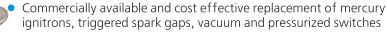


Pulsed technologies ltd. is a leading global innovation company since 1994





- No dangerous, no toxic substances
- No heated cathode
- Anode voltage in the range of 3 to 150 kV
- Maximum Anode Current Rise Rate up to 10<sup>12</sup> A/sec
- Low inductance < 5 nH</p>
- Jitter < 3 ns</p>
- Switches without permanent hydrogen reservoir heating are available on request
- Pulse repetition rates up to 300 Hz
- Hollow anode models for underdamped current form applications
- Trigger and heater units are available from the Manufacturer

The TDI-series of cold-cathode grounded grid thyratrons provides a unique high current, high charge transfer capability with superior time stability and is currently employed for emerging pulsed power applications with peak power up to hundreds of megawatt due to easy assembling in parallel layout.

- Plasma fusion
- Plasma focus, plasma lens
- Shock Wave generation (including medical lithotripters, hydroelectropulse technology)
- High-power pulsed electromagnetic fields generation for particle accelerators, electromagnetic pulse technology
- High power pulsed lasers
- High intensity electron beams for material processing
- Crowbar protection etc.

## Absolute (Maximums/Nonsimultaneous) Ratings

|  | standard<br>models | Peak<br>Forward<br>Anode<br>Voltage, kV | Feak Forward Anode Current, kA | Anode Current Pulse Duration, µsec | Peak<br>energy<br>per shot, J | overall dimensions, ØxH, mm |
|--|--------------------|---|--------------------------------|------------------------------------|-------------------------------|-----------------------------|
|  | TDI1-50k/16        | 20                                      | 70                             | 100                                | 2000                          | 65x100                      |
|  | TDI1-50k/35        | 45                                      | 70                             | 100                                | 2000                          | 65x160                      |
|  | TDI1-50k/25        | 25                                      | 100                            | 100                                | 15000                         | 125x135                     |
|  | TDI1-50k/50        | 50                                      | 100                            | 100                                | 15000                         | 125x148                     |
|  | TDI1-200k/25       | 25                                      | 200                            | 500                                | 40000                         | 150x111                     |
|  | TDI4-100k/45       | 45                                      | 150                            | 100                                | 20000                         | 152x136                     |
|  | TDI4-150k/50       | 50                                      | 200                            | 500                                | 40000                         | 176x145                     |
|  | TDI4-100k/75       | 75                                      | 100                            | 100                                | 15000                         | 152x160                     |
|  | TDI1-100k/150      | 150                                     | 100                            | 100                                | 15000                         | 152x250                     |
|  |                    |   |                                |                                    |                               |                             |



Notes

a. All the models are available in standard, hollow anode, double-ended and no-permanent-reservoir-heating packages. b. Upon request models with pulse repetition rate up to 1000 Hz are available c. All data and specifications are subject to change without notice

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