



Callisto Range

High Power, High Voltage Power Supply



Specification Summary

The Callisto range of power supplies are designed for general purpose applications and for capacitor charging applications. The power supplies are powered from a three phase 380 to 440VAC mains supply. They use a rugged IGBT based inverter running in resonant mode, which achieves high efficiency and excellent ruggedness. They are available with output voltages of 1, 2, 5, 10, 20, 30, 40, 50 or 60kV. They will operate in constant voltage or constant current mode, controllable from 0 to 100% of the maximum specified output. Each model has an output power of 15kW, 30kW peak is available when capacitor charging.

Input Power

Voltage Source	380 to 440VAC three phase mains input
Power Factor	<90%

Output Power

Output Voltage	1kV, 2 kV, 5 kV, 20 kV, 30 kV, 40 kV, 50 kV, 60 kV
Polarity	Positive or negative
Output Adjustable	Adjustable from 0 to rated output voltage Adjustable from 0 to rated output current

Peak Current	Twice rated current when capacitor charging
Line Regulation	0.1%
Load Regulation	0.1%
Output Power	15kW, 30kW peak when capacitor charging
Operating Mode	Constant voltage or constant current
Operating Cycle	Continuous
Efficiency	>92%

Environmental Requirements

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

Dimensions

Height	9U 11U
Depth	560mm (ex handels) 780mm (ex handels)
Width	19" Rack 605mm