

(PREVIEW)
Indian Standard
POWER ELECTRONICS CAPACITORS

1 SCOPE

1.1 This standard applies to capacitors intended to be used in power electronic equipment, particularly for:
 (a) Semiconductor switching and protection, and (b) filtering (see Note 2).

1.1.1 The rated voltage of these capacitors is limited to 10 000 V. The basic frequency of the systems in which these capacitors are used is usually below 1 000 Hz, while the pulse frequencies may go up to several 1 000 Hz and in some cases beyond 10 000 Hz.

1.1.2 This standard distinguishes ac capacitors and dc capacitors and are considered as components housed in closed cabinets.

NOTES

1 The requirements for capacitors, protected by internal fuses and internal disconnecting devices, as well as requirements for self-healing tests, endurance tests are destruction tests are covered separately in IS 13580 : 1992 and IS 13341 : 1992.

2 This standard covers an extremely wide range of capacitor technologies for numerous applications. Examples are given in Section 6.

2 REFERENCES

2.1 The list of referred standards is given in Annex A and form adjunct to this standard.

ANNEX A**(Clause 2.1)****LIST OF REFERRED INDIAN STANDARDS**

<i>IS No.</i>	<i>Title</i>
3716 : 1978	Application guide for insulation coordination (<i>first revision</i>)
2500 (Part 1): 1973	Sampling inspection tables : Part 1 Inspection by attributes and by count of defects (<i>first revision</i>)
9 000	Basic environments testing procedures for electronic and electrical items; ,
(Part 4) : 1979	Part 4 Damp heat (steady state)
(Part 5/Sec 1 and 2) : 1981	Part 5 Damp heat (cyclic) test
(Part 8) : 1981	Part 8 Vibration (sinusoidal) test
13580 : 1992	Internal fuses and internal overpressure disconnectors for power electronic capacitors
13341 : 1992	Requirements for ageing test, self-healing test and destruction test on shunt capacitors

IS 13666 : 1993

of the self-healing type for ac power systems having a rated voltage up to and including 650 V.
Draft energy storage capacitors tors