

Magnetic Field Coil

SC-1000 【Introduction】



The SC-1000 Magnetic Field Coil is available in single-turn and three-turn windings. When paired with a power frequency magnetic field generator module, it can meet the requirements for power frequency magnetic field testing. When paired with a pulsed magnetic field generator module, it can satisfy pulsed magnetic field testing requirements. Additionally, when paired with a damped oscillatory wave test module, it can fulfill the testing requirements for damped oscillatory wave magnetic fields. The coil can achieve test requirements of 300 A/m for steady-state power frequency magnetic fields, 1000 A/m for transient power frequency magnetic fields, and 2000 A/m for pulsed magnetic fields.

Compliance Standards

IEC 61000-4-8 、 IEC 61000-4-9 、 IEC 61000-4-10 、 GB/T 17626.8 、 GB/T 17626.9 、 GB/T 17626.10

Application Fields

Industrial equipment, electrical power meters, automotive electronics, medical devices, lighting fixtures, communication transmission equipment, audio-visual equipment, low-voltage electrical appliances, electronic components, electric tools, information technology equipment, railway transportation, aerospace electrical appliances, and instrumentation.

Parameter List

Specification	SC-1000
Interference Type	Power Frequency Magnetic Field Immunity, Impulse Magnetic Field Immunity, Damped Oscillatory Wave Magnetic Field Immunity
Magnetic Field Intensity	1 ~ 400 A/m(long duration); 100 ~ 1200 A/m(short duration)1 s ~ 3600 s

Coil Dimensions	1 m*1 m
Coil Material	Copper
Number of Coil Turns	1 turn, 3 turns
Coil Factor	0.79, 2.4
Weight	30 kg
Temperature	15°C~ 35°C (operating conditions)
Humidity	30% ~ 60%(operating conditions)
Atmospheric Pressure	86 kPa ~ 106 kPa
Standard Accessories	Main unit, connecting cables, test report, user manual