

HIGH VOLTAGE POWER SUPPLY PS4012 FOR POCKELS CELL DRIVERS

FEATURES

- ▶ HV power supply and low voltage 24 V DC power supply in one box
- ▶ Tailored for use in laboratories
- ▶ HV tuning by multi-turn knob
- ▶ 3½ LCD display for voltage monitoring
- ▶ Various versions for different power requirement



Desktop HV power supply PS4012 is designed for powering Pockels cell drivers. It features internal HV power supply as well as low voltage 24 V DC power supply in one case. That approach gives possibility for convenient powering in your laboratory any Pockels cell driver

manufactured by Ekspla. Different pockels cell drivers needs different voltage and power. Line of HV power supplies meets that requirement by choosing best suitable modification from table. HV adjustment is made by multi-turn knob on front panel.

SPECIFICATIONS

Model	PS4012-05	PS4012-40	PS4012-80	PS4012-120	PS4012-150	PS4012-2×60
Maximal high voltage output options	1.8 kV	1.3 kV	1.8 kV	1.8 kV	1.8 kV	±1.4 kV
	2.8 kV	1.8 kV	2.6 kV	2.6 kV	2.6 kV	±2.6 kV
	4.0 kV	2.5 kV	3.1 kV	3.1 kV	3.1 kV	
		3.6 kV	3.6 kV	3.6 kV	3.6 kV	
			4.0 kV			
			4.4 kV			
Maximal output power at maximal output voltage ¹⁾	5 W	40 W	80 W	120 W	150 W	2×60 W
Voltage control limits	40% U_{max} to U_{max}					
24 V DC remaining power for external needs (including PCD)	190 W	150 W	100 W	60 W	20 W	60 W
Mains voltage	90 to 264 V AC, 47–63 Hz					
Dimensions (W×L×H)	260 × 280 × 100 mm					
Weight	2.7 kg					

¹⁾ Maximal power is proportionally lower by tuning to lower HV output.

Output ripple is 0.5% typically at maximal power for all models of HV power supplies. External filter can be used to reduce that value if certain application requires smoother output. All Pockels cell drivers made by Ekspla have integrated ripple filter and usually do not require additional one. Contact Ekspla for suggestions if your specific application needs lower ripple voltage.