



Data Sheet - Cathodic Protection Controller SP-CPCx

Product Overview

The SPK CPCx series of Cathodic Protection Controllers utilises high-speed pulse width modulated switching technology to ensure the highest conversion efficiency fully maximising the power from the solar generator.

The controller is suitable for connection to 12, 24 or 48V DC systems (to be specified at time of ordering) with output current options of 25 and 50A. The controller is capable of controlling the power delivered to the load to a maximum of 1V below the input voltage.

Product Features

Controls

Operating parameters are set by multi-turn controls with LED and volt-free contacts for indication of control mode.

- Constant Output Voltage Mode;
- Constant Output Current Mode;
- Constant Reference Cell voltage;
- Low Current Alarm LED and volt-free contacts;
- High Current Alarm LED and volt-free contacts;
- Crystal controlled Interrupt Timer (1-999 seconds ON and 1-999 seconds OFF);
- Output circuit breaker to protect the unit and allow the user to turn off the output.

Metering & Display via LCD Display

- Voltage set -point;
- Output voltage;
- Current set-point;
- Output Current;
- Half-Cell set-point;
- Half -Cell voltage;
- Low Current Alarm set-point;
- High Current Alarm set -point.

Terminations

- 2 power input terminals (M8 studs);
- Anode and drain output terminals (M8 studs);
- 2 input terminals to connect the Half-cell / pipe with an input impedance of 1M Ω .

Enclosure

- Enclosure is stainless steel with and ingress protection rating of IP66 as defined in BS EN 60529:1992. Other options available;
- Dimensions: 600 x 400 x 200 mm (h x w x d).



CPCx Cathodic Protection Controller

Output

- Voltage to within 1V of the battery voltage;
- Current to the maximum stated;
- Output Resistance $\geq 0.25\Omega$.

Environment

The controller will operate in the following conditions:

- 99% relative humidity;
- -10 $^{\circ}$ to 55 $^{\circ}$ C ambient temperature.

Remote Monitoring / Control

- Optional remote monitoring;
- Optional remote control;
- Optional radio synchronisation of interrupt timer;
- Optional RS 232 port.

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