Genvolt
high voltage power supplies

Genvolt design, develop and manufacture
a wide range of high voltage power supply systems

Titan Model

High Speed, High Power Capacitor

Specification Summary

The Titan Power supply is designed for high speed, high power capacitor charging applications at voltages up to 120kV, 45kJ/sec and PRFs as high as 250Hz.

It uses a rugged IGBT based inverter running in resonant mode to achieve high efficiency and excellent ruggedness.

It is designed to run, either from a high DC voltage input (typically 550V), or from a UK/EU 3-phase input.

Input Power

Voltage Source	415Vac three phase mains input

Output Power

Average Power	45000J/sec	
Output Voltage	0 to 60kV	0 to 120kV
Output Current	1.65A maximum	0 to 800mA
Polarity	Positive or negative	
Repetition Rate	250Hz maximum	
Duty Cycle	2 seconds on-load by 2 minutes off-load operation	
Guard Band Protection	200µs fixed after load discharged	
HV Connector	Proprietary connector	
HV Cable	Mating cable and connector supplied with PSU.	
Cable length	3 metres detachable	

Control

Charge Enable	Fibre optic input, active light on
Voltage Program	Adjusted by 10 turn potentiometer with a DVM reading on front panel.
Voltage Monitor	0 to 10V represents 0 to 60kV output through BNC connector
End of Charge	Fibre optic output, active light on

Environment

Operation Temperature	10 to 40°C
Storage Temperature	-10 to 60°C
Humidity	0-90% (non-condensing)
Cooling	Forced air

Mechanical

Height	9U	11U
Depth	560mm (Handles excluded)	780mm (Handles excluded)
Width	19” Rack	605mm
Weight	70kg	100kg

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