



PRODUCT CATALOGUE

CAPACITOR CHARGING POWER SUPPLIES

MEDICAL GRADE CAPACITOR CHARGERS

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



output power
output voltage (higher on request)
input



PCA-10

1 kW
up to 2 kV
110-240 V AC



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 1300 V
- output current up to 1000 A

NBU-1012



- SRC- (thyristor) based
- bell-shaped pulse
- pulse width depends on system L and C, fixed
- output power up to 2 kW
- output voltage up to 1500 V
- output current up to 1000 A

NBU-1508



SIMMER SUPPLY MODULES

- +24 V DC input
- one or two flashlamp modifications
- output current up to 800 mA

SBZ-2008/3008



- 200-240 V AC input
- one or two flashlamp modifications
- output current up to 800 mA

SCA-2008/3008



CUSTOM FLASHLAMP DRIVERS

- different applications – from IPL to Nd:YAG, Alexandrite, Er:YAG, CTH:YAG and other lasers
- different power – up to 8 kW
- different voltage – up to 900 V
- a variety of options



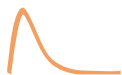
APPLICATION SPECIFIC READY-TO-USE SETS

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

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

POCKELS CELL DRIVERS

QBD-series



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



QBD-nano



QBD-mini



QBD



QBD-BT

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

40x30x10
up to 5 kV
> 1 kHz @ 5 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

225x180x70
up to 6 kV
> 10 kHz @ 6 kV
< 15 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



QBU-nano



QBU-mini-SP



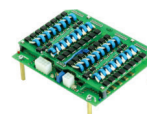
QBU-mini



QBU



QBU-BT



QBU-10kV



QBU-BT-10kV

size, mm
out. voltage
max. rep. rate
rise / fall time
input
pulse width
unipolar output

80x50x20
up to 5.8 kV
>2 kHz @ 3.8 kV
1-3 ns
12 V DC
up to 800 ns

102x50x20
up to 4 kV
> 8 kHz @ 4 kV
< 10 ns
24 V DC
100 - 2000 ns

140x50x20
up to 4 kV
> 8 kHz @ 4 kV
< 15 ns
24 V DC
200 ns - ∞

130x80x32
up to 6 kV
> 10 kHz @ 6 kV
< 15 ns
24 V DC
200 ns - ∞

225x180x70
up to 6 kV
> 10 kHz @ 6 kV
< 20 ns
100-240 V AC
200 ns - ∞

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

300x220x80
up to 10 kV
>5 kHz @ 10 kV
< 20 / 25 ns
100-240 V AC
200 ns - ∞

QBY-series



GaN drivers, both edges are 3-4 ns fast, output voltage level, operating frequency and pulse width are set by user
suitable for pulse slicing, pulse picking and other advanced applications
input 24 V DC, output voltage max 4 kV, 3-4 ns rise and fall, pulse width 10-1000 ns

QBY-4001

80x50x20 mm
1 kHz @ 4 kV



QBY-4010-A

80x71x28 mm
10 kHz @ 4 kV



QBY-BT

182x110x70 mm
5 kHz @ 4 kV



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 1 MHz @ 1.5 kV
- pulse width 14 ns (short pulse mode), or 100-2000 ns (long pulse mode)
- < 8 ns rise /fall time
- 24 V DC input (integrated HV power supply)



HVSW-04

- 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 /fall 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 / QBX-16

- output voltage up to 800 V / 1.6 kV
- repetition rate ~50 kHz @ full voltage
- < 7 us rise /fall time
- 24 V DC input (integrated HV power supply)



ENERGY-EFFECTIVE POCKELS CELL DRIVER

specialized driver with extremely low power consumption, for Q-switching, pulse slicing, battery-powered equipment

QBY-4050

- output voltage up to 5 kV
- repetition rate ~50 kHz @ 4 kV
- < 40 ns rise / fall (< 20 ns on request)
- pulses 40-1000 ns long
- 24 V DC input
- compact - 112x108x25 mm



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 1 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 1 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 1 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 AND PULSED DIODE DRIVERS

powerful 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



PULSED DIODE DRIVERS FOR ND:YAG PUMPING

SDC-BT



- 100 W
- 50 - 300 us pulses
- up to 400 A, 450 V
- 1x high-power TEC
- + 1x low-power TEC inside
- able to control an extra external Pockels cell driver

SDC-4U



- 1500 W
- 50 - 300 us pulse
- up to 400 A, 500 V
- able to control an extra external Pockels cell driver
- parallel operation in master-slave mode is possible

RF GENERATOR MODULES

NEW PRODUCT LINE - RF POWER SOLUTIONS



RFGM MODULE

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 300 - 1500 W
- frequencies - 6.78, 13.56, 27.12, 40.68 MHz, factory fixed (0.5 - 4 MHz on request)
- input - DC from PCA-10 or PCA-20

RFGM-1.00-50 BOARD



50 W, 1 MHz
 For medical
 aesthetic equipment

0.5 - 2 MHz on request
 up to 100 W

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