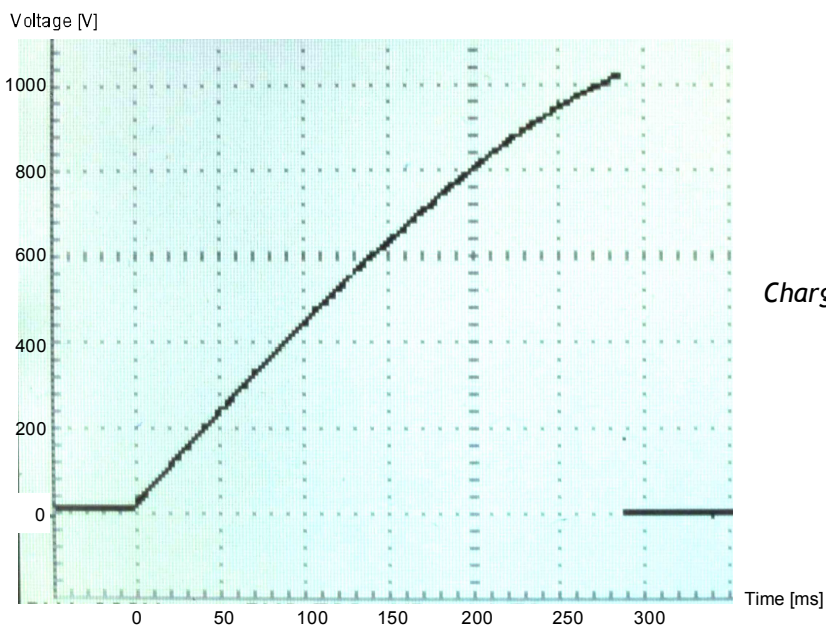


The ALM05 high frequency switching current generator is intended to load the capacitor bank of optically pumped lasers ML05 in a reproducible and adjustable manner.

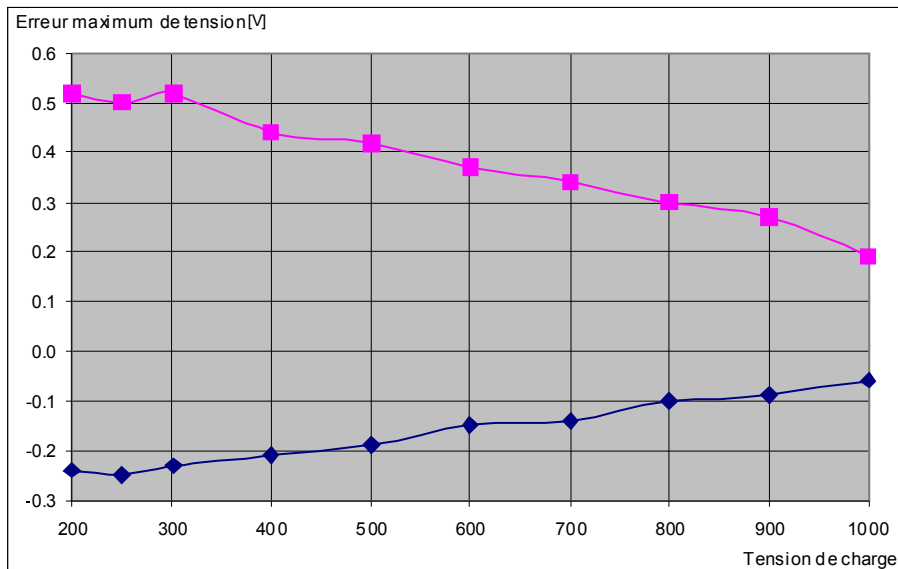
## Spécifications

- loading current at 0V (capacitor bank discharged) : 1.5A
- Maximum charging voltage: 1200V.
- Power: charges a 300uF capacitor bank to 1000V in 0.3s
- Main power supply: three-phases star
- Can be used with in single phase power supply
- Auxiliary power supply (included) 15V 1A
- Cooling: forced ventilation at full continuous power
- Operating temperature: -10°C to 35°C
- input and outputs isolated with opto-couplers
- load control input
- Overheating alarm output
- Discharge of the capacitor bank at shutdown
- Oscillating frequency of the current generator: 70kHz
- Size : 205 x 373mm h = 135mm (with fan)



*Charging of a 300mF capacitor bank*

The device uses a proprietary digitally controlled circuit to convert the voltage of a main power supply to a nearly constant current with low losses. A separate device shall be used to switch off the current generator when the desired voltage is reached on the capacitor bank. With an adequate circuit the voltage is very stable.



*Maximum and minimum voltage error measured on ML05D laser drilling machine No.13*

### Mains power

inputs 5 poles CN1: neutral, 3 mains phases 230V, earth.

### High voltage outputs

CN3 + CN4: + HT, Neutral or 0V HT (bridge between neutral and 0V possible) .

### input - output commands

8 CN2 poles

Outputs :

- overheating alarm
- power supply. 15V

Inputs

- load control
- Capacitor bank discharge interrupt (the high voltage discharge relay is normally closed)

For more information ask: [induplan@vtxnet.ch](mailto:induplan@vtxnet.ch)

