

StepperPower™

The Power Supply for Stepping Motors

Series: STP

- Fully compatible with Applied Motion Products (and other) stepping motor drivers
- Integral motor (35Vdc) and logic (5Vdc ±5%) power
- Space saving compact modules provide mounting studs for motor drivers
- Dual 120/240V switch-selectable input voltage
- Up to 500 watts regulated output
- Power-on LEDs, screw terminal connections
- Ideal for use with A.M.P. step motor drives 1335, 2035, 2035 O, 3535, 3535 O, 3540M or 3540MO.



Agency Approvals:

- UL 60950-1, Second Edition, File # E181899
- CSA C22.2 No. 60950, UL File # E181899
- CE Marked



Description:

The STP series of power supplies provide unregulated DC voltage for motor power and tightly regulated 5Vdc power for logic circuitry. They are especially suitable for Applied Motion's step motor drives model numbers 1335, 2035 O, 3535, 3535 O, 3540M or 3540MO. The PC board and transformer are assembled on L-shaped aluminum chassis with threaded (# 6-32) PEM nuts provided on the side for the mounting drive module, thus making an integral power and driver unit. LED's indicate the power-on status of the motor and logic outputs. Input and motor output are fuse protected to avoid damage due to short circuits. The 5V logic output is electronically protected for overload and short circuit. The input is easily set to 120V or 240V with a slide switch provided on the PC board.

Specification:

Input Power: 120/240VAC ± 10%, 50/60Hz. Switch selectable. Factory set at 240V input.

Inrush Current: Estimated 12A at 120V and 15A at 240V.

Connections: Screw terminals.

Storage Temperature: -55°C to + 85°C.

Operating Temperature: 0-50°C at full rated load, derate linearly 20% up to 70°C maximum.

Humidity: 95% Non-condensing relative humidity maximum.

Cooling Method: Natural convection; allow unrestricted air flow for optimum operation.

Mounting: 4 each 0.213" dia holes, use #8 or #10 screws; clear anodized chassis.

Agency Approvals: UL, CSA approved; CE marked.

Output:

— Motor Power

STP-35AMP2.5: 35Vdc @ 2.5A Full Load (No Load 42Vdc)

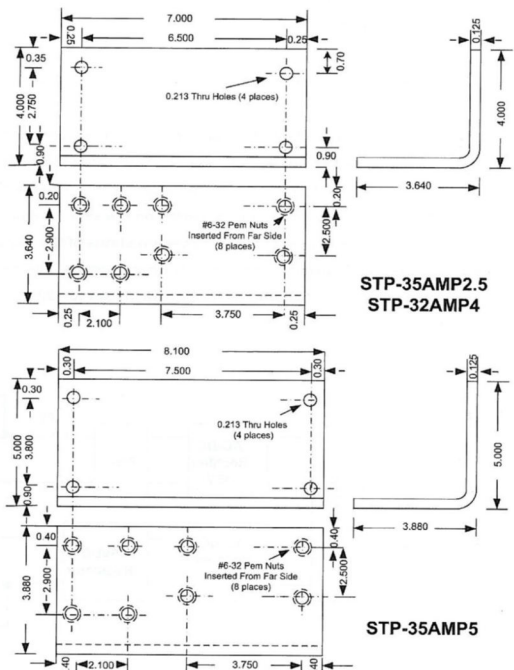
STP-32AMP4: 32Vdc @ 4.0A Full Load (No Load 42Vdc)

STP-35AMP5: 35Vdc @ 5.0A Full Load (No Load 42Vdc)

— Logic Power

5VDC ± 5% @ 500mA, regulated, electronically overload/short circuit protected.

Dimension Drawing: (All dimensions in inches)



The Power Supply for Stepping Motors
Series: STP



VA Rating	Part No	Approximate No Load (VDC)	Approximate Under Load (VDC)	Logic Power
128	STP-32XXX4	42V	32V @ 4A	5V ± 5% @ 500mA
88	STP-35XXX2.5	42V	35V @ 2.5A	5V ± 5% @ 500mA
175	STP-35XXX5	42V	35V @ 5A	5V ± 5% @ 500mA
240	STP-48XXX5	58V	48V @ 5A	5V ± 5% @ 500mA
480	STP-48XXX10	58V	48V @ 10A	5V ± 5% @ 500mA
350	STP-70XXX5	87V	70V @ 5A	5V ± 5% @ 500mA