



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 |