

# TX1000

## 1000 Watt, Single Output, AC/DC Power Supply



- Harmonic Correction to EN61000-3-2
- Wide Range Input of 90-264VAC
- FCC / CISPR 22 Class A EMI Filtering
- Typical Power Factor of 0.99
- Active Current Sharing
- Self-Cooled 5" x 4.88" x 12" Chassis
- 70-80% Efficiency
- Optional ORing Diode
- UL/CUL 1950, VDE EN60950
- CE Marked
- EN61000-4 Immunity



**OBSOLETE PRODUCT**  
Contact Factory for Replacement Model

The TX1000 Series single output 1kW power supplies are fully featured for usage worldwide. With active Power Factor Correction (PFC) to EN61000-3-2, wide-range input of 90-264VAC, EMI compliance to FCC and CISPR 22, "CE" Mark, and immunity to EN61000-4, the TX1000 series is ready for global deployment. Standard features include remote sense compensation, output voltage

adjustment, active current sharing, remote inhibit, power fail warning, DC OK signal, and thermal shutdown. A complete array of output voltages from 2.5 to 48VDC is available. The self-cooled 5" x 4.88" x 12" chassis provides industry-standard modularity that permits optimum flexibility in installation. An optional ORing diode is offered on all models greater than 5VDC models.

### PRODUCT SELECTION CHART

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
TX10005AASLPLNH	5.0	200A
TX10005BASLPLNH <sup>(1)</sup>	12.0	84A
TX10005CASLPLNH <sup>(1)</sup>	15.0	67A
TX10005DASLPLNH <sup>(1)</sup>	18.0	56A
TX10005EASLPLNH <sup>(1)</sup>	24.0	42A
TX10005FASLPLNH <sup>(1)</sup>	28.0	36A
TX10005GASLPLNH <sup>(1)</sup>	36.0	28A
TX10005HASLPLNH <sup>(1)</sup>	48.0	21A
TX10005JASLPLNH <sup>(1)</sup>	20.0	50A
TXD10005KASLPLNH <sup>(1)</sup>	3.3	182A
TXD10005LASLPLNH <sup>(1)</sup>	2.5	200A

**Notes:** (1) Model specified without optional ORing diode; to specify the diode option, replace the letter "N" with the letter "D", no O-Ring diode on 5V models.

## INPUT SPECIFICATIONS

PARAMETERS	CONDITIONS	MIN	TYP	MAX	UNITS
Operating Range	47-63Hz	90		264	VAC
Input Current	Nominal line, full load			12	A
Inrush Current	120VAC, 25°C, cold start 240VAC, 25°C, cold start			80 160	Apk Apk
Efficiency	Nominal line, full load	70	75	80	%
Holdup	Full load	20			msec
Power Factor <sup>(1)</sup>	Full load		0.99		

Notes: (1) Harmonic currents meet EN61000-3-2

## OUTPUT SPECIFICATIONS

PARAMETERS	CONDITIONS	MIN	TYP	MAX	UNITS
Output Power	All environmental and line conditions			1000	Watts
Voltage Adjustment Range	Relative to nominal output voltage				%
Output Regulation	Line and load (each)			±0.2	%
Minimum Load		0			Amps
PARD	Measured at output terminals, 20MHz			1	% pk-pk
Temperature Coefficient	0° to 50°C				%/°C

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## ENVIRONMENTAL SPECIFICATIONS

PARAMETERS	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient Temperature (Operating)	Output is rated linearly to 50% of rated capacity between 50°C and 70°C	0		+70	°C
Ambient Temperature (Non-operating)		-50		+85	°C
Altitude (Operating)		-200		+10,000	Feet
Altitude (Non-operating)		-200		+50,000	Feet
Shock	Per MIL-STD-810D, Method 516.3, Procedure II, in each axis, including NTSA drop test				
Vibration	Per MIL-STD-810D, Method 514.3, Procedure II, in each axis, including NTSA drop test				
Cooling	The TX1000 is provided with an internal cooling fan.				

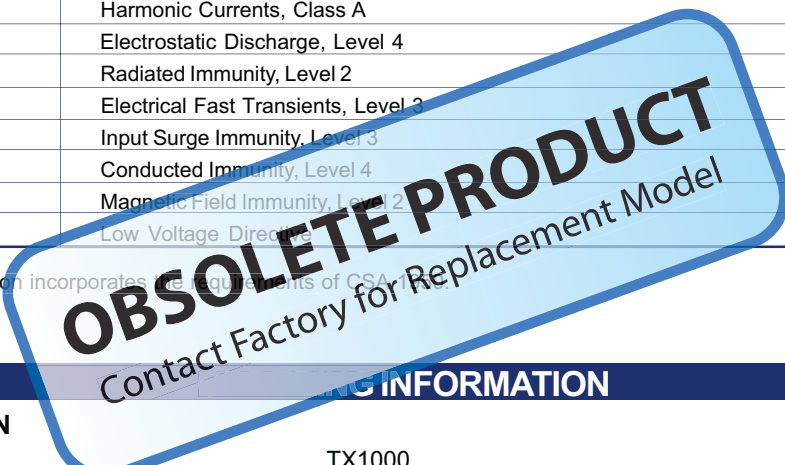
## PRODUCT FEATURES

FEATURES	CHARACTERISTIC
Remote Sense	500mV compensation
Active Current Sharing	Single Wire; 5% tolerance if outputs are over 25% of rated load
ORing Diode	Optional on all models (not available on 5V model)
OVP	125% of nominal ( $\pm 7.5\%$ )
Thermal Shutdown	Automatic Restart
DC OK Signal	Logic "1" when output is within $\pm 3\%$ of nominal
Power Fail Warning Signal	Transition to Logic "0" at least 5msec before loss of output regulation
Remote Inhibit	Logic "0" applied will inhibit output (referenced to -Sense terminal)

## PRODUCT COMPLIANCES

APPROVAL	CHARACTERISTIC
UL and cUL	UL1950, 3 <sup>rd</sup> Edition <sup>(1)</sup>
VDE	EN60950
FCC	Class A requirements for conducted emissions
CISPR 22	Class A requirements for conducted emissions
EN61000-3-2	Harmonic Currents, Class A
EN61000-4-2	Electrostatic Discharge, Level 4
EN61000-4-3	Radiated Immunity, Level 2
EN61000-4-4	Electrical Fast Transients, Level 3
EN61000-4-5	Input Surge Immunity, Level 3
EN61000-4-6	Conducted Immunity, Level 4
EN61000-4-8	Magnetic Field Immunity, Level 2
CE Mark	Low Voltage Directive

**Notes:** (1) UL1950, 3<sup>rd</sup> Edition incorporates the requirements of CSA-1010



## MODEL DESIGNATION

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#### BASE MODEL

TX1000

Chassis: "5" = 5" x 4.88" x 12"; "M" = modified \_\_\_\_\_

Output Voltage: See Chart below \_\_\_\_\_

Input Filter: "A" designates Class A EMI filter \_\_\_\_\_

Fan: "S" designates Standard Fan \_\_\_\_\_

Remote Inhibit: "L" designates that Logic "0" applied inhibits output \_\_\_\_\_

"P" designates Active Input Power Factor Correction with widerange input voltage of 90-264 VAC \_\_\_\_\_

Power Fail Warning: "L" designates transition to Logic "0" upon loss of AC \_\_\_\_\_

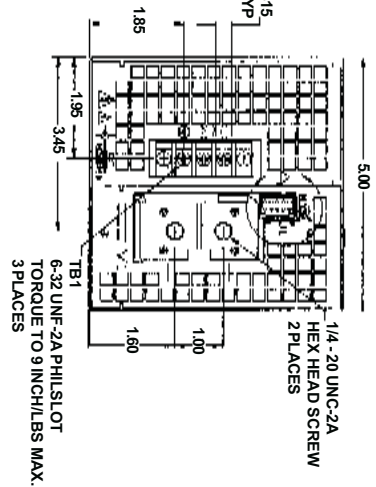
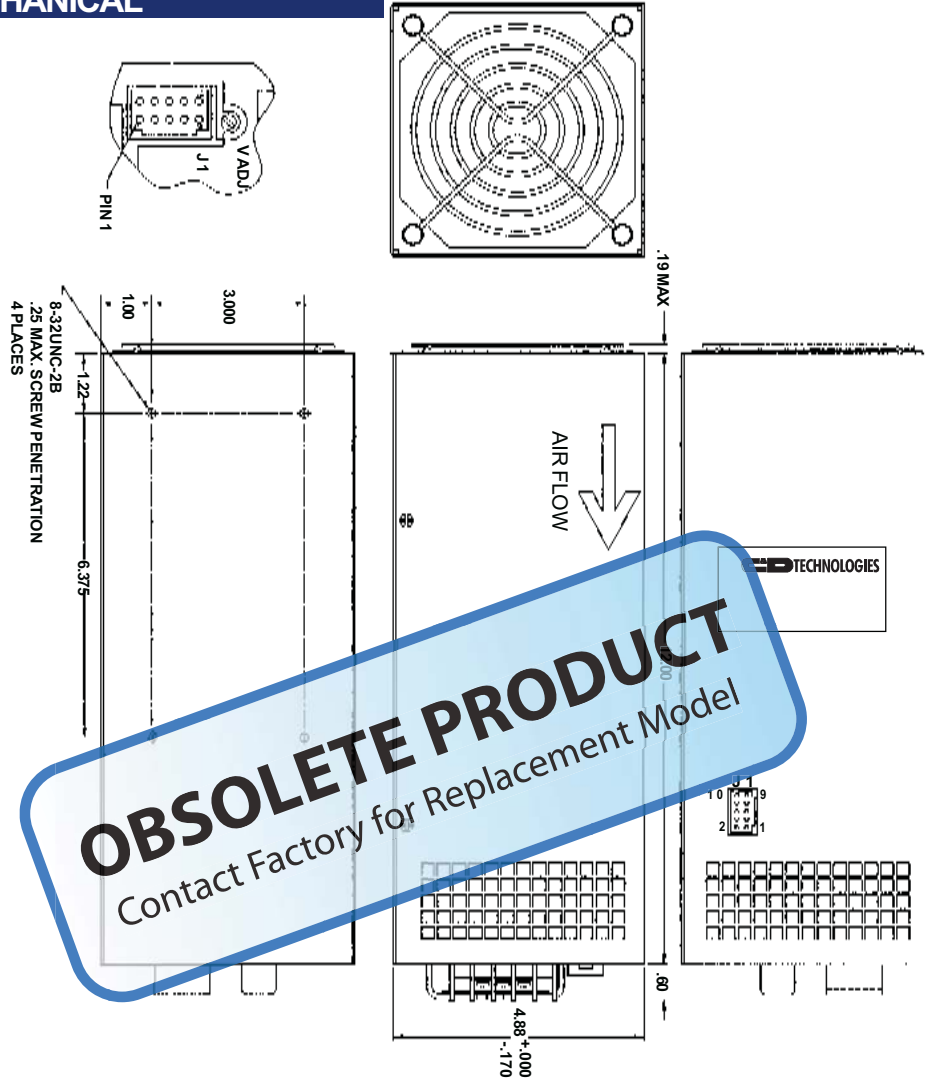
Output ORing diode: "N" = None; "D" = Diode Option \_\_\_\_\_

DC OK: "H" designates that Logic "1" indicates a DC OK condition \_\_\_\_\_

#### OUTPUT VOLTAGES

A = 5V	G = 36V
B = 12V	H = 48V
C = 15V	J = 20V
D = 18V	K = 3.3V
E = 24V	L = 2.5V
F = 28V	

# MECHANICAL



J1 CONNECTOR	
AMP NO. 87579-2 OR EQUIVALENT	
PIN NO.	FUNCTION
1	REMOTE INHIBIT
2	DC OK
3	N/C
4	N/C
5	POWER FAIL
6	CURRENT SHARE
7	+ SENSE
8	N/C
9	- SENSE
10	N/C

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