



5040 Model

1kJ/sec capacitor charging PSU 10kV-150kV module



Specification Summary

High voltage modules capable of producing 2kW peak output at short intervals. Particularly suitable for capacitor charging applications and designed to operate from a wide range of dc input supply. Mains input can be discussed.

Specification

Output Voltage	Model illustrated is 50kV. Higher voltages if required. Both positive and negative polarities are available.
Output Current	Peak current is 40mA for the example shown.
Duty Cycle	The model above is designed for low duty cycle operation (<10%). Continuous operation with appropriate heatsinking can be provided.
Input Voltage	The unit is designed to operate from a DC source such as a battery pack. For 1kJ/sec 2kW pk operation, a 100-140VDC supply is required. (However, for 500J/sec 1kW pk, operation from 20-48V is available).
Input Current	Less than 25A maximum, depending on input voltage. (50A for low voltage use)

Environment	0 to 50°C ambient. Non-condensing atmosphere.
Weight	Model shown is 13kg
Stability, Ripple, etc	The unit is designed for capacitor charging with a maximum PRF of 100Hz. For CW operation, ripple and stability can be tailored to suit the customer's own specification.
Control Interface	Active low HV ON input. 0-10V HV and current limit programming, OC-TTL constant voltage/ current outputs, 0-10V HV and current monitor outputs.