



Pegasus Range

Specification Summary

DC High Voltage Power Supplies suitable for laboratory and industrial use. The option of grid and filament outputs make this range of supplies suitable for electron beam systems and x-ray applications. Standard remote control is by analogue signals, should other controls be preferred please discuss this with our technical staff. Available in a standard 19-inch rack. Reduced weight and ease of serviceability is ensured, as the supplies are air insulated below 20kV. The Pegasus range can be adapted to suit capacitor charging applications at low to moderate PRF.

Capacitor Charging Option

The Pegasus range can be adapted to suit capacitor charging applications at low to moderate PRF.

600W



900W



1800W





600W Range

Model No.	Air		Encapsulated	
	P600/15	P600/20	P600/30	P600/40
Output Voltage (kV)	15	20	30	40
Output Current (mA)	40	30	20	15

900W Range

Model No.	Air		Encapsulated	
	P900/15	P900/20	P900/30	P900/40
Output Voltage (kV)	15	20	30	40
Output Current (mA)	60	45	30	23

1800W Range

Model No.	Air				Encapsulated					
	P1800/10	P1800/20	P1800/30	P1800/40	P1800/50	P1800/70	P1800/90	P1800/100	P1800/120	
Output Voltage (kV)	15	20	30	40	50	70	90	100	120	
Output Current (mA)	180	90	60	45	37	24	20	18	15	

Typical Performance Parameters - P1800/40

Output Voltage and Current	Output Voltage: 0 to 40kV Output Current: 0 to 45mA
Line Regulation	Not more than 100ppm of maximum rated output voltage for $\pm 10\%$ input line change
Load Regulation	Not more than 100ppm of maximum rated output voltage for 10% to maximum output current change
Ripple	Dependent on product typically $<0.25\%$
Temperature Coefficient (0 to 50°C)	Typically not more than 100ppm of maximum output per °C
Stability After ½ Hour Settling Period	Not more than 0.04% per hour Not more than 0.05% per 8 hours
Optional Outputs	Isolated grid output available up to 2000V @ 10mA Isolated filament available up to 10V @ 10A

Remote Control

Analogue Control Inputs	0 to 10V = 0 to full voltage - Voltage Programming 0 to 10V = 0 to full current - Current Programming Please discuss RS232 or IEEE 488 requirements
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Mechanical Features

Size	19 inch wide suitable for standard rack mounting. 4U High for above specification. (2U for Type 600W/900W)
Weight	Approx. 11kg (Type 900W)
Cooling	Forced air by means of internal fans
Power requirements	230V AC $\pm 10\%$ Single phase. All models

Mechanical Features

Temperature	Operating:	0°C to 35°C
	Storage:	0°C to 60°C
Relative humidity	Operating:	30% to 80%
	Storage:	<95%