



# DC VOLTAGE GRADIENT TECHNOLOGY & SUPPLY LTD

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## 150 Amp Satellite-Synchronisable Interrupter Technical Data Sheet

### Cat. No.: L0050SAT

- ❖ Equipment: 150amp Satellite-Synchronised Interrupter for pulsing the CP System ON and OFF.
- ❖ Switch Type: Mosfet (Static).
- ❖ It utilizes a Metal Oxide Semiconductor Field Effect Transistor (MOSFET) rated at 3 X 180 Amps, 200 volts DC to switch DC one of four fixed sequence speeds and user defined timing determined by the position of the selection switch.
- ❖ Terminals: Differently Marked; Black / Red.
- ❖ Powered: 12V DC Battery.
- ❖ Synchronization: satellite aerial (external with cable connection)
- ❖ Knobs: ON/ OFF Switch and Timing Selector Switch.
- ❖ Set timing sequences: ON/ OFF 0.45/0.8S; 1.6/0.9S; 0.8/0.45S; and 3/2S.
- ❖ User defined timings: minimum timing selection is 0.45 seconds and the maximum is 99 seconds.
- ❖ Plus and minus buttons increase and decrease in 5 millisecond increments for user defined timings.
- ❖ The order of delay can be swapped, in relation to sequence synchronization to the GPS attained Coordinated Universal Time (UTC). The standard sequence is ON and then OFF. The checkbox "ON /OFF" indicates the chosen sequence order.
- ❖ The load output screen displays the current through the interrupters external positive and negative terminals.
- ❖ The load voltage digital box displays D.C voltage. The voltage range is between 0- 100Volts.
- ❖ The current digital read out display shows the induced current in an impressed current system, CP system. The current range is between 0 - 150 amps.
- ❖ The timed interrupter screen provides the option to select a start and stop time during the day/night of the interrupter timing sequence. This will start/stop the Interrupter automatically.
- ❖ LED light indicators: GPS synchronization, function ON/OFF and battery charging.
- ❖ Connectors for: Aerial cable, battery charger on front panel.
- ❖ Accessories: - Satellite aerial with 3m connection cable.
- ❖ - Batteries charger 240AC/50Hz with cable connection suitable for interrupter socket.
- ❖ Label: Type of equipment, serial no./ year of fabrication, producer (as per EN directive). Made in United Kingdom. Manufacturer Contact Details.
- ❖ Recommended operation 125amps.
- ❖ 12V Lead acid battery 4.5amps Hr.



125amp Satellite Synchronised Interrupter

### **GPS Satellite Aerial**

- ❖ Satellite aerial for logging on to the satellites. GPS sensor including embedded receiver and antenna.
- ❖ Used to track multiple satellites at a time whilst providing fast time-to-first-fix, one second navigation updates and low power consumption.
- ❖ This GPS sensor includes the capability of FAA Wide Area Augmentation System (WAAS) differential GPS or RTCM corrections yielding submeter up to 3-5 metre position accuracy.
- ❖ Designed to withstand rugged operating conditions and are waterproof to IEC60529IPX7, immersion in 1 meter of water for 30mins.
- ❖ High accurate one pulse per second (PPS) output for precise timing and measurements. Pulse width is configurable in 20-millisecond increments from 20ms to 980ms with 1µs accuracy.



**GPS Satellite Aerial**

### **120/240V Battery Charger**

- ❖ Battery charger comes in small black plastic box with a lead out either end.
- ❖ At rear of battery charger is cable for connection to mains electricity.
- ❖ At other end is black panel with the mains voltage range switch, 120 or 240V AC selection.
- ❖ Also a one ampere fuse for protection and red LED charging light.
- ❖ Low voltage cable at front of black panel that has a two pin plug to connecting to Interrupter for charging.



**120/240V Battery Charger**

### **Power Cable to External 12V Battery – External Battery Cable**

- ❖ Sheathed black cable with one red and black croc clips to connect to external battery.
- ❖ Black/Silver connection end to plug into the Interrupter to power equipment up by an external battery like a car battery.
- ❖ Once External battery cable is connected into interrupter it disconnects the internal interrupter battery so interrupter is powered up by external car battery

