping and high-power roles. Adapter capacity is not measured consumption.
Intended use	Class 4 OEM laser source	Qualified integration and application-specific protective measures are required.

From source to optical system

Optical systems engineering

We can help design the optical system around your process, including beam delivery, focusing optics and the interfaces to the wider machine.

Laser-safety integration advice

We advise on laser-safety considerations during integration, including beam paths, access and protective measures. The completed system requires its own assessment.

Discuss your application and integration scope

sales@pulsebrick.com · Product configuration and engineering services

service@pulsebrick.com · Documentation and technical support

diy-optics.com

Integration documentation: use the released, configuration-specific manual and approved drawings for detailed design and commissioning. Routine output control does not provide safe access. Engineering and advisory scope is agreed for the application.