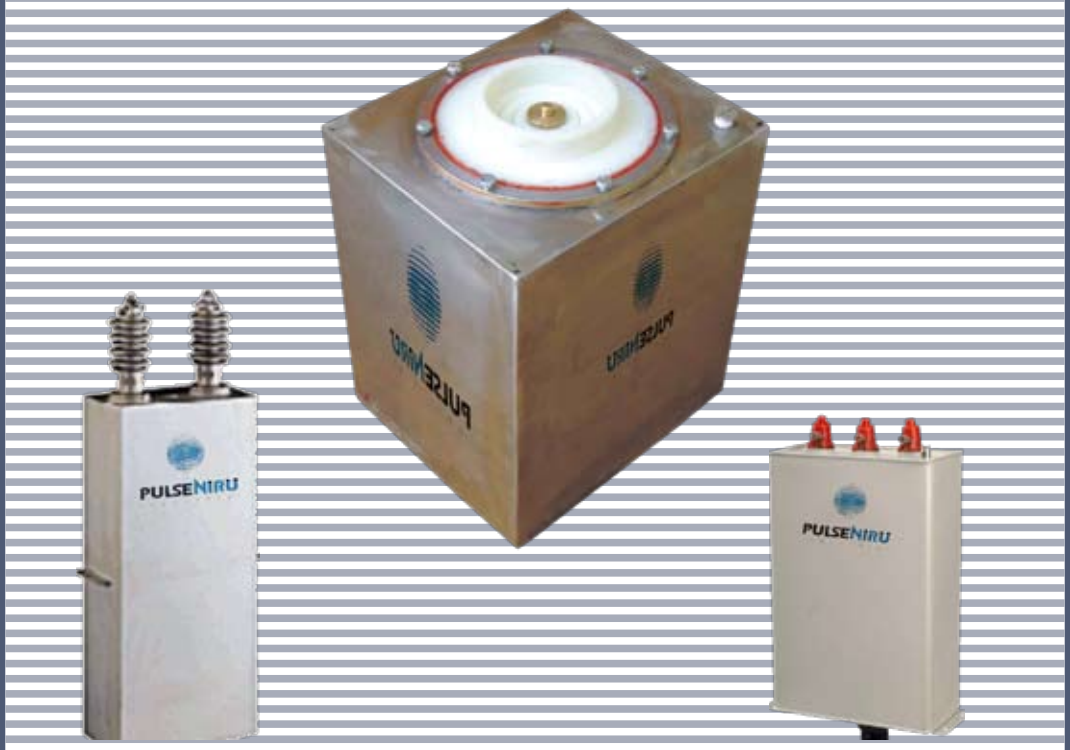
PULSENIRU
INDUSTRIAL



Pulse Niru Company

Capacitor Catalogue

We are a major supplier of film capacitors to the medical, communications and electrical power industries, capacitors bank, high voltage testing equipments and high energy density physics centers (HEDP). Pulse Niru Company initiated its activities since 2003 in manufacturing Pulsed Power equipment such as High Energy Pulse Discharge Capacitors for High Energy Industries and High Energy Density Physics Centers. Pulse Niru is manufacturing the various AC medium voltage (MV) shunt capacitors for Power Factor Correction and Energy storage pulse Discharge Capacitors. The best material such as Dielectric polypropylene film, foil and Non-PCB oil are used for producing the capacitors. At present, Pulse Niru is able to design and manufacture various capacitor types as following;

➤ Pulse discharge energy storage capacitors

- Voltage: 3 – 120 KV
- Capacitance: 0.05 – 500 uF
- Inductance: 30 – 100 nH
- Peak Current: 20 – 300 KA
- Case: metal
- Repetition Rate: 0.1 – 50 Hz
- Tan δ: 0.008
- Winding Method: single & internal series
- Electrode : Al Foil
- Connection Method: soldering
- Dielectric : polypropylene film
- Impregnant: PXE Oil (PCB free)
- Life time : 10^4-10^6 C/D
- Bushing : coaxial

This division has one of the most advanced winding machines in the world, so this capability enables us to manufacture high energy pulse discharge capacitors with **internal series configuration.** This type of winding not only decreases the inductance, but also increases output current capability and mechanical strength.

➤Medium Voltage (MV) Shunt capacitors for power factor correction

Capacitors with 2 bushings. Internal connection: Single phase,
both poles are connected through the bushings with the terminals. Capacitor container has to be grounded.

↘*Technical Data*

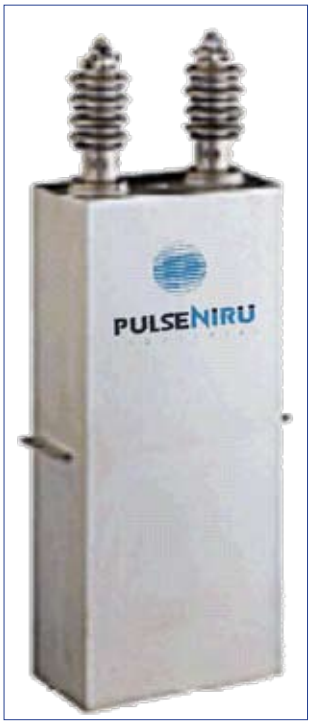
- Rated output: 100 kvar … 500 kvar
- Rated voltage: 1,3 up to 13,85 kV
- Rated frequency: 50 Hz (60 Hz on request)
- Elecrode: all foil
- Dielectric: Polypropylene film
- Impregnant: PXE Oil (PCB free)
- Losses: 0,15 W/kvar at +40°C ambient air temperature and rated operation
- Internal fuses Capacitors with and without internal fuses available
- Discharge resistor Standard design without discharge resistor. On request with built - in discharge resistor available.te <= 10 min.

↘*Standards*

pulse niru MV shunt capacitors with IEC-publication 871.

↘*Quality Assurance*

- All capacitors are subject to the following tests unless otherwise agreed between the customer and the manufacturer:
- Test voltage between the terminals
  - d. c. voltage 4,3 x U_N ,10 s or
  - a. c. voltage 2,15 x U_N ,10 s
- Test voltage between terminals and container
  - a. c. voltage in accordance with IEC 871, 10 sec



➤ Low Voltag (LV) Shunt capacitors for power factor correction

- Rated Voltage: 230 to 3000 v
- Rated Frequency: 50 Hz (60 Hz on request)
- Dielectric: Polypropylen film
- Impregnant: PXE Oil (PCB free)
- Electrode : Al Foil
- Test voltage terminal/terminal : AC 2.15 x U_N 10s
- Test voltage terminal/casing: 3 to 16 KV, 50 Hz 10s
- Temperature limits:

  Air cooling = - 20 .... + 55 C
- Cooling system: Natural air

➤Medium Voltage capacitor bank for A.C power systems

↘ *Technical data:*

- Rated output: 1.2 Mvar…30 Mvar
- Rated voltage: 1 kV up to 36 kV
- Frequency: 50 Hz
- Insulation level: 70/170 kV
- Connection: YY
- Dielectric: polypropylene film
- Impregnant: PXE Oil (PCB free)
- Losses: ≤ 0.15 W/kvar at +40° ambient temperature and rated operation
- Internal fuses: on request
- Discharge resistor: standard design without discharge resistor. On request with built in discharge resistor available. t_e ≤ 10 min.

↘ *Permissible overload:*

- Current: 1.3 X I_N continuously
- Voltage: 1.0 X U_N continuously
  1.0 X U_N 12 h in every 24 h

↘ *Standards*

- MV capacitors bank comply with IEC publication 871.

↘ *Quality Assurance*

- All capacitors are subject to the following tests unless otherwise agreed between the customer and the manufacture:
  - Test voltage between the terminals
    d. c. voltage 4,3 x U_N ,10 s or
    a. c. voltage 2,15 x U_N ,10 sec
  - Test voltage between terminals and container
    a. c. voltage acc. To IEC 871, 10 sec




This is our contact detail

If you are interested to try our products, please feel free to contact us. Our contact detail is as following;

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