

Rapid-X Switch Mode Power Supply

Cost-effective, quality power that's easy to expand and repair

Our Rapid-X Switch Mode Power Supply (SMPS) combines reliability and longevity with greater flexibility, faster delivery, and lower cost. It features a stackable modular design, front-to-back cooling, and a dedicated air-cooling channel.

Compact and scalable, the air-cooled Rapid-X SMPS combines the benefits of modular switchmode design with the repairability of 'monument' style switchmodes, allowing you to focus on applying the product to your process, not changing your process to fit our product. Available in three cabinet heights, it's designed to be the most versatile switch mode power supply you've ever owned.

For maintenance, individual modules can be pulled from the unit and serviced separately, giving you maximum flexibility over the systems that power your process.

Base configuration comes standard with ports for Modbus/TCP and Ethernet/IP as well as 4-20mA or 0-10V analog channels for your own overall system controls.

System Advantages

- Lowest lifetime cost in the industry
- Wide range of standard features and functionality
- Easy & inexpensive upgrade controls
- Multi-unit digital controller compatible



TECHNICAL SPECIFICATIONS

Electrical

Input Voltage & Frequency	208/240V _{AC} , 3PH, 60/50Hz 380/400V _{AC} , 3PH, 60/50Hz 460/480V _{AC} , 3PH, 60/50Hz 550/575V _{AC} , 3PH, 60/50Hz
Output Voltage:	6-50V _{DC} (see matrix below)
Output Amps:	1000-10,000A _{DC} (see matrix below)
Ripple:	≤2% at full output
Regulation Range:	10-100% of rated output
Control Precision:	Voltage/current at +/- 1%
Duty Cycle:	Designed for continuous operation at rated load

Environmental

Cooling:	Air Cooled, Front to Back
Enclosure:	NEMA 1
Max Ambient:	40°C

Utility Program

Power Supply Interface Terminal (PSIT)

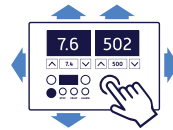
Communications Interface

Ethernet IP	Analog (4-20mA and 0-10V)
Modbus TCP	

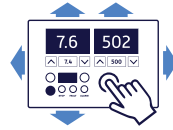
Protection Features

Over-Current	Environmental Alarm (for condensation/humidity or chemical buildup)
Over-Voltage	
Over-Temperature	Ambient Temperature Alarm
Short Circuit	Module Failure Alarm
Electronic Peak Current Detector	

Control Options



Single-Unit Touchscreen Controller:
A programmable touchscreen controller designed to give users maximum control.



Multi-Unit Touchscreen Controller:
Control up to 10 rectifiers from a single intuitive touchscreen interface.



PC-Based Process Controller: Graphical interface PC application designed for process control of 1 to 10 rectifiers.



Touchpad Controller: Flexible, reliable, and user-friendly programmable controller with precision digital controls and intuitive recipe storage.

STANDARD CONFIGURATION OPTIONS*

VOLTS	500	1000	1500	2000	3000	4000	5000	6000	7000	8000	9000	10000
6	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
10	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
12	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
16	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
18	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
20	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
25	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
30	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
35	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
40	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
50	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

* In-stock models available to ship in four to six weeks.

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