

## ***Pulsed Power Supply for Xenon lamps***

**Controlled pulses power supply for xenon lamps.  
Include simmer and lamp starting voltages.  
Voltages output for control panel or PC.  
Suitable for many applications.**



### **General description**

This power supply includes all functions to drive a xenon lamp.

A power factor controlled circuit drives a high performance capacitor charger. Up to 3200j can be stored in the included capacitors bank.

A high performance current regulator delivers controlled pulses to the xenon lamp.

The power supply includes a high efficiency simmer and a serial mode trigger allowing water cooling of the xenon lamp.

This results in a perfect pulse shape and perfect repetitive pulses.

The power supply is  $\mu$ P controlled and can be easily controlled with a PC board via the RS232 interface. Optionally comes with RS485 Modbus or I<sup>2</sup>C interface.

The power output is fully insulated from mains voltage.

### **Applications**

- IPL (hair removal, dermatology)
- Nd:YAG Laser
- Decontamination
- Sterilization
- Curing resins
- Solar simulators

## Specifications

### Input

- *110-230V AC 50-60 Hz wide range*
- *Power factor correction (Power factor > 0.98)*

### EC compliant

### Fully $\mu$ P controlled

### Thermal protection of internal circuits

### Insulated 1.2KW capacitor charging power supply

Stored energy: 2100 J. (IPL21) or 3200 J. (IPL32) Other values on request

Lamp voltage: up to 450V (500V on storage capacitors)

### Internal simmer

- *$\mu$ P controlled*
- *20KV serial trigger allowing lamp water cooling*
- *50mA to 300mA programmable simmer current*
- *850V boost voltage. Other values on request*

### Programmable output current regulator

- *High frequency MOSFET regulation*
- *Pulses current from 45 A to 300 A*
- *Pulses width from 0.25 to 100 mS*
- *Pauses width from 0.25 to 100 mS*
- *Number of pulses by frame from 1 to 10*

### Insulated interlock

Fused 1Amp mains output for peripherals supply

Insulated 5V-2A and 12V-2A regulated outputs

### RS232 Interface

### Mechanical

- *Size:*
  - *W 300 mm*
  - *L 300 mm*
  - *H 275 mm*
- *Weight:*
  - *IPL21: 14 Kg*
  - *IPL32: 16 Kg*

**Product can be modified to fit your requirements.  
Do not hesitate to contact us.**

**E.D.N. (Electronic Development Normandy) Sarl**

Parc Industriel de Cardonville / BP 3 - 76710 MONTVILLE / FRANCE

Phone : +33 (0)2 72 34 12 30 Fax : +33 (0)2 35 37 05 89

Email : [contact@ednormandy.com](mailto:contact@ednormandy.com)