

Todd MAX-354-12241

## Standard MAX Series Multiple Output Power Supply



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**In Stock**

**Used and in Excellent Condition**

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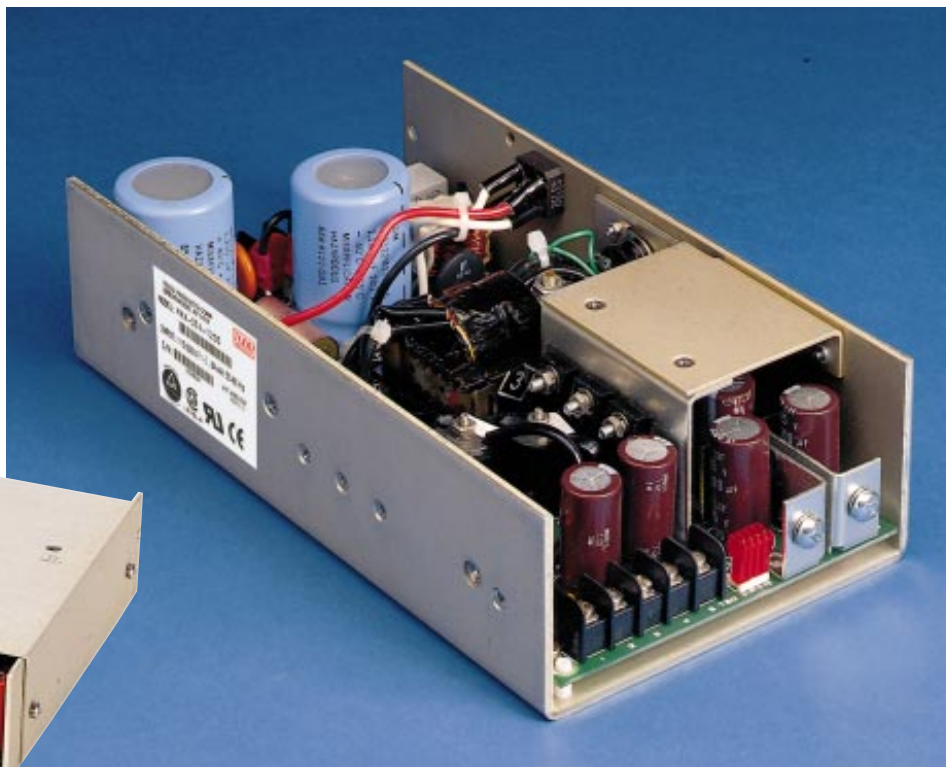
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### MAX-250 MAX-350 MTC-250 MTC-350 MTX-250 MSC-350

#### Featuring:

- Over 3 watt/in<sup>3</sup> power density
- 80% overall efficiency
- Meets international safety agency requirements
- All outputs regulated  $\pm 1\%$
- High peak currents for motor starting
- System air or self-cooling options
- AC automatic line selection option
- Available in 24, 28, or 48 Vdc input



Option C



Option V

The appropriate MTC, MAX, or MTX in your telecom product gives you the outputs you need for ISDN, LAN, and T1 applications and standard voice and data networks. High-current auxiliary outputs provide regulation characteristics for proper operation of line drivers, network interfaces and RS232-type outputs. Or, use a 9-inch MSC in your computer-based product for needed output regulation, power for 50 Amps of logic and four hard disk drives.

And, you can increase power by 40% as you add peripherals – without redesigning for a larger power supply – by upgrading from the MDT 160/220 series.

Check the specifications of these low-profile, 9-inch switchers that give you more design freedom.

#### STANDARD MAX SERIES

| MODEL        | PWR | OUTPUT #1 | OUTPUT #2       | OUTPUT #3 | OUTPUT #4   |
|--------------|-----|-----------|-----------------|-----------|-------------|
| MAX-254-1205 | 250 | +5V @ 35A | +12V @ 8/12A pk | -12V @ 4A | -5.2V @ 2A  |
| MAX-353-0512 | 350 | +5V @ 50A | +12V @ 8/12A pk | -12V @ 4A |             |
| MAX-354-1205 | 350 | +5V @ 50A | +12V @ 8/12A pk | -12V @ 4A | -5.2V @ 2A  |
| MAX-354-1212 | 350 | +5V @ 50A | +12V @ 8/12A pk | -12V @ 4A | 12V @ 2A    |
| MAX-354-1224 | 350 | +5V @ 50A | +12V @ 8/12A pk | -12V @ 4A | +24V @ 1.5A |

#### TELECOM MTC SERIES

| MODEL        | PWR | OUTPUT #1 | OUTPUT #2 | OUTPUT #3 |
|--------------|-----|-----------|-----------|-----------|
| MTC-253-0515 | 250 | +5V @ 30A | +15V @ 4A | -15V @ 4A |
| MTC-353-0512 | 350 | +5V @ 45A | +12V @ 6A | -12V @ 6A |
| MTC-353-0515 | 350 | +5V @ 45A | +15V @ 5A | -15V @ 5A |

#### MASS STORAGE MSC SERIES

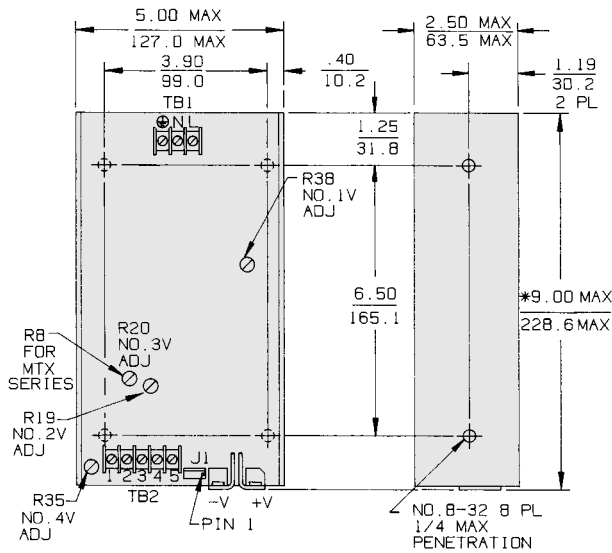
| MODEL        | PWR | OUTPUT #1 | OUTPUT #2        | OUTPUT #3 |
|--------------|-----|-----------|------------------|-----------|
| MSC-353-0512 | 350 | +5V @ 30A | +12V @ 20/2 A pk | -12V @ 4A |

#### SMALL COMPUTER MTX SERIES

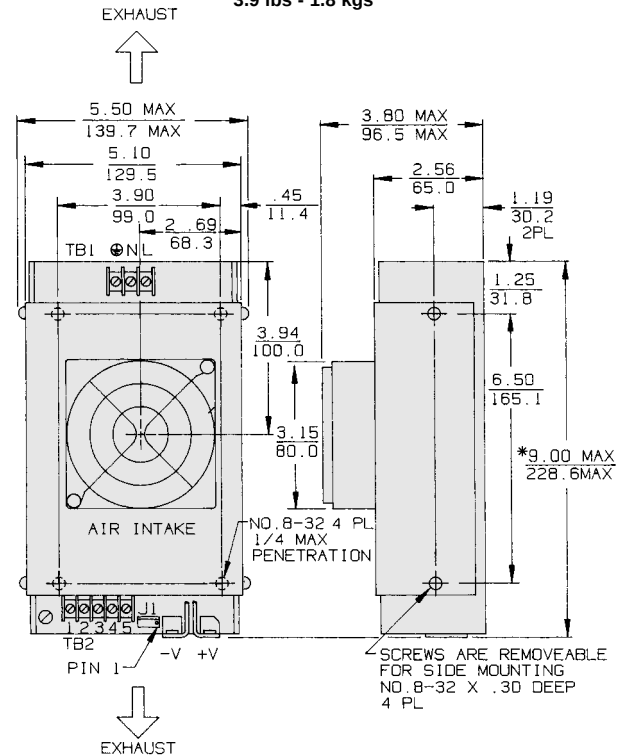
| MODEL        | PWR | OUTPUT #1 | OUTPUT #2       | OUTPUT #3 | OUTPUT #4  |
|--------------|-----|-----------|-----------------|-----------|------------|
| MTX-253-0512 | 250 | +5V @ 35A | +12V @ 8/12A pk | -12V @ 2A |            |
| MTX-254-1205 | 250 | +5V @ 35A | +12V @ 8/12A pk | -12V @ 2A | +5V @ 1.5A |
| MTX-254-1212 | 250 | +5V @ 35A | +12V @ 8/12A pk | -12V @ 2A | +12V @ 2A  |

250, 350 WATTS  
9" x 5" x 2.5"  
MAX, MSC, MTC, MTX

### MAX, MSC, MTC, MTX 3.4 lbs - 1.5 kgs



### MAX, MSC, MTC, MTX with Option F 3.9 lbs - 1.8 kgs



## SPECIFICATIONS: ALL MODELS

### INPUT

**AC Input:** 90-132 Vac/180-264 Vac, 47 to 63 Hz. User selectable. See option "A" for automatic line selection. Internally fused for 10 A.

**Inrush:** Cold start AC current is less than 10 A at 115 Vac and 18 A at 230 Vac. For MTX models, 10 A at 115 Vac and 20 A at 230 Vac. Limited by thermistor.

**Holdup Time:** 16 ms minimum after removal of power, at nominal line, full load.

**Efficiency:** 80% typical.

**Brownout Protection:** Holds regulation to 85 Vac or 170 Vac.

### OUTPUT

**Adjustability:** User adjustable  $\pm 5\%$  minimum.

**Line & Load Reg:**  $\pm 1\%$  over AC input range and 0 to 100% load change. Output #1 requires minimum load of 10%.

**Ripple & Noise:** Less than 1% p-p or 100 mV, whichever is greater.

**Remote Sense (Output #1):** Compensates for 250 mV total line drop. Open sense lead protection.

**Temperature Coefficient:** 0.02% per degree C.

**Stability:** 0.1% over 8 hours after 30 minutes warm-up.

**Transient Response (Output #1):** Output voltage returns to within 1% in less than 500  $\mu$ s for a 50% load change. Peak transient does not exceed 5%.

**Overload Protection:** All outputs are protected against overload and short circuit. Automatic recovery upon removal of fault.

**Overvoltage Protection (Output #1):** Protects load against power supply induced overvoltage. Trip point is factory set so that output voltage cannot exceed 136% of nominal.

**Remote Inhibit:** Contact closure to the negative sense line drops output power to nominal zero.

**Reverse Voltage:** Protected against reverse voltage up to supply current rating.

### ENVIRONMENTAL

**Thermal Protection:** Shuts down power supply if overheated. Automatic recovery.

**Temperature Range:** 0° to 50°C at full ratings. Derate to half power at 70°C.

**Safety Agencies:** Most models are approved to UL1950; CSA 22.2 #234; IEC 950 and TÜV EN60950, Class 1 SELV, CE 72/23/EEC/93/68EEC (low voltage directive).

**Conducted RFI:** Meets FCC Part 15, Subpart J, Class A; EN55022 Class B; CISPR 22 Class B.

**Cooling:** 30 CFM required to achieve full ratings.

**Output Isolation:** Isolated from ground 50 Vdc.

## OPTIONS:

**Option "A", AC Auto-Range:** Automatically selects proper AC line voltage range to enable power operation at either 115 or 230 Vac without user intervention.

**Option "C", Fan/Cover:** Limits contact with power supply interior.

**Option "F", Fan/Cover Assembly:** Cover with integral ball-bearing fan provides proper cooling to achieve full ratings at 50°C ambient temperature.

**Option "G", DC Power Good:** Provides a TTL "1" open collector when output #1 is above 4.6 V nominal. Not available if option "P" is selected.

**Option "P", AC Power Fail:** Provides TTL "0" 5 ms before output voltage goes out of regulation band upon loss of AC power. VMEbus compatible, provides 48 mA sink current capability. Not available if option "G" is selected.

**Option "V", Fan/Cover Assembly:** Low profile, end venting cover with integral ball-bearing fan.

Consult factory for other available options.

## AC INPUT

| FUNCTION     | 115 VAC       | 230 VAC       | CONNECTOR          |
|--------------|---------------|---------------|--------------------|
| Input Select | Short         | Open          | 0.187 Male Fastons |
| TB1- (L)     | Line          | Line 1        | Barrier strip      |
| TB1- (N)     | Neutral       | Line 2        | #6-32 screws       |
| TB1- (G)     | Safety Ground | Safety Ground | 3/8" centers       |

## DC OUTPUT

| FUNCTION                    | MAX, MTC, MTX                             | MSC                             | CONNECTOR                    |
|-----------------------------|-------------------------------------------|---------------------------------|------------------------------|
| Output #1                   | Terminal marked +V<br>Terminal marked COM |                                 | Bus bars<br>#10/32 screws    |
| Output #2                   | TB2-3 (+)<br>TB2-4 Rtn (Common)           | TB2-2 (+)<br>TB2-1 Rtn (Common) | Barrier strip                |
| Output #3                   | TB2-5 (-)<br>TB2-4 Rtn (Common)           | TB2-3 (-)<br>TB2-1 Rtn (Common) | #6-32 screws<br>3/8" centers |
| Output #4*<br>(If provided) | TB2-1 (+)<br>TB2-2 (-)                    |                                 |                              |

\*Rtn connected to common only if output is polarized in product selection chart

## STATUS AND CONTROL

| FUNCTION                           | LOCATION                | NOTES                                  | CONNECTOR                                         |
|------------------------------------|-------------------------|----------------------------------------|---------------------------------------------------|
| Remote Sense                       | J1-1(+ S)<br>J1-2 (- S) | Output #1 Sense<br>Output #1 Sense Rtn | AMP MTA type<br>#640456-4 pin<br>header (locking) |
| AC Power Fail or<br>DC Power Good* | J1-3 (PF)               | Reference to J1-2                      |                                                   |
| Inhibit                            | J1-4 (IH)               | Short to J1-2                          |                                                   |

\*Optional function

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