

RU-Series Three-electrode Spark Gaps



- No standby power consumption
- Compact and robust design
- Low cost
- Lifetime over 10^7 shots
- Operating temperature -60 to +300°C
- Customized solutions

The range of three-electrode spark gaps offered by PulseTech comprises hermetically sealed gas filled switches available with DC hold-off voltages from 0.5 to 150 kV.

- **Medical lithotripsy**
- **Aircraft engines firing**
- **Peaking circuits**
- **Crowbar protection**
- **General fast high energy switching**

Absolute (Maximums/Nonsimultaneous) Ratings

Standard models	Operating Range, kV	Maximum charge transfer, mC, repetitive /single discharge	Peak current, kA, repetitive /single discharge	Delay time, μ sec,	Overall dimensions, \varnothing xH, mm
RU87	0.6 – 10	3/100	1/7	1	22x48
RU83	0.6 – 6	5/200	1/7	0.3	38x32
RU84	1.0 – 15	5/200	1/7	0.3	38x40
RU85	5.0 – 50	5/200	1/7	0.3	38x55
RU86	5.0 – 50	400	15	0.3	65x50
RU89	2.0 – 150	500	15	0.3	52x84
RU90	5.0 – 50	100 000	100	0.3	150x160

Notes:

a. Tubes with various DC hold-off voltage are available. This is signified by numerals following the model type after hyphen, e.g. RU83-7 means that the DC hold-off voltage is 7 kV.

b. For use above a specific voltage for each type of spark gaps immersion in insulating media can be recommended.

c. The life of a spark gap is governed primarily by the deposition of electrode material on the insulating surfaces. The rate of erosion of the electrodes may be related to peak current as $-(I_{pk})^6$

d. The life of a spark gap also increases with decreasing repetition rate.

e. All data and specifications are subject to change without notice.