made for experts

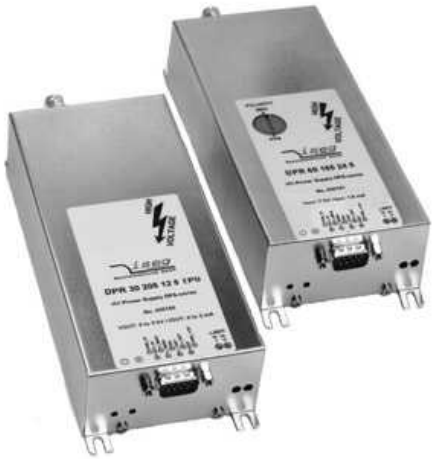
Unit 14, The Bridge, Beresford Way
Chesterfield, Derbyshire, S41 9FG, UK
Tel: + 44 (0) 1246 452909
Fax: + 44 (0) 1246 452942
Web: www.etps.co.uk
Email: sales@etps.co.uk
Sales: 0800 612 95 75

DPS

Precision High Voltage Modules

Description

The DPS product family consists of modules providing outputs up to 6kV at a maximum of 12W. Units are provided with a TTL signal for changing the output polarity. In addition, units with outputs of more than 1.5kV include a mechanical switch that also performs this function. As standard the unit is built into a compact metal box with mounting points. This choice of case material along with patented resonance mode operation ensures a low EMI. A 600mm bare ended HV cable is used to provide the output. If preferred an SHV connector can be specified. The DPS modules can also be built as 3U cassettes with up to 10 units housed in a 19" mainframe. An analogue interface is provided for control and monitoring. As standard a SUB-D 9 connector is used for both supply and control voltages. If the cassette option is chosen the module is built with an H15 connector. Hardware settings for voltage and current limits protect the connected unit.



- Precision high voltages of up to 6kV at 12W
- Available in 3U cassette or compact box
- Can also be used in THQ desktop series
- High stability output voltage
- Very low ripple & noise
- Switchable polarity

Selection Table

Part Number	Maximum Power (Each Channel)	Output Voltage	Output Current	Supply Voltage
DPR 05 106 24 5	5W	0 - 0.5 kV	0 - 10 mA	24VDC
DPR 05 106 12 5	5W	0 - 0.5 kV	0 - 10 mA	12VDC
DPR 10 106 24 5	10W	0 - 1 kV	0 - 10 mA	24VDC
DPR 10 106 12 5	10W	0 - 1 kV	0 - 10 mA	12VDC
DPR 15 805 24 5	12W	0 - 1.5 kV	0 - 8 mA	24VDC
DPR 15 805 12 5	12W	0 - 1.5 kV	0 - 8 mA	12VDC
DPR 20 605 24 5	12W	0 - 2 kV	0 - 6 mA	24VDC
DPR 20 605 12 5	12W	0 - 2 kV	0 - 6 mA	12VDC
DPR 30 405 24 5	12W	0 - 3 kV	0 - 4 mA	24VDC
DPR 30 405 12 5	12W	0 - 3 kV	0 - 4 mA	12VDC
DPR 40 305 24 5	12W	0 - 4 kV	0 - 3 mA	24VDC
DPR 40 305 12 5	12W	0 - 4 kV	0 - 3 mA	12VDC
DPR 50 205 24 5	10W	0 - 5 kV	0 - 2 mA	24VDC
DPR 50 205 12 5	10W	0 - 5 kV	0 - 2 mA	12VDC
DPR 60 155 24 5	9W	0 - 6 kV	0 - 1.5 mA	24VDC
DPR 60 155 12 5	9W	0 - 6 kV	0 - 1.5 mA	12VDC

Different output ranges and application/user specific options are possible. Please contact ET to discuss your requirements.

made for experts

sales@etps.co.uk
0800 612 95 75

DPS

Precision High Voltage Modules

Technical Data

Stability load ($\Delta V_O/\Delta V_{IN}$)	$< 1 \times 10^{-5} \times V_{NOM}$
Stability no load (ΔV_O)	$< 5 \times 10^{-5} \times V_{NOM}$
Ripple & noise	Typically $2mV_{p-p}$ (maximum $7mV_{p-p}$)
Temperature coefficient	$< 5 \times 10^{-5}/K$
Remote control	0-5Vdc (option 0-10Vdc)
Polarity	Switchable (via TTL signal, additional mechanical switch on units over 1.5kV)
INHIBIT	TTL Low
Protection	Overload, short circuit, voltage & current limit
Case	Metal box or 3U cassette
Dimensions (Metal Box)	75 x 185 x 40mm (W x D x H)
Dimensions (Cassette)	3U x 8HP (40.64mm)
Supply voltage	24VDC ± 5% (option 11.5 - 15.5VDC)

Options Table

Code	Description
/AI-10	0 -10 VDC analogue interface for control and measurement (Only possibly with 24V input)
/SHV	High voltage output with SHV connector
/3U-SHV	Unit built as a 3U x 8HP cassette with SHV connector
/ECH 124	Unit placed in 4 slot mainframe (see below for more information)
/ECH 128	Unit placed in 8 slot mainframe (see below for more information)
/ECH 12A	Unit placed in 10 slot mainframe (see below for more information)

19” Mainframes

Type	Slots	Power	Dimensions (H x W x D)
ECH 124	4 + 1	120W	½ 19” x 3U x 350mm
ECH 128	8 + 1	300W	19” x 3U x 350mm
ECH 12A	10 + 1	300W	19” x 3U x 350mm