

Series 741

Power supplies of series 741 provide operation of technological solid state laser. Power supplies generate rectangular shape discharge pulses with adjustable duration and amplitude.

- Maximum output power – up to 12 kw
- Adjustment range of pulse duration – 0.2 ÷ 5 ms
- Maximum amplitude of output current – 1200 A



Series 750 CW

Power supply is of this series are intended for operation of continuous-wave arc lamps.

- Adjustment range of lamp current – from 10 to 40 A
- Instability of lamp current – less than 0.2%

High Voltage Power Supplies

Power Supplies for laser and laser systems



Development & Manufacturing
Full-scale production

Series 700 C / 700 CW

Series **700** is used for capacitor charging in laser systems and similar powerful pulse high-voltage devices. Power supplies of this series are used to maintain constant voltage on capacitors in power supply systems of various devices.

Series **700 CW** provides a continuous DC operation with a low ripple of current. This series is used for operation of laser, grids, transmitters, magnetrons.



Model	700	701	702	703	704	706	708	7012	7024
Charge rate, J / sec	500	1000	2000	3000	4000	6000	8000	12000	24000

- Output voltage is from 0.1 to 50 kV
- Instability of capacitors charging is up to 0.1%
- Single-phase power supplies contain power factor corrector
- Outside water cooling for 7012 / 7024 models
- Control: manual, remote control (RS-232 / 422 / 485)

Series 700 TC

Power supplies of this series are designed for pulse pumped solid-state lasers with flash lamp.

Power supplies of this series include (according to an order):

- triggering and simmer modules for flash lamps ignition;
- storage capacitors;
- pulse forming choke.



Model	700 TC	701 TC	702 TC	703 TC	704 TC	706 TC	708 TC
Output power, W	500	1000	2000	3000	4000	6000	8000
Capacity, μ F	50, 100, 150, 200 or by order						

- Output voltage from 1 to 3 kV
- Instability of capacitor charging is up to 0.1%
- Control: manual, remote control (RS-232 / 422 / 485)

Series 730

Power supplies of this series allow to form laser pulses with control shape and duration that provides a fast optimal adjustment of radiation parameters of the technological laser according to requirements of specified technological process.

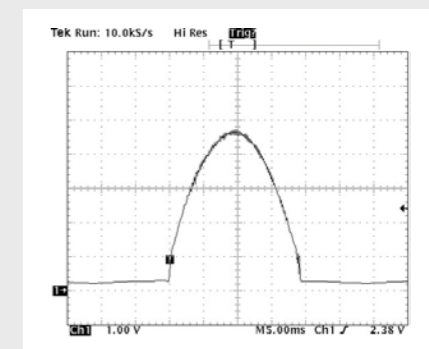
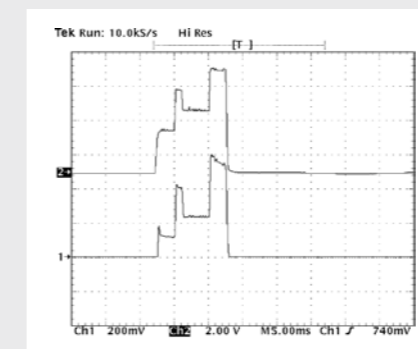
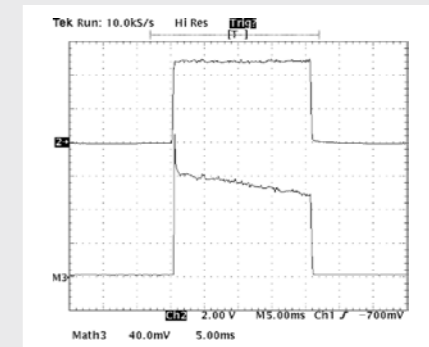
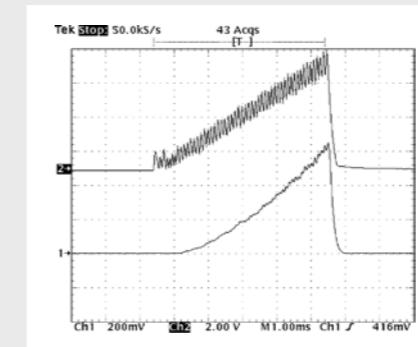
Power supplies of this series include:

- charge unit;
- one or several (up to three) flash lamps current controllers.



Model	730	731	732
Quantity of flash lamps	1	2	1
Maximum output power of one flash-lamp current controllers, kW	up to 7	up to 7	up to 4
Maximum pulse energy, kJ	1.5	1.5	0.8
Maximum pulse duration, ms	up to 50		
Maximum output current, A	up to 600		
Output current range (adjustable), A	50 ÷ 600		
Simmer current, A	0.9 ± 0.1		

- Control: manual, remote control (RS-232 / 422 / 485)



Examples of laser pulse shape control.
Discharge current pulse (*upper trace*) and laser pulse (*lower trace*).