

DPS

BUILT-IN OR SYSTEM CAPABLE HIGH PRECISION HIGH VOLTAGE MODULE

Out: 500 V - 6 kV | 12 W | In: 24V DC | Ripple: typ. < 3 mV_{p-p}



NEW

▶ ID chip in 3U version

MMC

THQ

AIO

VLN

CUSTOM

DC/DC

- ▶ 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 a multichannel THQ AC/DC HV power supply
- ▶ INHIBIT, adjustable hardware limits
- ▶ polarity electronically switchable
- ▶ customized 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 Eurocassette standard. The modules can be used as standalone DC/DC converters, combined to a multichannel AC/DC supply in a THQ or integrated in a modular MMC system. The output voltage is controllable via analog interface with either a 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.



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DPS module in a customized THQ lab power supply or 3U-eurocassette module in a digital controllable 19" crate

SPECIFICATIONS / SPEZIFIKATION

	DPS	DPS 3U
Polarity		switchable
Ripple and noise [f > 10 Hz]		typ. < 3 mV _{p-p}
Stability - [ΔV _{out} / ΔV _{in}]		< 1 • 10 ⁻⁵ • V _{nom}
Stability - [ΔV _{out} / ΔR _{load}]		< 1 • 10 ⁻⁵ • V _{nom}
Temperatur coefficient		< 5 • 10 ⁻⁵ / K
Supply voltage		22.8 - 25.2 V
Set / monitor voltage		0 - 5 V opt. 0 - 10 V
Remote connector	D-Sub 9	H15
Protection	overload and short circuit protected, INHIBIT, V/I-limit	
HV connector	HV-cable SHV	SHV
Case	metal box (THQ)	3U cassette (MMC capable)

CONFIGURATIONS / KONFIGURATIONEN

MODEL	V _{nom}	I _{nom}	L/ W/H - box	HP/depth - 3U
DPR 05 106 24 y	500 V	10 mA	186/75/40 mm	8 HP / 40,64 mm
DPR 10 106 24 y	1 kV	10 mA	186/75/40 mm	8 HP / 40,64 mm
DPR 15 805 24 y	1.5 kV	8 mA	186/75/40 mm	8 HP / 40,64 mm
DPR 20 605 24 y	2 kV	6 mA	186/75/40 mm	8 HP / 40,64 mm
DPR 30 405 24 y	3 kV	4 mA	186/75/40 mm	8 HP / 40,64 mm
DPR 40 305 24 y	4 kV	3 mA	186/75/40 mm	8 HP / 40,64 mm
DPR 50 205 24 y	5 kV	2 mA	186/75/40 mm	8 HP / 40,64 mm
DPR 60 155 24 y	6 kV	1.5 mA	186/75/40 mm	8 HP / 40,64 mm

ORDER & OPTIONS / BESTELLINFORMATIONEN

OPTION	ORDER INFO	EXAMPLE
Set / monitor voltage	0-5 V (standard): y = 05 , 0-10 V (optional): y = 10	DPR 05 106 24 10
SHV connector	SHV	
3U - MMC capable version	3UC	



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iseg is a manufacturer of very precise and stable High Voltage Power Supplies with focus on physics and industrial applications. The product portfolio includes AC/ DC, DC/DC and modular High Voltage systems. The company was founded in 1995. Continuous growth and innovation strengthened the company's market position. **iseg** is well known for the development of outstanding custom specific solutions for various special applications.

