

DPS

HIGH PRECISION BUILT-IN HV MODULE

- ▶ Patented resonance converter technology
- ▶ High precision, high stability
- ▶ Very low ripple and noise, low EMI
- ▶ Available as metal box or 3U MMC version
- ▶ Combinable in multichannel THQ AC/DC HV supply
- ▶ INHIBIT, adjustable hardware limits
- ▶ Polarity electronically switchable
- ▶ Customised versions on request



DPS modules are highly precise and highly stable analog controlled high voltage power supplies. They are available as compact metal box or system capable in 3U Euro-cassette standard.

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

ALSO AVAILABLE AS SYSTEM CAPABLE 3U MMC VERSION

MMC



SPECIFICATIONS

Polarity	switchable
Ripple and noise [f > 10 Hz]	typ. < 3 mV _{p-p}
Stability - [$\Delta V_{out} / \Delta V_{in}$]	< $1 \cdot 10^{-5} \cdot V_{nom}$
Stability - [$\Delta V_{out} / \Delta R_{load}$]	< $5 \cdot 10^{-5} \cdot V_{nom}$
Temperature coefficient	< 50 ppm / K
Supply voltage	22.8 - 25.2 V
Set / monitor voltage	0 - 5 V optional: 0 - 10 V
Remote connector	D-Sub 9
Protection	overload and short circuit, INHIBIT, V/I-limit
HV connector	HV-cable SHV (optional)
Case	metal box, moulded (THQ capable)

CONFIGURATIONS

MODEL	V _{nom}	I _{nom}	L / W / H
DPR 05 106 24 5	500 V	10 mA	186/75/40 mm
DPR 10 106 24 5	1 kV	10 mA	186/75/40 mm
DPR 15 805 24 5	1.5 kV	8 mA	186/75/40 mm
DPR 20 605 24 5	2 kV	6 mA	186/75/40 mm
DPR 30 405 24 5	3 kV	4 mA	186/75/40 mm
DPR 40 305 24 5	4 kV	3 mA	186/75/40 mm
DPR 50 205 24 5	5 kV	2 mA	186/75/40 mm
DPR 60 155 24 5	6 kV	1.5 mA	186/75/40 mm

OPTIONS & ORDER INFO

ORDER	ORDER INFO	EXAMPLE
SHV connector	SHV	DPR 05 106 24 5 SHV
Set 0 - 10 V	AO	