



PRODUCT CATALOGUE

CAPACITOR CHARGING POWER SUPPLIES

MEDICAL GRADE CAPACITOR CHARGERS

certified
IEC 60601-1:2005/AMD1:2012
IEC 60601-1-2:2014



PCA-10

output power
output voltage (higher on request)
input



PCA-20 / PCA-25

2 kW / 2.5 kW
up to 2 kV
110-240 V / 200-240 V AC



PCA-40

4 kW
up to 2 kV
200-240 V AC

GENERAL PURPOSE CAPACITOR CHARGERS

- output power from 700 W to 3500 W
- output voltage up to 4 kV
- input 230 V AC
- compact design
- very attractive pricing

PCP-series



- output power from 400 to 700 W or from 300 to 500 J/s
- output voltage up to 4 kV
- input 24 / 48 V DC
- compact design

PBZ-series



MODULES FOR FLASHLAMP PUMPING

DISCHARGE CIRCUITS

- IGBT-based
- free discharge, quasi-rectangular pulse shape
- variable pulse width (50 us-100 ms)
- output power up to 2 kW
- output voltage up to 1000 V
- output current up to 1000 A

NBU-1012



NBD-0505-PWM

- IGBT-based
- PWM discharge, true-rectangular pulse shape
- variable pulse width (1 - 100 ms)
- output power up to 2 kW
- output voltage up to 500 V
- output current up to 500 A



SIMMER SUPPLY MODULES

SBZ-2008/3008



SCA-2008/3008

- 230 V AC input
- one or two flashlamp modifications
- output current up to 800 mA



CUSTOM FLASHLAMP DRIVERS

- different applications – from IPL to Nd:YAG, Alexandrite, Er:YAG, CTH:YAG and other lasers
- different power – up to 4 kW
- different voltage – up to 1000 V
- a variety of options



APPLICATION SPECIFIC READY-TO-USE SETS

all-in-one sets for definite flash lamp driving tasks, for:

- Holmium lasers for surgery (Ho:YAG, CTH:YAG)
- Alexandrite, long pulse Nd:YAG, long pulse KTP laser systems for aesthetics
- nanosecond (q-switched) and Picosecond Nd:YAG laser systems for tattoo removal
- Er:YAG laser system for dermatology
- different IPL machines



POCKELS CELL DRIVERS

QBD-series



fast leading edge
ideal for q-switching
pulses up or pulses down
(factory fixed)



size, mm
output voltage
max. repetition rate
leading edge
input

50x30x8
up to 3.8 kV
> 4 kHz @ 3.8 kV
1-3 ns
5 V DC
pulses up only

90x50x20
up to 4.0 kV
> 10 kHz @ 4 kV
< 20 ns
24 V DC

110x80x25
up to 6.0 kV
> 10 kHz @ 6 kV
< 20 ns
24 V DC

225x200x60
up to 6 kV
> 10 kHz @ 6 kV
< 20 ns
100-240 V AC

QBU-series



both edges are fast, operating frequency and pulse width are set by an external pulse generator
suitable for pulse slicing, pulse picking and other advanced applications



size, mm
output voltage
max. rep. rate
rise /fall time
input

80x50x20
up to 5.8 kV
> 2 kHz @ 3.8 kV
1-3 ns
12 V DC
unipolar

140x50x20
up to 3.5 kV
> 10 kHz @ 3.5 kV
< 15 ns
24 V DC

130x80x25
up to 6 kV
> 10 kHz @ 6 kV
< 15-20 ns
24 V DC

225x200x60
up to 6 kV
> 10 kHz @ 6 kV
< 20 ns
100-240 V AC

132x105x50
up to 10 kV
> 5 kHz @ 10 kV
< 20 / 25 ns
24 V DC

225x200x60
up to 10 kV
> 5 kHz @ 10 kV
< 20 / 25 ns
100-240 V AC

HIGH REPETITION RATE POCKELS CELL DRIVERS

specialized drivers for pico- and femtosecond lasers
suitable for pulse picking and other advanced applications

HVSW-03

- output voltage up to 2 kV
- repetition rate up to 1MHz @ 1.6 kV
- pulse width 14 ns (short pulse mode),
or 100-2000 ns (long pulse mode)
- < 7 ns rise-time
- 24 V DC input (integrated HV power
supply)



- output voltage up to 4 kV
- repetition rate up to 4 MHz @ 1.4 kV
- pulse width 15-20 ns (short pulse mode)
or 100 - 2000 ns (long pulse mode)
- < 7 ns rise-time @ 1 kV
- water cooling



ARBITRARY WAVEFORM POCKELS CELL DRIVER



specialized driver, based on voltage amplifier
for light modulation, beam deflection, piezo and
MEMS actuators, ultrasonic devices

QBX-08

- output voltage up to 800 V (1.6 kV
on request)
- repetition rate ~50 kHz @ 0.8 kV, 60pF
- < 1 us rise / fall time
- 24 V DC input (integrated HV power
supply)



CUSTOM POCKELS CELL DRIVERS

specially designed drivers in response to customer requests
all parameters are discussable

- output voltage
- repetition rate
- pulse width
- size and weight



DIODE DRIVERS

PULSED DIODE DRIVERS FOR HAIR REMOVAL WITH 100-240 V AC INPUT

high-power pulsed diode drivers for medical and medical aesthetic treatments, e.g. for hair removal
medical-grade, full compliance to IEC 60601-1 ed.3 and IEC 60601-1-2

PDD-300

- pulses from 0.5 ms to 100 ms and longer
- output current up to 200 A
- compliance voltage up to 50 V
- output power up to 300 W (avg), up to 5kW (peak)



PDD-1600

- pulses from 0.5 ms to 100 ms and longer
- output current up to 200 A
- compliance voltage up to 100 V
- very powerful - output power up to 1600 W (avg) and to 10 kW (peak) (2 kW and 15 kW peak on request)



PULSED DIODE DRIVER FOR HAIR REMOVAL WITH DC INPUT

specialized driver, with 300 V DC inputs for powering IPL and diode applicators in one system

PDD-1000

- pulses from 0.5 ms to 100 ms and longer
- output current up to 200 A
- very powerful - output power up to 1000 W (avg) and to 10 kW (peak)



CW DIODE DRIVERS

power diode drivers for laser diode stacks and bars pulsed or continuous form output designed to comply with IEC 60601-1 and IEC 60601-1-2

LDD-250 / LDD-1500

- CW output
- output current up to 100 A
- output power up to 2000 W
- input 100-240 or 200-240 V AC
- medical standards compliance: safety, PFC 0.98, low EMI and leakage current



RF GENERATOR MODULES

NEW PRODUCT LINE - RF POWER SOLUTIONS



medium-power RF generator modules
high-voltage of the radio-frequency range
for vacuum plasma usage and for medical aesthetic devices

need an external source of HV DC (for ex. from PCA-series)

- output power 500 - 1500 W
- frequencies - 6.78, 13.56, 27.12, 40.68, 81,36 MHz, factory fixed (0.5 - 4 MHz on request)
- input - DC from PCA-10 or PCA-20

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