

CP30 – Impressed Current Cathodic Protection



- The CP30 power modules are ideal for low power multi-zone requirements
- Standard option available 0-24V and 0-2A each output
- Other options available on request
- In-built interrupter supplied as standard
- Ultra-low ripple for enhanced accuracy
- Constant Voltage, current and potential control modes
- Optional upgrade for remote monitoring and control
- Simple to use multi-functional display
- Up to 256 zones per system available
- Built in test points

INPUT

AC Voltage	: 230VAC (85-264) Single Phase*
*can be configured for 3-phase+N operation if required	
DC Voltage	: 48VDC
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 outputs	
	: 0-12V 0-2A per zone
	: 0-24V 0-1A per zone
Voltage range	: 10mV 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 temp.	: Output power reduced

INDICATORS AND ALARMS

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

Mains fail	: 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 250mm
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 CP30 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.