

Product Data Sheet

2000 WATT AC/DC Power Supply

TXD2000



DESCRIPTION

The TXD2000 Series is a flexible, modular, 2000 Watt design offering two high current outputs in a 5 x 8 x 12 package. Output voltages from 2.5 VDC through 48 VDC are standard. With Power Factor Correction, EMI compliance to FCC and CISPR22, CE Mark and immunity to EN61000-4, the TXD2000 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. An optional ORing diode is offered on models with an output voltage of 12 VDC or above.

FEATURES

- Wide Range Input of 90-264VAC, 1000 Watts,
 High Range Input of 180-264VAC, 2000 Watts,
- Harmonic Correction to EN61000-3-2
- Active Current Sharing
- No Load Operation
- Optional ORing Diode
- 70-80% Efficiencies
- FCC / CISPR 22 Class A EMI Filtering
- Self-Cooled 5"x 8"x 12" Chassis
- EN61000-4 Immunity



Internet: http://www.cdpowerelectronics.com

Power Electronics Division, United States 3400 E Britannia Drive, Tucson, Arizona 85706 Phone: 800.547.2537 Fax: 520.770.9369 Power Electronics Division, Europe C&D Technologies (Power Electronics) Ltd. 132 Shannon Industrial Estate, Shannon, Co. Clare, Ireland Tel: +353.61.474.133 Fax:+353.61.474.141

TXD2000 2/2000 REV A Page 1

Input Specifications

Parameters	Conditions	Min	Тур	Max	Units
Operating Range					
1000W	47-63Hz	90		264	Vac
2000W	47-63Hz	180		264	Vac
Inrush Current	120V _{AC} , 25°C, cold start			80	Apk
	240Vac, 25°C, cold start			160	Apk
Efficiency	Nominal line, full load	70	75	80	%
Holdup	Full load	20			msec
Power Factor (1)	Full load		0.99		

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

Output Voltage Modules and Maximum Rated Load

Output Voltage Code	Output Voltage Voltage	Output Current (Maximum Continuous)	Output Power (Maximum Continuous)
Α	5.0	200A	1000W
В	12.0	83A	1000W
С	15.0	67A	1000W
D	18.0	55A	1000W
E	24.0	42A	1000W
F	28.0	36A	1000W
G	36.0	28A	1000W
Н	48.0	21A	1000W
J	20.0	40A	800W
K	3.3	182A	600W
L	2.5	200A	500W

Output Specifications

Parameter	Conditions	Min	Тур	Max	Units
Output Power	All environmental and line conditions				
90-264VAC				1000	Watts
180-264VAC	Limited by output module selection			2000	Watts
Voltage Adjustment Range	Relative to nominal output voltage		<u>+</u> 5		%
Output Regulation	Line, load or cross			<u>+</u> 0.2	%
Minimum Load		0			Amps
PARD	Measured at output terminals, 20MHz			50 mv or 1%	pk-pk
Temperature Coefficient	0° to 50°C		±0.2		%/°C

Environmental Specifications

Parameter	Conditions	Min	Тур	Max	Units
Ambient Temperature (Operating)	Output de-rated linearly to 50% of rated capacity between 50°C and 70°C	0		+70	°C
Ambient Temperature	Non-operating	-50		+85	٥C
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 TXD2000 is provided with internal cooling fans.				

Page 2 TXD2000 2/2000 REV A

Product Features

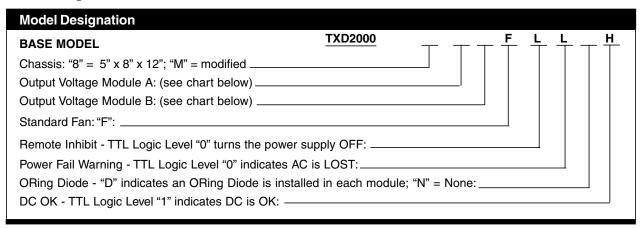
Features	Characteristic
Remote Sense	500mV compensation
Active Current Sharing	Single Wire; 5% current share if outputs are over 25% of rated load
ORing Diode	Optional (not available on modules below 12V)
OVP	125% of nominal (±7.5%)
Thermal Shutdown	Automatic Restart
DC OK Signal	Logic "1" when output is within ±3% of nominal
Power Fail Warning	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 rd Edition ⁽¹⁾
VDE	EN60950
FCC	Class A requirements for conducted emissions
CISPR 22	Class A requirements for conducted emissions
EN61000-4-2	Electrostatic Discharge, Level 4
EN61000-4-4	Electrical Fast Transients, Level 3
EN61000-4-5	Input Surge Immunity, Level 3
EN61000-3-2	Harmonic Currents, Class A
CE Mark	Low Voltage Directive

Notes: (1) UL1950, 3rd Edition incorporates the requirements of CSA 950.

Ordering Information



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				

The information provided herein is believed to be reliable; however, C&D TECHNOLOGIES assumes no responsibility for inaccuracies or omissions. C&D TECHNOLOGIES assumes no responsibility for the use of this information, and all use of such information shall be entirely at the user's own risk. Prices and specifications are subject to change without notice. No patent rights or licenses to any of the circuits described herein are implied or granted to any third party. C&D TECHNOLOGIES does not authorize or warrant any C&D TECHNOLOGIES product for use in life support devices/systems or in aircraft control applications.

TXD2000 2/2000 REV A Page 3

