

## LC501, XLS102, XLS202, XLS302, XLS402, and XLS602 Capacitor Charging Power Supplies



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### 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

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

Excelitas capacitor chargers 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.

**EXCELITAS**<sup>®</sup>  
TECHNOLOGIES

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

Model	LC 501	XLS102	XLS202	XLS302	XLS402	XLS602
Input voltage (Vac)	90-264	90-264	180-264	180-264	180-264	180-264
Output power	500 W	1kW	2 kW	3 kW	5 kW	6 kW
Output voltage	200 – 4 kV	~ 1 kV	200-4kV	200-4kV	200-4kV	200-4kV
Mains to SELV Insulation	4 kV	4 kV	4 kV	4 kV	4 kV	4 kV
Leakage current	<100 µA	<100 µA	<100 µA	<100 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	14x6.8x8	14.2x8x6
24V auxiliary Up to 200W	√	√	√	√	√	
Simmer up to 200 W	√	√	√	√	√	
Trigger output up to 20 kV	√		√	√	√	
Interfacing options	Analog, Digital	Analog	Analog, Digital	Anlg., Dig. & Optical	Anlg., Dig. & Optical	Analog

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

Model	DCS 353	HPLS 203
Input voltage	400-480 +/- 10%	400 +15% -10%
Output power	35 kW	20kW
Output voltage	1200 V	2300 V
Mains to SELV Insulation	2.2 kV	2 kV
Size: L x W x H (inches)	17.5x10.5x22.8	19x13.6x27.7

### 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.

#### Excelitas Technologies

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# Capacitor Charging Requirements Worksheet

Name \_\_\_\_\_ Position \_\_\_\_\_  
Company \_\_\_\_\_ Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Code \_\_\_\_\_ Country \_\_\_\_\_  
Telephone \_\_\_\_\_ Fax: \_\_\_\_\_  
E-Mail: \_\_\_\_\_ Date \_\_\_\_\_

## Full Discharge Application

Operating Voltage: \_\_\_\_\_ V Load capacitance: \_\_\_\_\_ pF  nF  μF  mF  F  
Charge Time: \_\_\_\_\_ sec Rep rate: \_\_\_\_\_ Hz

## Partial Discharge Application

Operating Voltage: \_\_\_\_\_ V Load capacitance: \_\_\_\_\_  pF  nF  μF  mF  F  
Voltage drop: \_\_\_\_\_ V Recovery time: \_\_\_\_\_ msec. Rep rate: \_\_\_\_\_ Hz

**Optional:** Peak charge rate: \_\_\_\_\_ J/s Average power: \_\_\_\_\_ Watts  
Pulse-to-pulse repeatability: \_\_\_\_\_ %

**Auxiliary output:** \_\_\_\_\_ **Simmer:** Open Circuit V \_\_\_\_\_ Current \_\_\_\_\_

**Input Power:** Specify range: \_\_\_\_\_ Vac to \_\_\_\_\_ Vac  1  3 Phase  
 Active Power factor correction required (>0.95)

**Program Voltage:** \_\_\_\_\_ **Enable signal:** high \_\_\_\_\_ low \_\_\_\_\_

**Agency Approvals:**  None (if required please specify standard below)

Safety: \_\_\_\_\_ EMC: \_\_\_\_\_

## Environmental:

Operating Temperature: Ambient: \_\_\_\_\_ °C Cooling:  Forced air  Water  
Packaging:  Rack mount (max ht: \_\_\_\_\_, max depth: \_\_\_\_\_)  Front panel controls  
 Module: Size requirements: H \_\_\_\_\_ x W \_\_\_\_\_ x L \_\_\_\_\_

## End Product Application:

Industrial  Medical   
Is this a new product ?  Yes  No If yes, planned introduction date: \_\_\_\_\_  
Usage:  OEM (\_\_\_\_\_ units per year)  one time buy (\_\_\_\_\_ units) Price target: \_\_\_\_\_  
Is this a replacement for an existing supply:  Yes  No  
If yes, current supplier: \_\_\_\_\_  
Supplier model number \_\_\_\_\_  
Reason for change \_\_\_\_\_

Please mail or fax to HVP

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