![cathwell® logo]
www.cathwell.com

CATHSENSE® CONTROL PANEL TECHNICAL DATA SHEET

CathSense® is a state-of-the-art current rectifier and regulator for ICCP corrosion protection systems. The lightweight design and volume make for a small footprint. The control panel incorporates switch-mode technology for efficient energy conversion and provides a predictable and low maintenance cost solution for corrosion protection

The CathSense® system incorporates fold-back current limitation, which restricts the DC output current in case of supply rail component failure. CathSense® systems tolerate an indefinite short-circuit across the DC output poles.

Main components:

- IP44 or IP65 outer cabinet
- Inner rack with module slots, I/O terminals
- C100 control module, 1 pcs
- P3200 PowerSense module(s), up to 4 pcs

CathSense® provides an RS485 and an Ethernet port for remote monitoring. CathSense® can be combined with MasterCath®, an optional software and hardware package that utilizes the built-in communication features of the CathSense® to offer remote control and central monitoring of ICCP system performance. The package can be custom-built to different types of needs and for any number of control panels.

Output current capacity ranges from 120 to 480 A. Each PowerSense module can be individually controlled and regulated according to fixed current/voltage or according to measured reference potentials.

Controller C100 versions: MK1 (no Ethernet)
                           MK2 (release 2 with RJ45 Ethernet web access)

CathSense®120-3

OUTPUT	
Voltage	32 VDC
Current	120 A per P3200
	Maximum 480 A
Ripple	<100 mV p-p (B.W. 30 MHz

INPUT	
Voltage	3 phase 340-466 VAC
Nominal current	5.2 A per P3200 module at 400 VAC
Inrush current	40 A/10 ms per P3200 at 400 V
Frequency	47-63 Hz
Efficiency	>89 %

OPERATION	
Display	LCD
Menu navigation	5 function keys
Output ON/OFF	Pushbutton

INTERFACE	
RJ45 (MK2)	HTTP JSON/format
RS485	Modbus RTU
USB type A	Log export Firmware update
Alarm	NC/NO potential free relay contact

OTHER DATA	
Safety	EN60950-1-2005-12
EMC	EN 60533:1999:11
Ambient temp.	-10°C to +50°C
Cabinet colour:	RAL 7035

Data sheet

Doc. no.:   0225
Revision: 06
Rev. date: 02.01.2023

cathwell®

www.cathwell.com

CATHSENSE® CONFIGURATIONS

Type	Power consumption (W)	Output current capacity (A)	Weight (kg)	Dimensions (WxHxD)	Ingress protection
CathSense® 120-3-IP44	3 200	120	43	575x699x555 mm	IP44
CathSense® 240-3-IP44	6 400	240	51	575x699x555 mm	IP44
CathSense® 360-3-IP44	9 600	360	72	970x699x555 mm	IP44
CathSense® 480-3-IP44	12 800	480	80	970x699x555 mm	IP44