

## LC501, XLS102, XLS202, XLS302, XLS402, SS402, and XLS602 Capacitor Chargers



*Excelitas is a leader in Capacitor Charging, and offers solutions tailored to meet your needs, resulting in higher reliability and faster time to market.*

Capacitor chargers from Excelitas Technologies are tailored to meet your exact needs by configuring modular platforms based on proven designs. Single phase AC input designs are capable of up to 6 kW of output power and our three-phase designs provide up to 35 kW of output power. The modular design approach results in lower cost, higher reliability, and faster time-to-market. Typical applications for capacitor charging power supplies include flashlamp pumped systems (Nd: YAG, pulsed lasers, dye lasers, Intense Pulsed Light Systems (IPL) and laser aesthetic systems, Medical Holmium YAG Laser), excimer lasers, pulsed UV curing and sterilization, radar and RF systems.

### Key Features

- Compact size, high efficiency
- Active PFC, PF > 0.99
- Open Circuit, Short Circuit, Arc, Over-temperature, Over voltage protection
- Low EMI, high EMI-RFI immunity
- Modular
- Medical standard
- TÜV, UL approved
- RoHS

### Applications

- Security
- Irradiation
- Inspection
- Analytical Instrumentation
- Analytical Equipment
- Diagnostic Equipment
- Therapeutic Equipment
- Research Equipment
- Marx Generators
- Electrostatic Applications
- Materials Processing
- Process Control
- Welding
- Flashlamp Pumped Systems
- Excimer Lasers
- Pulsed UV Curing and Sterilization
- Radar and RF Systems
- Semiconductor Manufacturing Equipment

## LC501, XLS102, XLS202, XLS302, XLS402, SS402, and XLS602

### Capacitor Chargers

#### Lower Output Voltage (~ 4 kV) and Power (~ 6 kW)

Model	LC 501	XLS102	XLS202	XLS302	SS402	XLS402	XLS602
Input voltage (Vac)	90-264	90-264	180-264	180-264	180-264	180-264	180-264
Output power	500 W	1kW	2 kW	3 kW	4 kW	5 kW	6 kW
Output voltage	200 – 4 kV	~ 1 kV	200-4kV	200-4kV	900V	200-4kV	200-4kV
Mains to SELV Insulation	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Leakage current	<100 µA	<100 µA	<100 µA	<100 µA	<300 µA	<100 µA	<300 µA
Size: L x W x H (inches)	9.15x6x3.7	12.7x5.7x4.1	12.5x5.5x5.8	14x5.8x5.8	9.3x8.8x4.6	14x6.8x8	14.2x8x6
24V auxiliary Up to 200W	√	√	√	√	√	√	
Simmer up to 200 W	√	√	√	√		√	
Trigger output up to 20 kV	√		√	√		√	
Interface Options	Analog, Digital	Analog	Analog, Digital	Anlg., Dig. & Optical	Analog	Anlg., Dig. & Optical	Analog

#### Higher Output Voltage: 4 kV to 40 kV

Model	LS1500	LS2500
Input voltage	90- 264 Vac	180-264 Vac
Output power	1.5 kW	2.5 kW
Output voltage	4-40 kV	4x40 kV
Mains to SELV Insulation	2.5 kV	2.5 kV
Size: L x W x H (inches)	12x6.2x6	17x6.5x7.2

#### Higher Output Power, 6 kW to 35 kW

Model	1101762	1101769
Input voltage	400-480 +/- 10%	400 +15% -10%
Output power	35 kW	20kW
Output voltage	1200 V	2300 V
Mains to SELV Insulation	2.25 kV	2 kV
Size: L x W x H (inches)	19x13.6x27.7	17.5x10.5x22.8

#### About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection, energetic, frequency standards and high-reliability power needs of OEM customers.

From aerospace and defense applications to industrial, safety and security, medical lighting, analytical instrumentation, and clinical diagnostics, Excelitas Technologies is committed to enabling our customers' success in their specialty end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

In September 2012, Kaiser Systems became part of Excelitas Technologies. Through the acquisition of Kaiser Systems, Excelitas now brings over 30 years of experience in designing and manufacturing high voltage capacitor chargers.

##### Excelitas Technologies

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