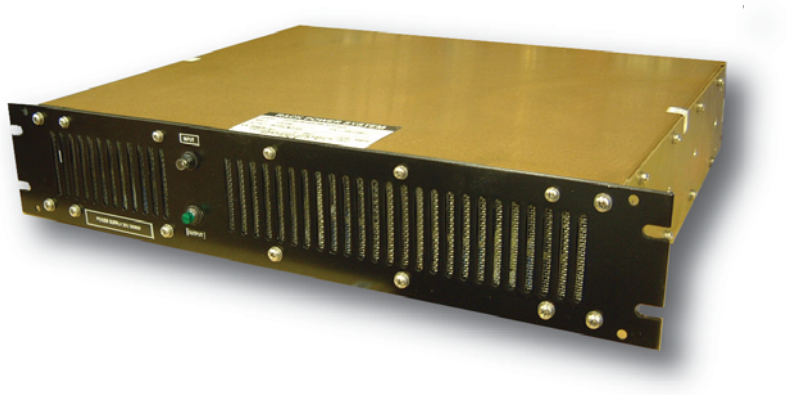
APPLIED POWER CONVERSION
Division of
TECHNOLOGY DYNAMICS INC.

XTCPDC-RK SERIES
SINGLE OUTPUT
DC TO DC CONVERTER
400-1.000 Watts - RACK MOUNTED
RUGGED HIGH POWER

APPLICATIONS

Technology Dynamics Inc. designs, develops and manufacturers DC-DC Converters and is widely acknoledged as an industry leader in distributed power application and prodeces a wide range of DC-DC Converters. These DC-DC Converters are renowned for their outstanding performance, high reliability and cost effectiveness. Technology Dynamics Inc. DC-DC Converters are used extensively by OEMs and system integrators in a wide range of applications for the Commercial, Rugged Industrial and Military markets.



STANDARD FEATURES

- Compact, Light Weight, Rack Mount
- Tightly Regulated Output
- OV/OL/OT Protected
- ±5% Output Adjustment
- LED Indicator
- Terminal Block Input/Output
- MTBF > 150,000 Hours
- Internal Fan
- "Rugged" Construction

AVAILABLE OPTIONS

- Redundant Operation (N+1)
- Panel Mount
- Ruggedized For Severe Environment
- Hot Pluggable in a 3.5" High Rack
- Low Voltage Battery Disconnect. (LVBD) for Battery Back-Up Opperation
- Conformal Coating (Rich Humidity)

SAFETY AND EMISSIONS

- Meets FFC DOC. 20780 LEV. A
- Meets VDE 0871/6.78 LEV. A
- Designed to meet UL1950, CSA 22.2

SPECIFICATIONS

INPUT SPECIFICATIONS

Input: 125 VDC
Efficiency: 85% Typical
Inrush Current: 40A MAX ½ Cycle

OUTPUT SPECIFICATIONS

Voltage Adjustment: ± 5%
Line Regulation: ± .3%
Load Regulation: ± 2%
Hold Up Time: 20 mS Min.
Set Point Accuracy: ±1%(except 5V=±2%) (maximum)
Protections: Overcurrent, Overlvoltage, Overtemperature

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -20°C to +50°C. Derate to 50% at +70°C
Storage Temperature: -40°C to +85°C max Relative Humidity
Cooling: External Ball Bearing DC Fan
Humidity: 20-90% RH Non Condensing
Vibration: 10-500Hz, 2G 10min/1Cycle for 60 min (3 axes)
Shock: 20G Peak Acceleration
Weight: ~ 20 Lb. (1 module)
Size: 19" x 3.5" x 14"

Design Excellence since 1976!

AS 9100
BUREAU VERITAS
Certification
Certificate No: US008267-1

MODEL SELECTION

400 WATTS			600 WATTS		1000 WATTS	
Model	Maximum Current (ADC)	Nominal Voltage (VDC)	Model	Maximum Current (ADC)	Model	Maximum Current (ADC)
XTCPDC-RK-12-34	12V	34A	XTCPDC-RK-12-50	50A	Consult Factory	
XTCPDC-RK-24-17	24V	17A	XTCPDC-RK-24-25	25A	XTCPDC-RK-24-41	41A
XTCPDC-RK-48-8	48V	8A	XTCPDC-RK-48-12	12A	XTCPDC-RK-48-20	20A

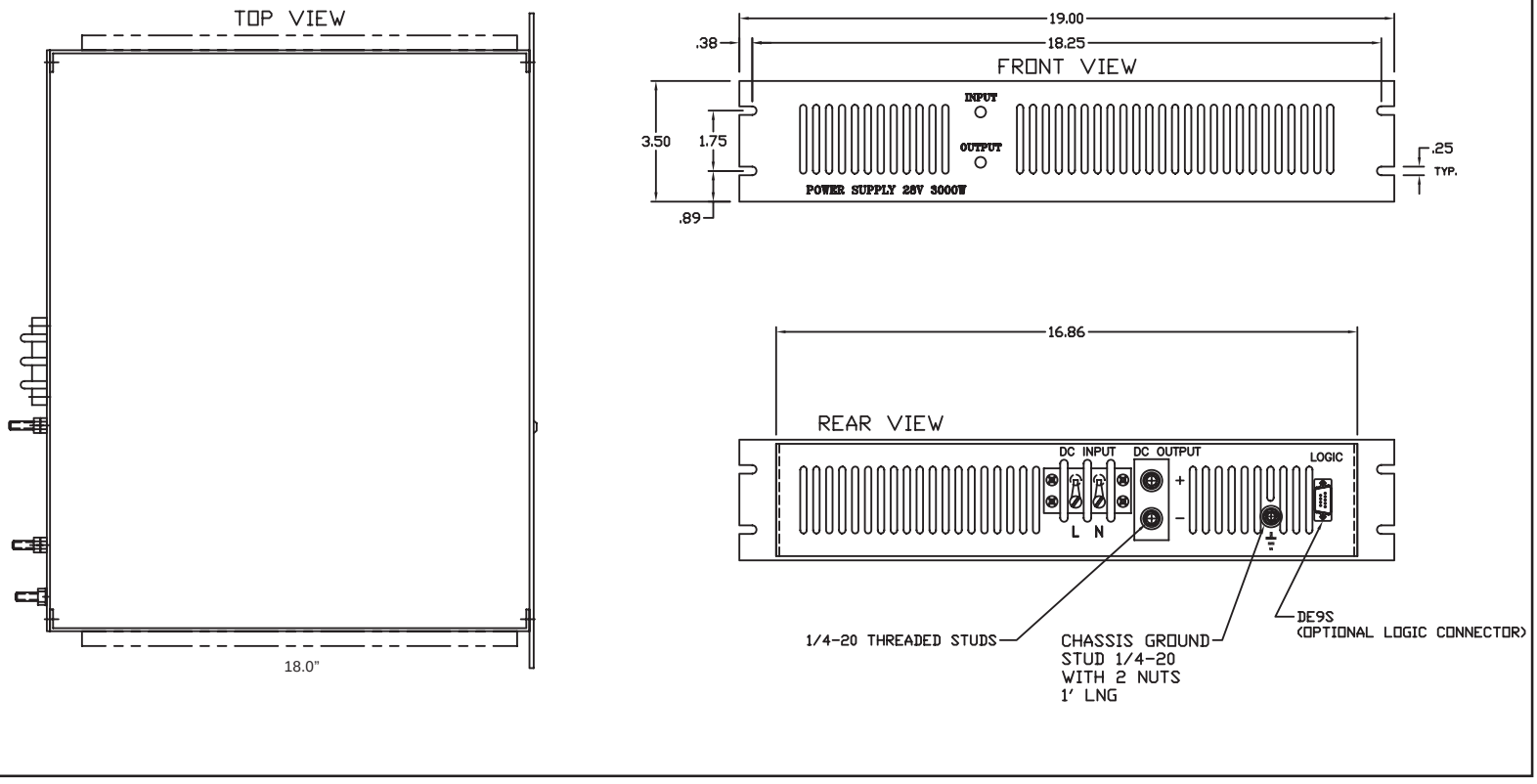
OPTION DESIGNATIONS

-ORD	REDUNDANT OPERATION
-PM	PANEL MOUNT
-MIL	RUGGEDIZED/MILITARIZED
-HSP	HOT SWAP
-LVBD	BATTERY BACK-UP
-CC	CONFORMAL COATING

Low Voltage Battery Disconnect

The LVBD module adds a new dimension to battery back-up power supplies. The power supply simultaneously charges the battery and powers the load. If the input power fails, the battery continues to support the load, thereby protecting the battery from the damaging effects of complete discharge.

MECHANICAL OUTLINE



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

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