

High Voltage Solutions for Flashlamps

If you are looking for pulsed power sources for flashlamps, optical systems or seeking capacitors tailored to optical applications, AMS Technologies can provide varied solutions for your needs amongst our qualitative and experienced partners.

OEM Tech is an expert in the field of power supplies for optical systems. The company develops and manufactures power supplies for lasers, laser diodes, flashlamps and capacitor chargers. With an experienced and specialised design team with extensive know-how in this field of electronics, OEM Tech has a unique understanding of customer requirements and applications.



Flashlamp Drivers

OEM Tech's NB series is a range of flashlamp drivers delivering a square pulse in an OEM package as a complete solution for solid state laser applications. Special features of these units are the built-in simmer module and triggering device for serial or external triggering. These units are designed to be used in voltage doubling applications.

	NBD 1012	NBU 0405	NBU 1012
Input Voltage	24V	25V / 7V	25V / 7V
Output Voltage	Up to 1000V	400V	1000V
Output Current	Up to 1200A	500A	1200A
Output Pulse Width	Up to 100ms	Up to 500µs	100ms
Simmer Voltage	Up to 150V	-	150V
Simmer Current	Up to 800mA	-	800mA
Open Circuit Volts	Up to 1350V	-	1350V
Trigger Voltage	20kV negative	20kV negative	20kV
Trigger Pulse Width	1µs	1µs	1µs
Restrike Rate	30Hz	2-3Hz	30Hz

Capacitor Chargers

A range of compact, shoebox style capacitor charging power supplies is available for optical applications with protection from high voltage arcs, open circuit, short circuit, over temperature and over voltage.



	PCP -17	PCA-20	PCA-07	PBZ-0204
Input Voltage	230Vac, 1PH	230Vac, 1PH	90-254Vac, 1PH	25V / 7V
Output Power	1750W	2000W	700W @ 115Vac 1000W @230Vac	200W avg 300W peak
Output Voltage	Up to 1500V	Up to 1500V	Up to 1500V	Up to 1500V
Stability	0.5 %	0.5 %	1 %	0.5 %



General Atomics Energy Systems (formerly Maxwell Laboratories) is a world leader in the design, development and manufacture of high voltage, high density capacitors for pulse discharge applications.

Pulse Discharge Capacitors

With over 50 years experience in the field of pulsed capacitors for industrial, research and laser applications, GA-ESI has developed a new range of capacitors tailored to optical applications using self-healing technology. Below you can find a selection of capabilities for flashlamp applications with life rated at $> 1 \times 10^8$.

	DM	DMF
Capacitance	50-750 μ F	50-500 μ F
Voltage	1.0-3kV	1.5kV
RMS Current	15-60A	45-240A
Peak Current	0.8-12kA	3-45kA



C3 Semiconductors – Power Semiconductors and Power Modules

C3 Semiconductors is a manufacturer of semiconductors that have been optimised to be integrated in power switching applications, such as pulsed lasers and flashlamps. The flexible design and production methods allow for custom specific developments for comparatively small quantities. The product spectrum covers all the various industry standard packages and circuits.

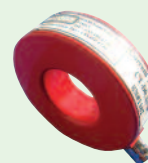
- Discrete devices, triacs, SCRs, thyristors and rectifiers
- Power modules, SCR, thyristor, diode combinations
- Solid state relays
- IGBT modules up to 300A and 1700V
- High temperature triacs



Bergoz Instrumentation – Current Transformers

Bergoz Instrumentation develops and produces current transformers for non-contact measurements of currents. The measurements of the strength of the current in DC, pulse currents, RMS and RF currents or even the position of a current carrying cable in a system can be carried out in different environmental conditions such as air, very high vacuum or in oil.

- From 0 to 20kA
- 0,5Hz to 2GHz
- Accuracy 0,5%
- 5 different product sizes



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