

Series THQ, Models T1DPxx and T2DPxx Benchtop High Voltage Power Supplies

Features

- Single and Dual HV supplies in benchtop case
- Low cost desk top HV PS with 1 or 2 channels
- LED display 3 1/2 digits for voltage or current, switchable
- Equipped with DPS HV modules
- Output voltages 1 kV up to 6 kV at max. 12 Watts
- Very low EMI
- High precision output voltage with very low ripple and noise
- Short circuit and overload protected
- Continuous setting of HV over full range with 10 turn Helipot or by Analog I/O on 9 pin D Sub connector.
- Access to manual polarity switch on DPR module, optionally switchable via TTL signal (up to 3 KV only)
- Freely configurable with one or two DPS modules

Description

These robust desk top high voltage power supplies consist of the THQ housing and one or two high voltage modules of the DPS series which have an unsurpassed price/performance ratio.

The units are available with one or two high voltage modules. Special versions with any combination of DPR modules can be quoted on request.

The output voltage is controlled by a frontpanel potentiometer.

For external control and monitoring an analog I/O is also available (set voltage and monitor voltage 0 to 5 V) on a D Sub 9 connector on the rear panel. Hardware settings for voltage and current limits protect the connected devices.

Our patented resonance mode principle and the all-metal box guarantees lowest EMI.

Output voltage and current can be chosen on a switchable LED-display.

The DPS series includes HV power supply modules with output voltages from 1 kV to 6 kV at max. 12W. The polarity switch in the housing of the DPS module enables the user to set the desired polarity.



THQ Series T1 and T2 HV-Supplies 04112002

The HV output is via a SHV connector.

A wide-range powersupply (110 - 240V AC) provides the operating voltage to the DPS modules

Specifications

Model	DP01	DP02	DP03	DP04	DP05	DP06
Output voltage V_O	1 kV	2 kV	3 kV	4 kV	5 kV	6 kV
Output current I_O	10 mA	6 mA	4 mA	3 mA	2 mA	1,5 mA
Stability ΔV_{in}	$< 1 \times 10^{-5} \times V_{Omax}$					
Stability ΔR_{load}	$< 5 \times 10^{-5} \times V_{Omax}$					
Ripple and noise	typ. 2 mV _{P-P} max. 7 mV _{P-P}					
Temp. coefficient	$< 5 \times 10^{-5}/K$					
Remote control	Control and monitor voltage for V_O and I_O : 0 to 5 V					
INHIBIT	TTL-Level, LOW = active $\Delta V_O = 0$					
Polarity	positive or negative, switchable					
Protection	overload and shortcircuit					
	voltage and current limit with trimmer potentiometer (internal only)					
Case	Metal box					
Dimension (L/W/H)	(300 with SHV / 310 / 90) mm					
Supply voltage	110-240V AC, 50/60 Hz					

Configuration Table and Ordering Information		
Model	Description	Order No
T1DP01	1 x 1 kV	HVIC01
T1DP02	1 x 2 kV	HVIC02
T1DP03	1 x 3 kV	HVIC03
T1DP04	1 x 4 kV	HVIC04
T1DP05	1 x 5 kV	HVIC05
T1DP06	1 x 6 kV	HVIC06
T2DP11	2 x 1 kV	HVIC11
T2DP22	2 x 2 kV	HVIC22
T2DP33	2 x 3 kV	HVIC33
T2DP44	2 x 4 kV	HVIC44
T2DP55	2 x 5 kV	HVIC55
T2DP66	2 x 6 kV	HVIC66