Power Quality Devices By:

ST-GPE Series

SineTamer
Energy Control Systems

Ground Potential Equalizer

"Power Quality is our Only Business"

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Today's commercial facilities are home for highly advanced electrical and electronic equipment. Earthing and bonding challenges for effective operation of this equipment, safety of this equipment and safety of operator have increased. International standards and recommendations call for a Single Point Earthing (Grounding) however electronic equipment manufacturers and facility maintenance professionals experience frequent ground potential rise (GPR) and stray voltages in the electrical equipment as electrical noise affecting electronic equipment. ESD current grounding and lightning protection system grounding have also been blamed for creating common mode noise and inducing power disturbance on electronic circuits.

Isolation Spark Gap is a hi-tech electronically triggered isolation circuitry for isolation of electrical and electronic earthing (grounding) systems on the same facility. Under normal conditions the Isolation Spark Gap circuitry is open and does not allow any disturbances from the electrical grounds to affect electronic ground *reference*. The isolation is designed to electronically break down at a predefined potential difference between the two isolated earthing (grounding) systems. The potential difference could arise due to short circuit current, surge current, transient impulse current or stray current - under all situations the Isolation Spark Gap would close the circuit bringing the isolated earthing systems at the same potential to safe guard electronic, electrical and human resources and would fall open as soon as the fault is cleared. This device can operate thousands of time with perfect thermal stability and quick response time.

ELECTRICAL

- High Surge Current and Short Circuit Current Handling Capability
- Multiple event handling capability
- Quick response time
- Weatherproof enclosure for below grade installations
- Thermal insulation and Explosion resistant
- Shock and vibration resistant
- Maintenance Free

Model	ST-GPE50	ST-GPE100
Spark-Over Voltage @100V/s	600V	
Max Discharge Current, I max 8/20uS	250kA	500kA
Nominal Discharge Current, 8/20uS	200kA	400kA
Impulse Current, 10/350uS	50kA	100kA
Voltage Protection Level @ 1kV/uS	< 1.4V	
Insulation Resistance	> 1000MΩ	
Capacitance	< 30pF	
Enclosure	Oxidized Aluminum, weather proof, resin sealed	
Dimension & weight	D 35mm x L 180mm, 5.5g	
Temperature	- 40c ~ 90c	

Because we are constantly seeking to improve our products, specifications are subject to change at any time.

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