High Voltage High Power Selector Guide

Modules (up to 60kV)

15W to 300W

MJ Series

- Output Voltages from 0-3kV to 0-30kV
- Single Phase Input, Multiple Options
- Output Power: 15W
- Precision Control & Monitoring
- Multimode Output Control
- Chassis Mount Module

MK Series

- Output Voltages from 0-1kV to 0-60kV
- Single Phase Input, Multiple Options
- Output Power: 75W
- Precision Control & Monitoring
- Multimode Output Control
- Chassis Mount Module

MQ Series

- Output Voltages from 0-1kV to 0-60kV
- Single Phase Input, Multiple Options
- Output Power: 300W
- Precision Control & Monitoring
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count
- Chassis Mount Module

Rack Mount (up to 150kV)

120W to 1.2kW

FJ Series

- Output Voltages from 0-1kV to 0-60kV
- Single Phase Input, Multiple Options
- Output Power: 120W
- 1U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

FR Series

- Output Voltages from 0-1kV to 0-60kV
- Single Phase Input, Multiple Options
- Output Power: 300W
- 1U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

WJ Series

- Output Voltages from 0-70kV to 0-125kV
- Single Phase Input, Multiple Options
- Output Power: 600W
- 3U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

FT Series

- Output Voltages from 0-1kV to 60kV
- Single Phase Input, Multiple Options
- Output Power: 750W
- 1U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count
- Local Analog Control

EY Series

- Output Voltages from 0-1kV to 0-60kV
- Single Phase Input, Multiple Options
- Output Power: 1.2kW
- 2U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

1.5kW to 3kW

FL Series

- Output Voltages from 0-750V to 0-1.5kV
- Single Phase Input, Multiple Options
- Floating Output up to 1.5kV
- Output Power: 1.5kW
- Field Strappable Parallel Operation
- 1U Rack Mount
- RS232/485/USB & Optional Ethernet Control

ET Series

- Output Voltages from 0-1kV to 0-60kV
- Single Phase Input, Multiple Options
- Output Power: 2kW
- 2U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

KT Series

- Output Voltages from 0-70kV to 0-150kV
- Single Phase Input, Multiple Options
- Output Power: 2kW
- 4U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

EV Series

- Output Voltages from 0-750V to 0-1.5kV
- Single Phase Input, Multiple Options
- Floating Output up to 1.5kV
- Output Power: 3kW
- Field Strappable Parallel Operation
- 2U Rack Mount
- RS232/485/USB & Optional Ethernet Control

KR Series

- Output Voltages from 0-2kV to 0-100kV
- Single Phase Input, Multiple Options
- Output Power: 3kW
- 4U Rack Mount
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

5kW to 200kW

LH Series

- Output Voltages from 0-1kV to 0-150kV
- Three Phase Input, Multiple Options
- Output Power: 5kW
- Parallelable to 25kW
- 6U Rack Mount
- Optional RS232/USB & Ethernet Control
- Arc Quench & Arc Count

LQ Series

- Output Voltages from 0-1kV to 0-12kV
- Three Phase Input, Multiple Options
- Output Power: 10kW
- Parallelable to 50kW
- 5U Rack Mount
- Optional RS232/USB & Ethernet Control
- Arc Quench & Arc Count

BQ Series

- Output Voltages from 0-15kV to 0-100kV
- Three Phase Input, Multiple Options
- Output Power: 10kW
- Parallelable to 50kW
- 7U Rack Mount
- Optional RS232/USB & Ethernet Control
- Arc Quench & Arc Count

GX Series

- Output Voltages from 0-1kV to 0-100kV
- Three Phase Input, Multiple Options
- Output Power: 25kW
- Parallelable to 200kW
- 11U Rack Mount
- RS232/USB & Ethernet Control
- Arc Quench & Arc Count

Open Stack (up to 500kV)

2kW to 40kW

OS Series

- Output Voltages from 0-200kV to 0-450kV
- Single Phase Input, Multiple Options
- Output Power: 2kW
- Open Stack with Remote Control Panel
- Optional RS232/USB & Ethernet Control
- Arc Quench & Arc Count

LH Open Stack Series

- Output Voltages from 0-200kV to 0-500kV
- Three Phase Input, Multiple Options
- Output Power: 5kW
- Parallelable to 20kW
- Open Stack with Remote Control Panel
- Optional RS232/USB & Ethernet Control
- Arc Quench & Arc Count

OQ Series

- Output Voltages from 0-200kV to 0-500kV
- Three Phase Input, Multiple Options
- Output Power: 8kW
- Parallelable to 40kW
- Open Stack with Remote Control Panel
- RS232/USB & Optional Ethernet Control
- Arc Quench & Arc Count

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High Voltage Power Supplies

XP Power offers one of the widest ranges of high voltage converters in the industry with output voltages of up to 500kV and powers up to 200kW. The ability to select multiple output voltages, control options and input ranges enables simple integration into many semiconductor, medical and industrial applications.

With over 50 years of building accuracy and repeatability into critical applications, XP Power packs performance and quality into every product. Our direct sales approach and unrivalled global technical support makes designing high voltage into customer applications easy.

Contact us for derivatives and custom high voltage solutions.

Common Product Features

- CE, UKCA and RoHS compliant
- Compact with light form factor
- Air insulated, serviceable assemblies
- Multiple input voltage options available
- Analog and digital control options
- Short circuit, arc, overload & thermal protection
- Low output discharge currents
- Constant current and constant voltage operation
- Low ripple and tight regulation
- 3 year warranty

Applications by Market

Analytical/Medical/Detectors

- Mass Spectrometry
- Radiation/Threat Detection
- X-Ray Diffraction/Fluorescence
- Medical Imaging
- Food & Beverage Inspection
- Radiation Therapy
- Electrophoresis

Industrial

- ASE Burn-in & Testing
- Deposition
- Cable Testing
- Additive Manufacturing
- E-beam Welding
- PCB Inspection
- E-beam Curling
- Mineral Separation

Semiconductor Fabrication and Inspection

- Ion Implantation
- Semiconductor Inspection
- Ion Beam/E-beam Lithography
- Plasma Processes
- Sputtering

Research

- Particle Accelerators
- E-beam/Ion Beam Applications
- Analytical Chemistry
- Bio Sciences
- Particle Physics