

### Description

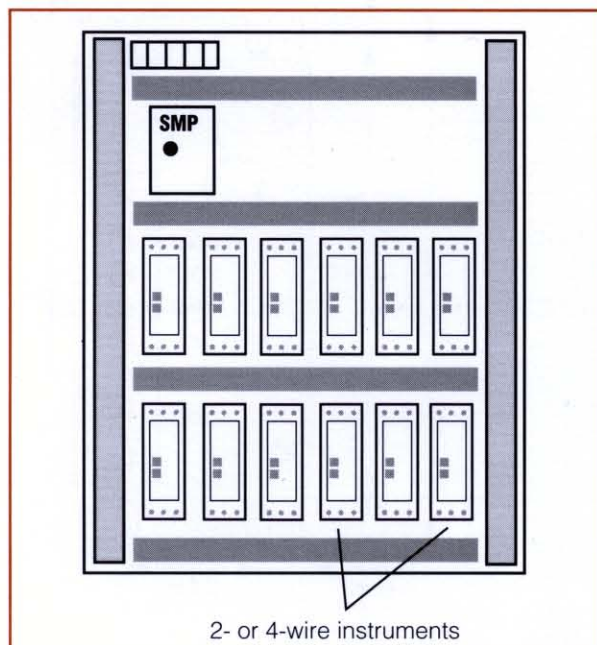
Moore Industries' SMP is a compact, precision regulated, linear DC instrument power supply. The SMP will power large numbers of 2- and 4-wire process instruments. It is the ideal companion to multiple position card racks and rails, or instruments installed in a cabinet or sub-system.

**Safeguard Signals**—Superior line and load regulating capabilities protect transmitters and data modules from line irregularities. The result? Stable signals and no more expensive data loss.

**Built-In Safety**—All SMPs are designed to operate safely over a temperature range from 0°C to +50°C (+32°F to +122°F). All standard models include full-time short circuit and overload protection to prevent electrical damage to the unit. In addition, the unit's all aluminum housing is ventilated for heat dissipation.

**Efficient**—The SMP is a highly reliable power supply requiring minimal user maintenance. Once installed, it will operate maintenance free for extended periods of time.

**Figure 1.** The SMP will provide power to large numbers of units installed in a cabinet or sub-system.



**The compact SMP surface-mount power supply mounts quickly and easily on any flat surface.**

### Features

- **International Power Capability.** Standard inputs are available to handle a wide array of power requirements (100/117/220/230/240Vac).
- **Transmitter Excitation.** Provides excitation to 2-wire transmitters connected to the loop.
- **Optional Over-Voltage Protection.** Protect your loop with the -OVP option. Clamps output to 0V, so all other loop instruments will be safe.
- **Certifications.** The power supply contained within the SMP meets the principle safety requirements of UL, CSA, IEC, VDE, BPO, ECMA, and CEE.
- **Load Regulation.** Prevent fluctuations in your voltage output (0.05% for 50% load change).

### Full Line of Power Supplies

Moore Industries offers a comprehensive line of power supplies including: the DIN-mounted DPS family; the PPS, PPX, and SPS available with angle bracketing and explosion-proof enclosures; and the economical ECS supply.

# SMP

Surface-Mount Power Supply

## Specifications

<b>Performance</b>	<b>Line Regulation:</b> ±0.05% for a 10% input change	<b>Performance (continued)</b>	<b>Short Circuit/Overload Protection:</b> Auto-limiting	<b>Adjustments</b>	<b>Voltage Output:</b> Adjustable to ±5% of output rating	
	<b>Load:</b> ±0.1% for a 50% load change		<b>Temperature Coefficient:</b> ±0.03%/°C (±0.017%/°F), maximum		<b>Ambient Conditions</b>	<b>Temperature Range:</b> 0°C to 50 °C (32°F to 122°F)
	<b>Ripple:</b> 5mV peak-to-peak, maximum		<b>Stability:</b> ±0.3% over 24 hours after warm-up			<b>Weight</b>

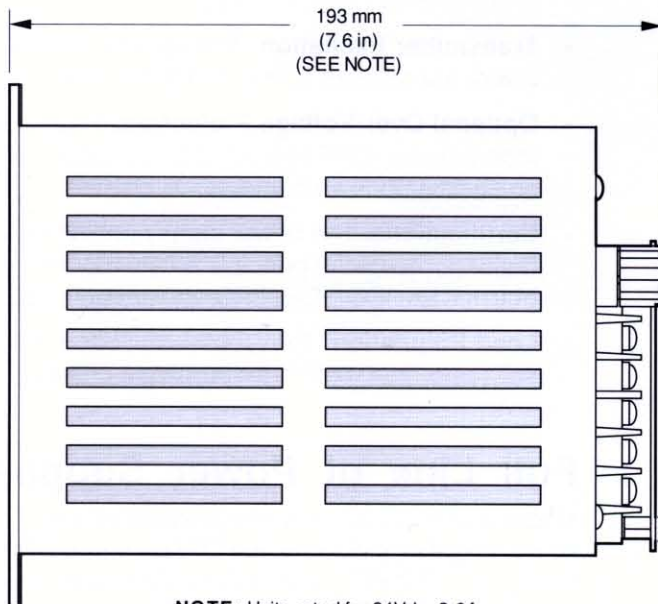
## Ordering Information

Unit	Power Supply Form	Output*	Power	Option	Housing
SMP	SOS Single Output Supply	5 DC-6.0A 12 DC-3.4A 15 DC-3.0A 24 DC-2.4A 24 DC-3.6A	100 AC 117 AC 220 AC 230 AC 240 AC +10%, -13%, 47-440Hz; (Tolerance for 230 is +15%, -10%) Derate output current 10% for 50Hz operation.	-OVP Over voltage protection monitors DC output to ensure it does not exceed a predetermined level. (-OVP included with 5V outputs)	SMP Surface mounted

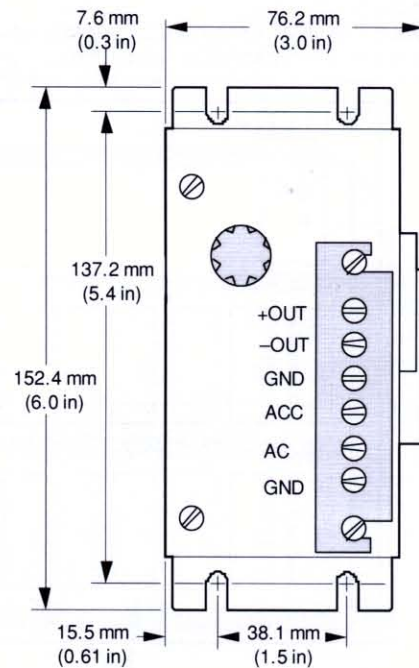
When ordering, specify: Unit / Power Supply Form / Output / Power / Option [Housing]

Model Number Example: SMP / SOS / 24DC-3.6A / 117AC / -OVP [SMP]

\* NOTE: Factory-configured for one choice only.



NOTE: Units rated for 24Vdc, 3.6A outputs are 38.1 mm (1.5 in) longer (deeper).



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