

POWER FOR YOUR BIGGEST PROJECTS

The PowerSting™ system is a series of external high-power transmitters—5-kilowatt, 10-kilowatt, and 15-kilowatt—specifically engineered for the SuperSting™ instrument.

The PowerSting™ system is a fully-programmable constant voltage/constant current source. It is available with an SGS generator and a wireless repeater box.

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POWER STING™



USE CASES

The PowerSting™ system is designed to work with multiple applications, including:

- + Vertical electrical sounding
- + 2D electrical imaging
- + 3D electrical imaging
- + 3D-offset electrical imaging of a 2D survey line in both manual and automatic modes

Great for Mineral Exploration

The PowerSting™ can be used to automatically charge up the large, deep areas of the ground (where ore bodies are suspected). The SuperSting™ then turns off the PowerSting™ IP transmitter and uses its receiver to listen and record the decay of voltage over time. The data is processed using the EarthImager™ 2D or 3D software in order to get chargeability (IP) images, similar to the resistivity images recorded at the same time.

POWER, IN MANY FORMS

The PowerSting™ is available in different models in three different lines:

5-kW PowerSting™

Choose between

- + 2.5 Amp / 2,000 Volt
- + 5 Amp / 1,000 Volt
- + 10 Amp / 500 Volt

Power source:

Single-Phase, 208-220 Volt,
50/60 Hz, 7.5kw (Minimum)

10-kW PowerSting™

Choose between

- + 3.2 Amp / 3,000 Volt
- + 5 Amp / 2,000 Volt
- + 27 Amp / 375 Volt

Power source:

3-Phase, 208 Volt, 50/60 Hz,
15 kW (Minimum)

15-kW PowerSting™

Choose between

- + 5 Amp / 3,000 Volt
- + 7.5 Amp / 2,000 Volt
- + 10 Amp / 1,500 Volt
- + 15 Amp / 1,000 Volt
- + 30 Amp / 500 Volt

Power source:

3-Phase, 480 Volt, 50/60 Hz,
22.5 kW (minimum)

FEATURES

- + Fully programmable, external high-power (constant voltage/constant current) source can be used with our SuperSting™ instruments.
- + Automatic shut-off for input power loss, overheating, over voltage, over current, or fuse in order to keep users safe.
- + Communication between SuperSting™ and PowerSting™.

PowerSting™ Technical Specification

AGI PowerSting™ – 5kW, 10kW, 15kW external high power transmitters
for the SuperSting R8/IP/SP & SuperSting R1/IP/SP

| Item | Description |
|--|--|
| Output current stability | Automatically controlled |
| Transmitter Lower Current Limit | 1mA. |
| Transmitter Voltage Steps | 1V. |
| Transmitter Current Steps | 1mA. |
| Transmitter Output Voltage Accuracy | 0.1V |
| Storage Temperature | -25°C to 85°C |
| Operating temperature | 0°C to +50°C |
| Display | Built-in LED display indicating status, fault codes, power in watts, current and voltage, contact resistance, transmit function, on/off and emergency shut off. The SuperSting™ and Android device will display all the above parameters along with real time data plot, resistance, resistivity, etc. |
| IP time cycles | 0.5 s/1 s/ 2 s/4 s/8 s, user selectable controlled by SuperSting™ |
| Measurement cycle | ON+, OFF, ON-, OFF |
| Time stability | Better than 0.01% |
| Instrument auto shut-off | Protection against over voltage, under voltage, over current, overheating and input power loss |
| Connection | Connection between the PowerSting™ and the SuperSting™ is wired |
| Maximum transmitter power | 5,000W, 10,000 W, 15,000 W |
| Maximum current output options | 5 kW – 5 Amp (1,000 V), 2.5 Amp (2000 V) 10 kW – 3.3 Amp (High Voltage – 3,000 V), 10 Amp (1,000V), 27 Amp (High Current – 375 V) 15 kW – 15.0 Amp (1,000V), 7.5 Amp (2000 V), 6 Amp (2500 V), 5 Amp (3000 V) |
| Dimensions & Weight (including field box) | 5kW Weight: 82.6 Kg (182 lbs.)—Includes Integrated Shipping Case 10kW and 15kW Weight: 102 Kg (225 lbs.)—Includes Integrated Shipping Case 5kW-10kW-15kW Width: 67.5 cm (26.58”); Depth: 91.4 cm (36”); Height: 49.5 cm (19.5”) |
| Power Supply | AGI PowerSting 5 kW can be used with any ≥ 7.5 kW off-the-shelf generator. AGI PowerSting 10 kW and 15 kW must be used with the AGI SGS Generator. The AGI SGS 15 kW is a custom (made for AGI only) 15,000 Watt AC, 3-phase, 208 volt, 60Hz generator. The AGI SGS 15 kW generator is based on a Honda engine implementation for easy worldwide repair. |