

CPS

COMPACT BUILT-IN HIGH VOLTAGE MODULE

- ▶ Patented resonance converter technology
- ▶ Available as metal box
- ▶ Combinable in a multichannel THQ AC/DC HV power supply
- ▶ INHIBIT
- ▶ Hardware limits for voltage and current
- ▶ Low ripple and noise, low EMI
- ▶ Customised versions on request



CPS modules are highly stable analog controlled high voltage power supplies. They are available as compact metal box or system capable in 3U Eurocassette standard. Standard modules of the CPS series can be used as standalone DC/DC converters, combined to multichannel AC/DC supply in a THQ device or integrated in a modular MMC system. The output voltage is controllable via analog interface with either an external potentiometer (internal reference voltage) or an analogue control voltage.

To protect the connected load the modules are equipped with INHIBIT, current and voltage limits.

SPECIFICATIONS

Polarity	factory fixed, positive or negative
Ripple and noise [f > 10 Hz]	< 10 kV: typ. < 2 • 10 ⁻⁵ • V _{nom} ≥ 10 kV: typ. < 5 • 10 ⁻⁵ • V _{nom}
Stability - [ΔV _{out} / ΔV _{in}]	< 1 • 10 ⁻⁴ • V _{nom}
Stability - [ΔV _{out} / ΔR _{load}]	< 2 • 10 ⁻⁴ • V _{nom}
Temperature coefficient	100 ppm / K
Supply voltage	22.8 - 25.2 V
Set / monitor voltage	0 - 5 V optional: 0 - 10 V
Protection	overload and short circuit, INHIBIT, V/I-limit
Remote connector	D-Sub 9
HV connector	HV-cable
Case	metal box, moulded

CONFIGURATIONS

MODEL	V _{nom}	I _{nom}	L/W/H
CPx 05 206 24 5	500 V	20 mA	155/75/40 mm
CPx 10 106 24 5	1 kV	10 mA	155/75/40 mm
CPx 15 805 24 5	1.5 kV	8 mA	155/75/40 mm
CPx 20 605 24 5	2 kV	6 mA	155/75/40 mm
CPx 30 405 24 5	3 kV	4 mA	155/75/40 mm
CPx 40 305 24 5	4 kV	3 mA	155/75/40 mm
CPx 50 205 24 5	5 kV	2 mA	155/75/40 mm
CPx 70 155 24 5	7 kV	1.5 mA	155/75/40 mm
CPx 100 105 24 5	10 kV	1 mA	185/75/40 mm
CPx 150 604 24 5	15 kV	0.6 mA	185/75/40 mm
CPx 200 504 24 5	20 kV	0.5 mA	185/95/40 mm
CPx 300 304 24 5	30 kV	0.3 mA	185/95/40 mm

OPTIONS & ORDER INFO

OPTION:	ORDER INFO	EXAMPLE
Polarity	positive: x = p, negative: x = n	CPp 05 206 24 5
Set 0 - 10 V	AO	

ALSO AVAILABLE AS SYSTEM CAPABLE 3U MMC VERSION

