

## Flashlamp Drivers

FLD-4U is a series of flashlamp drivers (syn. laser power supplies) for pulsed flashlamp pumped solid-state lasers such as Nd:YAG, Er:YAG, Alexandrite etc. FLD-4U drivers are all-in-one solutions and include all the necessary subsystems: capacitor bank, capacitor charging power supply, simmer supply and discharge circuit (discharge circuits). They can be equipped with up to two output channels and up to two flashlamps connected in series. In that way each FLD-4U is able to drive up to four flashlamps. The parameters of the FLD-4U can be adjusted via front panel user interface and RS-232 machine interface.



<b>Input</b>	Voltage	230VAC (110/230VAC on request)
<b>Output</b>	Number of driven flashlamps	1 or 2 (outputs aren't independent and can work with identical parameters only)
	Output type	pulsed, variable pulse width partial discharge, quasi-rectangular pulse shape
	Max. output voltage	450/700/900V (other on request)
	Max. output power	1.75/2.0/3.5kW
	Pulse width	0.1-20ms (other on request)
	Repetition rate	1-50Hz (other on request)

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<b>Design</b>	Protections	overvoltage, overheating, flashlamp breakdown, interlock etc
	Cooling	forced air (built-in fans)
	Simmer supply	SBZ-2008 or SBZ-3008
	Triggering	serial or parallel
	Capacitor charger	PCP-17, PCA-20 or two PCP-17 connected in parallel
	Embedded capacitor bank	28000µF / 450V, or 10000µF / 700V, or 7000µF / 900V (others on request)
	Embedded capacitor bank	extension slot
	Interfaces	<ul style="list-style-type: none"> <li>- 7" display, touch panel</li> <li>- RS-232 (full control)</li> <li>- 1x synchro input</li> <li>- 2x synchro outputs</li> <li>- 1x power input</li> <li>- 1x or 2x flashlamp outputs</li> <li>- 1x capacitor bank extension slot</li> <li>- 1x footswitch/fingerswitch connector</li> <li>- 1x interlock-door connector</li> </ul>
<b>Environment</b>	Operation temperature	0°C to +40°C
	Storage temperature	-20°C to +60°C
	Humidity	90%, non-condensing
<b>Environment</b>	Size (W x D x H)	500x380x172mm
	Weight	10-12kg (in dependence on configuration)