

Portable Impressed Current Cathodic Protection



- IP67 Portable ICCP Solution
- Standard options available 50V 10A or 25V 20A
- Custom outputs 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
- Switch mode power supplies allowing control of all outputs

INPUT

AC Voltage	: 230VAC (85-264) Single Phase
Current	: 6.5A rms maximum at 85VAC
Frequency	: 45 – 66Hz
Power Factor	: >0.98 at 40-100% load
Efficiency	: >90% at >50% output power
Inrush current	: <8A peak at nominal mains voltage
Soft start	: power on ramp-up time <5 secs
Protection	: Inrush current limiting circuit

OUTPUT

Standard Outputs	: 50V 0-10A+
	: 25V, 0-20A+
Voltage range	: 100mV to full volts (10mV steps)
Current range	: 10mA to full current (10mA 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	: Inrush current limiting circuit
Output	: Internal fuse
	: 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

COMPLIANCE

Safety	: IEC 60950
EMC	: EN55081-2
	: EN55082-1

CP500 – Impressed Current Cathodic Protection

MECHANICAL

Size : 464mm x 366mm x 176mm
Weight : 7 kg

ENVIRONMENTAL

Cooling : Natural Convection
Temperature : -20°C to +55°C operational
 : -30°C to +90°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)
USB : For local communication