



OEM Tech
LASER ELECTRONICS

CAPACITOR CHARGING POWER SUPPLIES



MEDICAL GRADE CAPACITOR CHARGER - PCA-10

- output power 1kW
- dual input 110/230VAC
- medical standards compliance: safety, PFC 0.98, low EMI and leakage current
- output voltage up to 2kV
- complete and partial discharge modifications



MEDICAL GRADE CAPACITOR CHARGER - PCA-20

- output power 2kW
- dual input 110/230VAC
- medical standards compliance: safety, PFC 0.98, low EMI and leakage current
- output voltage up to 2kV
- complete and partial discharge modifications



CAPACITOR CHARGER - PCP-17

- output power 1.75kW
- output voltage up to 2kV
- complete and partial discharge modifications



CAPACITOR CHARGER - PCP-35

- output power 3.5kW
- output voltage up to 2kV
- complete and partial discharge modifications

MODULES FOR FLASHLAMP PUMPING



FLASHLAMP DRIVER - FLD-4U

- pulsed output
- complete or partial discharge
- output power up to 3.5kW
- output voltage up to 2kV
- rep. rate up to 100Hz
- touch panel, 6" LCD display



DISCHARGE CIRCUIT - NBU-1012

- IGBT-based discharge circuit
- free discharge, quasi-rectangular pulse shape
- variable pulse width (50us-100ms)
- output current up to 1000A
- output voltage up to 1000V
- embedded simmer supply and flashlamp triggering circuit



SIMMER SUPPLY MODULE - SBZ-2008

- +24V DC input
- one and two flashlamp modifications
- output current up to 800mA
- output voltage up to 300V
- output power up to 100W



SIMMER SUPPLY MODULE - SCA-2008

- 230V AC input
- one and two flashlamp modifications
- output current up to 800mA
- output voltage up to 300V
- output power up to 100W

POCKELS CELL DRIVERS / GENERAL PURPOSE



POCKELS CELL DRIVER - QBD

- pulses up (normally off) and pulses down (normally on) modifications
- output voltage up to 6kV
- rep. rate up to 200kHz (at low output voltage)
- leading edge <20ns
- ideal for q-switching



POCKELS CELL DRIVER - QBU

- repeats incoming TTL signal
- output voltage up to 6kV
- rep. rate up to 200kHz (at low output voltage)
- risetime/falltime <20ns
- pulse slicing, pulse picking and other advanced application



POCKELS CELL DRIVER - QBD-mini

- pulses up (normally off) and pulses down (normally on) modifications
- output voltage up to 4.5kV
- leading edge <20ns
- as compact as 90*50*20mm
- ideal for q-switching



POCKELS CELL DRIVER - QBU-mini

- repeats incoming TTL signal
- output voltage up to 3.2kV
- risetime/falltime <20ns
- as compact as 115*50*20mm
- pulse slicing, pulse picking and other advanced application



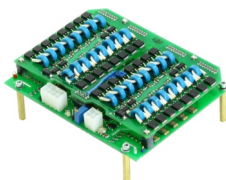
POCKELS CELL DRIVER - QBD-BT

- laboratory bench-top module
- pulses up (normally off) and pulses down (normally on) modifications
- output voltage up to 6kV
- rep. rate up to 200kHz (at low output voltage)
- leading edge <20ns
- ideal for q-switching



POCKELS CELL DRIVER - QBU-BT

- laboratory bench-top module
- produces HV pulses up and down, repeats incoming TTL signal
- output voltage up to 6kV
- rep. rate up to 200kHz (at low output voltage)
- risetime/falltime <20ns
- pulse slicing, pulse picking and other advanced application



POCKELS CELL DRIVER - QBU-10kV

- repeats incoming TTL signal
- output voltage up to 10kV
- rep. rate up to 500kHz (at low output voltage)
- risetime/falltime <20ns
- pulse slicing, pulse picking and other advanced application



POCKELS CELL DRIVER - QBU-BT-10kV

- laboratory bench-top module
- produces HV pulses up and down, repeats incoming TTL signal
- output voltage up to 10kV
- rep. rate up to 500kHz (at low output voltage)
- risetime/falltime <20ns
- pulse slicing, pulse picking and other advanced application

POCKELS CELL DRIVERS / PULSE-PICKING APPLICATIONS



HIGH VOLTAGE SWITCH - HVSW-03

- specialized solution for pulse picking applications
- output voltage up to 2kV
- repetition rate up to 1MHz
- pulse width - 14ns, 100-2000ns
- risetime/falltime <7ns
- 24VDC input (embedded HV power supply)
- conductive cooling through the bottom



SYNCHRONIZATION BOARD - PP-CONTROL

- precisely synchronizes up to two Pockels cell drivers to the seed oscillator optical pulse train
- up to 2000ns adjustable delay
- +/-250ps jitter

MODULES FOR DIODE PUMPING



CW DIODE DRIVERS - LDD-150 .. LDD-400

- cw output
- output power 150, 250, 400W
- output current up to 100A
- dual mains 110/230VAC
- medical standards compliance: safety, PFC 0.98, low EMI and leakage current



CW DIODE DRIVERS - LDD-1000 .. LDD-2000

- for laser diode bars, arrays and stacks
- cw output
- output power 1000, 1500, 2000W
- output current up to 100A
- medical version on request



PULSED DIODE DRIVER - PDD-1000

- pulsed output
- output current up to 200A
- compliance voltage up to 200V
- average output power 1000W
- peak output power 10kW



THERMOCONTROLLER - TEC

- controls Peltier modules
- manages power up to 150W
- different V/A ratio available
- accuracy 0.1°C



THERMOCONTROLLER - TEC-BT

- laboratory bench-top module
- controls Peltier modules
- manages power up to 150W
- different V/A ratio available
- accuracy 0.1°C

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