

IQ-CI Series

Multi-channel high voltage power supply : from 2 to 8 channels

custom product



IQ-CI302103 model
8x3000V, 30W

Example : Reference: **IQ-CI302103**
Vin : universal 85-264 VAC
Vout : 3kV
Pout : 30W

The IQ-CI Series is based on the IQ-Series. Possible operation either in local or remote modes.

For stand-alone operation, this power supply is fitted with a unique control button for all the output channels.

For remote control operation, this board is fitted with a RS232/RS485 serial port or a field bus adapter for protocols such as Profibus-DP V0 and V1, CANopen, DeviceNet, Ethernet 10Mbits, Fast Ethernet 10/100Mbits, Interbus, Lonworks, I²C. (interface or protocol must be precised in specifications).

The IQ-CI Series is to be plugged into the mains. This unit can contain up to 8 high voltage power supplies in order to feed several electronic devices.

As an example, the characteristics of model reference IQ-CI302103 are given below. Unit equipped with height 3kV, 30W outputs in remote control operation via RS232 : SCPI 1999 standard.

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|--------------------------------|---------------------------------|--|
| ▪ output voltages to $\pm 3kV$ | ▪ low ripple | ▪ local and remote operation |
| ▪ rack mounting | ▪ tight line/load regulation | ▪ remote and front panel monitoring of DC output voltage |
| ▪ low profile and lightweight | ▪ positive or negative polarity | ▪ protection against overload, short circuit and arc |

Parameters	Specifications of the IQ-CI302103 model	
Line input	universal 85-264 VAC	
Mains and high voltage controls	<ul style="list-style-type: none"> ▪ mains : ON/OFF switch on front panel ▪ high voltage : ON/OFF switch on front panel 	
Output voltages	from 0 to 3000V	
Output currents	10mA max.	
Polarity	positive and or negative outputs, but not reversible	
Load voltage regulation	$\pm 0,01\%$ of full output voltage for no load to full load	
Line voltage regulation	$\pm 0,01\%$ of full output voltage over specified input voltage range	
Residual ripple	0,01% peak-to-peak at full load	
Temperature coefficient	100ppm/°C (higher stability upon request)	
Safeguards	screw plug for grounding on rear panel	
	Local mode specifications (controls on front panel)	Remote mode specifications (example for a RS232 Serial Interface)
Local / Remote mode	front panel switch	RS 232 (priority : Remote mode)
High Voltage ON/OFF	front panel switch	RS 232
Voltage setting	via a potentiometer on front panel	RS 232
	Local mode monitoring (front panel)	Remote mode monitoring (example for a RS232 Serial Interface)
Remote mode	LED indicator on front panel	RS 232
Information display	on LCD graphic display 128x64 pixels	RS 232

Mechanical Configuration	
Insulation	high voltage assembly fully potted in an epoxy resin or in another specially selected material
Case	rack 19" 2U, Length: 482mm, Height: 88mm, Depth : 420mm
Mains input	IEC 320 type AC connector fuse (L 1.5A) on rear panel
High voltage output connector on rear panel	high voltage BNC

