APPLIED POWER CONVERSION
Division of
TECHNOLOGY DYNAMICS INC.

LTBC SERIES
ONE TO FOUR OUTPUTS
SWITCHING POWER SUPPLIES
150-600 WATTS - 2.56" x 5.50" x 11.50"
WITH BATTERY BACK UP OPTION

APPLICATIONS

The LTBC family of power supplies was designed to satisfy a market for low cost, high reliability applications. The LTBC is especially suitable for critical systems in remote locations, severe environment,redundant (N+1) or battery back up uninterruptible operation.
This versatile design is loaded with options, making it particularly suitable to telecommunications applications.

STANDARD FEATURES

- Compact, Light Weight
- Up to 4 Outputs
- All Outputs Tightly Regulated
  MTBF > 150,000 hours
- LED Indicators (each module)
- Input/Output Power Good
- OV/OL/OT Protected
- Remote Inhibit
- ± 5% Output Adjustment
- Terminal Block Input
- Sub-D Conn. for Output
- Meets FCC Docket 20780
- Level A and VDE 0871/6.78 Level A
  UL1950, CSA, 22.2
  No.950/IEC950 Pending

AVAILABLE OPTIONS

- Auto Line Selection (90-264 VAC)
- Redundant Operation (N+1) Configuration
- Forced Current Sharing
- Low Voltage Battery Disconnect
  (LVBD) for battery back-up operation.
- Ruggedized for Severe Environment
- Wide Temp. Operation (-30°C to +75°C)
- Conformal Coating
- Rack Mount/ Panel Mount

SPECIFICATIONS

ELECTRICAL:

Input: 90-132/180-264 VAC, 47-400Hz.
Regulation: Line ± 0.3% Load ± 2%
Ripple: 1% peak, not to exceed 100mV
Efficiency: 80% typical single output units.
70% typical for multiple output units.
Hold-up time: 20ms (minimum)
In Rush Current: 30A max. 1/2 cycle
Protections: OV, OL and OT

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: 0°C to +50°C
Storage Temperature: -30°C to +85°C
Cooling: Internal ball bearing DC fan
DC fan and/or conduction to base plate
Weight: ~ 6 lbs. (2.7 kg) max.
Size: 2.56” x 5.50” x 11.50”

AS 9100
BUREAU VERITAS
Certification
Certificate No: US008267-1

Design Excellence since 1976!

MODEL SELECTION

SINGLE OUTPUT MODULES		
MODEL NO.	OUTPUT	MAX. LOAD
LTBC-5-60	5	60
LTBC-12-40	12	40
LTBC-24-24	24	24
LTBC-28-20	28	20
LTBC-48-12	48	12

MULTIPLE OUTPUT MODULES								
OUTPUT #1 (V1)			OUTPUT #2 (-V2)	CODE	OUTPUT # 3 (+V3)	CODE	OUTPUT #4 (V4)	CODE
VDC	MAX AMP	MODEL	VDC @ MAX AMP		VDC @ MAX AMP		VDC @ MAX AMP	
5	60	LTBC-5-60	-5V @ 3A	A1	+5V @ 6A*	B1	5V @ 2A*	C1
12	40	LTBC-12-40	-12V @ 3A	A 2	+12V @ 3A	B2	12V @ 2A	C2
24	24	LTBC-24-24	-15V @ 3A	A 3	+15V @ 6A	B3	15V @ 2A	C3
28	20	LTBC-28-20	-24V @ 3A	A 4	+24V @ 3A	B4	24V @ 2A	C4
48	12	LTBC-24-12					48V @ 1A	C5

Note: Other voltages and currents available, contact the factory. Maximum total output power cannot exceed 600 watts. Maximum current cannot be exceeded.
* This output can be optionally increased to 10 Amps.

LTBC SERIES MULTIPLE OUTPUT SELECTION GUIDE
• Select first , second, third or fourth output from the tables below. • Second and third output must be equal in voltage and share common ground. • Output four is floating and may be used as positive or negative. EXAMPLE: P/N LTBC 5-60 A2BC1-Suffix +5V 60A, -12V 3A, +12V 3A, +5V 2A

OPTION DESIGNATIONS

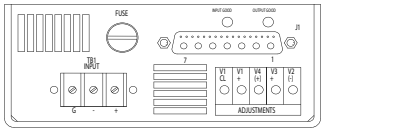
-ORD	REDUNDANT OPERATION
-RK/PNL	RACK MOUNT / PANEL MOUNT
-ALS	AUTO LINE SELECT
-CC	CONFORMAL COATING
-MIL	RUGGEDIZED/MILITARIZED
-LVBD	BATTERY BACK-UP

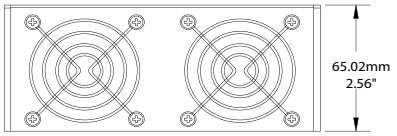
Low Voltage Battery Disconnect

The LVBD module adds a new dimension to battery backup power supplies. The power supply simultaneously charges the battery and powers the load. If the AC power fails, the battery continues to support the load. However, when the battery voltage drops below a predetermined level, the LVBD module disconnects the battery from the load, thereby protecting the battery from the damaging effects of complete discharge.

Backs up main output only. Battery is connected to output.

MECHANICAL OUTLINE

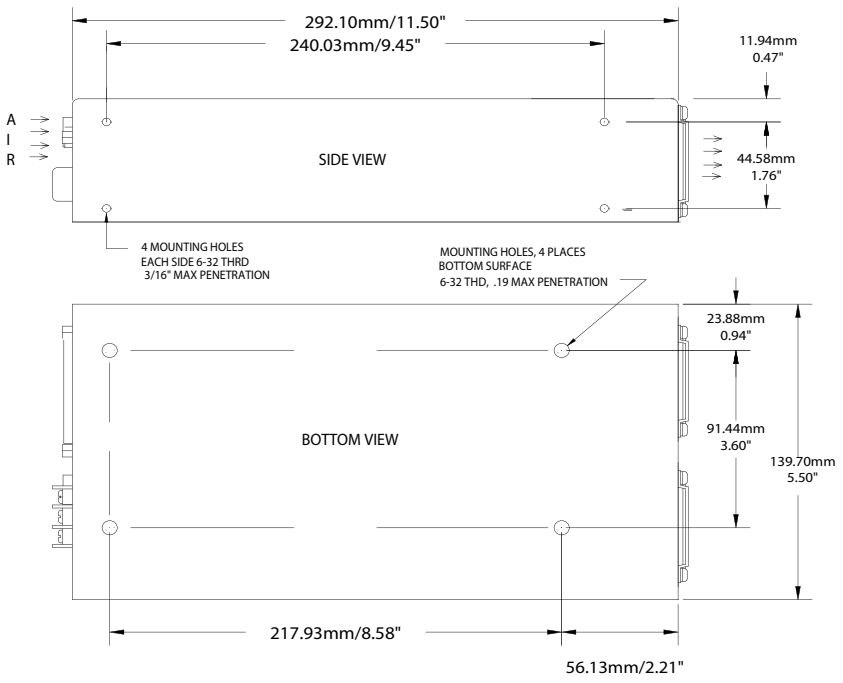




REAR PANEL
(AIR OUTLET)

INPUT (KULKA P/N 671-2 TERMINAL)		
TERMINAL BOARD TB1	1 CHASSIS GND (LEFT SIDE) 2 DC RETURN (MIDDLE) 3 DC+ (RIGHT SIDE)	42-57V

OUTPUTS ON J1 (SUB D P/N DDMZ24H7PNK)		
A4 & A5 (large pins)	+5V 60A	
A6 & A7 (large pins)	5V common (common all outputs)	
A3 (large pins)	+12V 10A	
A2 (large pins)	+/- 12V common, tied internally to A6 & A7	
A1 (large pins)	-12V 4A	
1, 2, 3 (small pins)	-5V 2A	4, 5, 6 common with A6 & A7
13 (small pin)	"Input good" signal-normally 5V (senses input)	
15 (small pin)	"Output good" signal-normally 5V (senses output)	
11, 12 (small pins)	"Inhibit" power supply shuts down if one of these terminals is pulled to output common.	



TECHNOLOGY DYNAMICS INC.
100 School Street, Bergenfield, NJ 07621
Phone: (201) 385-0500, Fax: (201) 385-0702
www.technologydynamicsinc.com