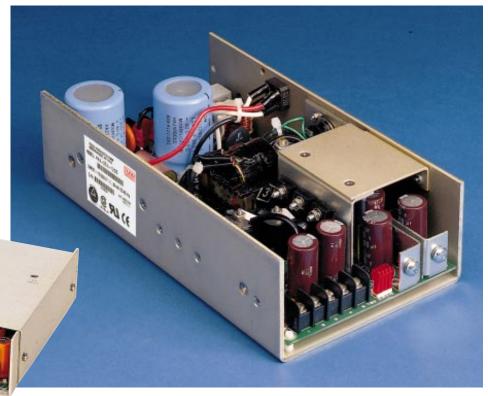
# **ECONDOR**

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

### Featuring:

- Over 3 watt/in³ power density
- 80% overall efficiency
- Meets international safety agency requirements
- All outputs regulated ± 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







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

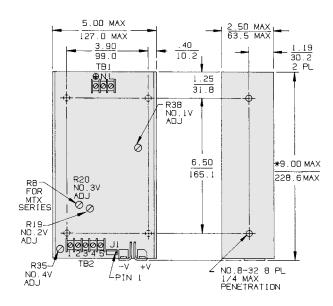


The appropriate MTC, MAX, or MTX in your telecom product gives you the outputs you need for ISDN, LAN, and T1 applications and standard voice and data networks. High-current auxiliary outputs provide regulation characteristics for proper operation of line drivers, network interfaces and RS232-type outputs. 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 lowprofile, 9-inch switchers that give you more design freedom.

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



Dimensions: Inches Millimeters \*9.05 229.87 for MTX

### **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.

#### OUTPU<sup>-</sup>

Adjustability: User adjustable ±5% minimum.

Line & Load Reg: ±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 μs 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

**Cooling:** 30 CFM required to achieve full ratings **Output Isolation:** Isolated from ground 50 Vdc.

## **OPTIONS:**

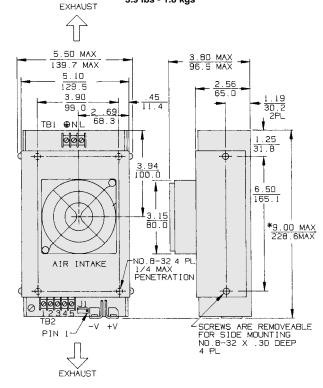
Option "A", AC Auto-Range: Automatically selects proper AC line voltage range to enable power operation at either 115 or 230 Vac without user intervention.

Option "C", 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.

## MAX, MSC, MTC, MTX with Option F



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- (⊕)	Safety Ground	Safety Ground	3/8" centers

#### **DC OUTPUT**

20 00 0.			
FUNCTION	MAX, MTC, MTX	MSC	CONNECTOR
Output #1			Bus bars #10/32 screws
Output #2	TB2-3 (+)	TB2-2 (+)	
	TB2-4 Rtn (Common)	TB2-1 Rtn (Common)	Barrier strip
Output #3	TB2-5 (-)	TB2-3(-)	#6-32 screws
	TB2-4 Rtn (Common)	TB2-1 Rtn (Common)	3/8" centers
Output #4*	TB2-1 (+)		
(If provided)	TB2-2 (-)		

<sup>\*</sup>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)	Output #1 Sense	AMP MTA type #640456-4 pin
		J1-2 (- S)	Output #1 Sense Rtn	
	AC Power Fail or	J1-3 (PF)	Reference to J1-2	header (locking)
	DC Power Good*			
	Inhibit	J1-4 (IH)	Short to J1-2	

<sup>\*</sup>Optional function