Low Burden Fault **Driven Power Supply**



AVAILABLE FROM NEPEAN ELECTRONICS

NEPEAN Power is a proven leader in the supply and manufacture of quality engineered solutions, products and technologies. Established in 1994, through the commitment of our dedicated team we have become a supplier of choice.

The output of the Fault Driven Power Supply is 48Vdc and The Fault Driven power supply is also current limited to used to trip circuit breakers and/or power other protective protect against overloading. Over loading may easily occur devices. Primary input power to the Fault Driven Power if a shunt trip coil is left in circuit on power up, which may Supply is 110Vac with a secondary power input of 3 circuits be the case in the event of an emergency stop button being from current transformers on the mains input to the equipment operated and not released. being protected.

NEPEAN Power

The unit provides a regulated 48V supply capable of supplying If operating in Current Limit, a red LED on the front panel a continuous 1800mA with a short term pulse capability of will be on. If the current limit condition continues the unit will 10A. This allows the Fault Driven Supply to be used to power switch off to protect the power supply from overheating and both protection relays and also heavily rated shunt trip circuits causing permanent internal damage. This second condition on main circuit breakers.

Three additional outputs are provided which may be used for monitoring or included as additional protection in control circuits. These contacts are;

1) Mains Healthy, which closes when there is 110VAC present.

2) 48V Healthy which is operated when there is greater than 45V on the output terminals.

3) Shunt Trip voltage output, which may be used as a pseudo no-volt circuit, this output turns on when the bus volts drops from a healthy state (of greater than 45V) to 36V. This directly connects the DC bus to the shunt trip terminal and is intended to directly operate the shunt trip of a breaker. This would only be used if it is intended that the main breaker is to be opened upon loss of input supply.

is indicated on the front panel with an Over Temperature LED.

Ordering Information

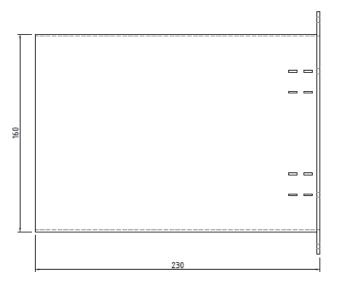
Part	Description
X0106-C	5A Fault Driven Supply 80-305V AC 1.8Amp Output Low Burden
X0161-B	1A Fault Driven Supply 80-305V AC 1.8Amp Output Low Burden

Design Data

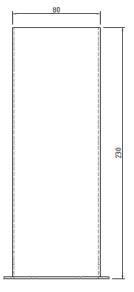
Part No	Description	Impedance (ohms)	Burden (VA)
X0106-C	5 Amp CT Supply	0.01	0.25
X0161-B	1 Amp CT Supply	0.33	.033

Fault Driven Power Supply

Case Dimensions

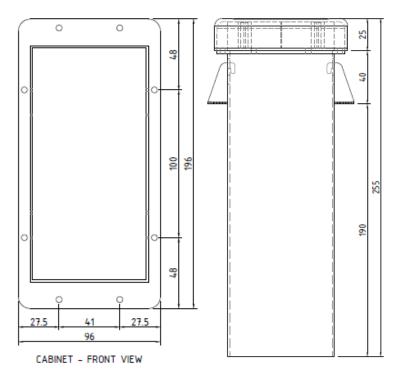


CABINET - SIDE VIEW

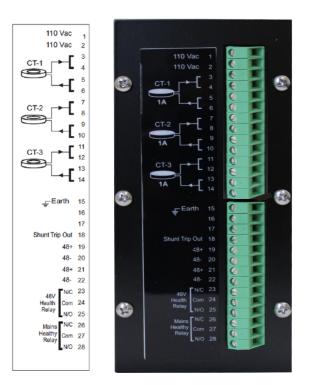


CABINET - TOP VIEW

Mounting Cut Out



Rear Terminal Layout





For more information please contact: P: +61 2 4088 2790 E: power@nepean.com