



DC VOLTAGE GRADIENT TECHNOLOGY & SUPPLY LTD

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Technical Data Sheet

50 Amp Satellite-Synchronisable Interrupter

Cat. No.: L0050SAT

- ❖ Equipment: 50amp Satellite-Synchronised Interrupter for pulsing the CP System ON and OFF.
- ❖ Capacity of switching device is 180amps 200V DC.
- ❖ Switch Type: Mosfet (Static).
- ❖ Terminals: Differently Marked; Black / Red.
- ❖ Powered: 12V DC Battery.
- ❖ Synchronization: satellite aerial (external with cable connection).
- ❖ Knobs: ON/ OFF Switch and Timing selector switch
- ❖ Timing sequences: ON/ OFF 0.45/0.8S; 1.6/0.9S; 0.8/ 0.45S; 3/2S and 4/1S.
- ❖ 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.
- ❖ Other Characteristics: Interrupter Box::
Dimension: 23 x 14 x 14.5 cm
Weight: 3.54kg
Rugged construction/ metal box plus heat sink to dissipate heat
- ❖ Label: Type of equipment, serial no./ year of fabrication, producer (as per EN directive). Made in United Kingdom. Manufacturer Details.
- ❖ Recommended operation 50 to 80amps.
- ❖ 12V Lead acid battery 4.5amps Hr.



**50 amp Satellite
Synchronised**

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

120/2040V 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



External Battery Cable for Satellite Synchronised Interrupter