

Wall-Mounted SMPS

Efficient, compact and high-quality DC Power

We offer the latest in wall-mounted Switchmode Power Supply (SMPS), featuring a stainless-steel enclosure purpose-built for long-term operation in caustic environments.

Our wall-mounted SMPS rectifier is a flexible, easy-to-use rectifier with <2% AC RMS of full-scale ripple, 1% regulation over the operating range and a power factor of up to >0.99. Its high-efficiency power supply design offers a conversion efficiency that is greater than standard SCR-type rectifiers, with DC output capabilities of up to 900kW. Our stainless-steel units can be placed close to your process, saving power, energy, and installation costs.

This rectifier includes our integrated touchpad controller, offering advanced functions such as ramp, cycle, pulse, amp-hour counter and a program mode, allowing any combination of these functions.



System Advantages

- Cost-effective, efficient power in a compact footprint
- Stainless steel NEMA 4X enclosure suitable for caustic environments
- Low AC RMS ripple content

TECHNICAL SPECIFICATIONS

Electrical

Input Voltage:	480V _{AC} 3PH
Frequency:	60Hz
Output Voltage:	Up to 36V _{DC} (see matrix below)
Output Amps:	Up to 6,000A _{DC} (see matrix below)
Ripple:	≤2% from 10-100% of unit 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:	Direct Water
Enclosure:	NEMA 4X]
Max Ambient:	40°C

Communications Interface

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

Protection Features

Over-Current
Over-Voltage
Over-Temperature
Short Circuit
IGBT Failure (results in unit shutdown)

Standard Configurations Options

VOLTS	AMPS								
6	100	250	500	750	1000	1500	2000	2500	3000
9									
12									
15									
18									
24									
30									
36									

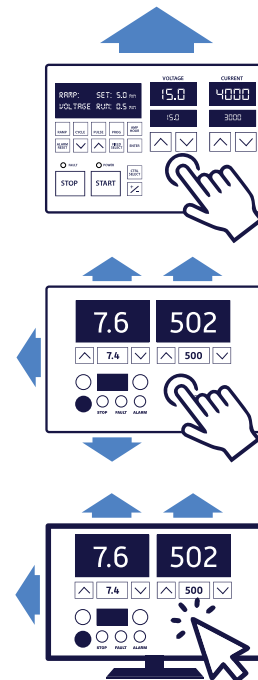


TECHNICAL SPECIFICATIONS

Controls

Standard Controller:	Integrated Touchpad
Control Settings:	Custom Recipe Storage
	Pulse
	Ramp & Cycle Timer
	Set Current
	Set Voltage
	ON / OFF
	Start / Stop
	Stand by / Run
	Amp Hours
Control Outputs	Onscreen Diagnostics
	Current and Voltage Feedback
	On Signal
	Run Signal
	Actual Amp Hours
	Actual Run Time
	Diagnostic Alarms

Control Options



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

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.



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