

CP150 – Impressed Current Cathodic Protection



- The CP150 power modules are ideal for multi-zone/channel requirements
- Standard options available 0- 25V and 0-3A each output
- Other options available on request
- In-built interrupter supplied as standard
- Ultra-low ripple for enhanced accuracy
- Contact Voltage, current and potential control modes
- Optional upgrade for remote monitoring and control
- Simple to use multi-functional display (VFD standard, LCD optional)
- Up to 120 zones per system available

INPUT

AC Voltage : 230VAC (85-264) Single Phase*
 *can be configured for 3-phase+N operation if required
 Current : 2.5A rms maximum at 85VAC
 Frequency : 45 – 66Hz
 Power Factor : >0.98 at 40-100% load
 Efficiency : >90% at >50% output power
 Inrush current : <5A peak at nominal mains voltage
 Soft start : power on ramp-up time <5 secs
 Protection : Surge protection varistors
 : Inrush current limiting circuit

OUTPUT

Standard output : 0-12V 3A per zone
 Voltage range : 100mV to full volts (10mV steps)
 Current range : 1mA to full current (1mA steps)
 Potential range : 0V to -5V structure wrt ref cell
 Ripple : <20mV or 0.2% at full load
 Dynamic Resp. : Set point change controlled by software ramp

PROTECTION

Input : Surge protection varistors
 : Inrush current limiting circuit
 Output : Internal fuse
 : Surge suppression on line
 : EMC filtering
 Over temperate : Output power reduced

INDICATORS AND ALARMS

All Alarms are indicated by an LED. Relay contact/closure and/or digital comms to external monitoring

Mains too low	: Always active
Output open circuit	: Always active
High temperature	: Always active
Low output volts	: User select/program
High output volts	: User select/program
Voltage out of range	: User select/program
Low output current	: User select/program
Under protection	: User select/program

SYSTEM OPERATION

- Constant potential mode
- Constant current mode
- Constant voltage mode
- Interrupter mode (standard)
- User programming module
- Digital metering

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MECHANICAL

Size : Can be provided in a variety of cabinets and enclosures. Minimum depth of cabinet 300mm

Weight : Dependent on enclosure and power requirements

ENVIRONMENTAL

Cooling : Natural Convection

Temperature : -20°C to +55°C operational
: -40°C to +70°C transport/storage

Relative Humidity: 0-90% non-condensing

Altitude : to 3,000 metres

INTERFACES

Main power input : Single-phase line connection

Main power output : Anode drive (wrt Structure)

Potential Input : For connection to reference cell

Discrete Control : For external shutdown

Options modules : For system enhancement

OPTION MODULES/UPGRADES

GPS : For Interrupter synch

EEPROM : Expansion module

USB Port : For local communication

TCP/IP : For remote communication

GSM * : For remote communication

SMS * : Remote Alerts

*2 years standard SIM contract

TYPICAL CP150 INSTALLATION AND CONTROL PANEL



CUSTOM BUILT SOLUTIONS

We are able to supply custom-built systems with higher current outputs, alternative voltages, multiple zones and a range of different enclosures.