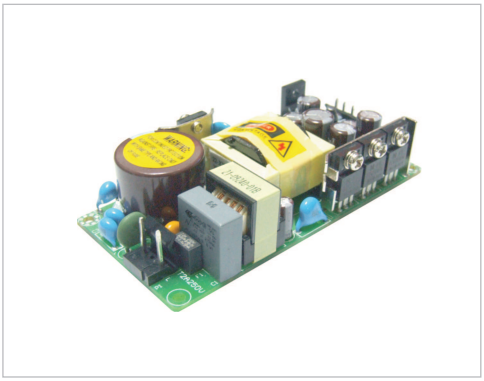
Total Power International, Inc.

TPIBU41 SERIES

40W Open Frame Type
Industrial Power Supplies

Features:

- Wide Operating Voltage 90 to 264 VAC,47 to 63 Hz
- Internal EMI filter
- Dual and Triple Output
- Input Surge Current, Over Voltage and Over Load protection
- Output Voltage Protection (Crowbar Design)
- Operating temperature -20~70°C
- Class I
- 3 year warranty



Electrical Characteristics:

Vin	**Safety Approvals Input Voltage Range**		100~240VAC
	Operate Voltage Range		90~264VAC
fin	**Input Frequency**		47~63Hz
Po	**Output Power Range**		See rating chart
Vo	**Output Voltage Range**		See rating chart
Io	**Output Current Range**		See rating chart
Iil	**Input Current (Low Line)**	Io=Full load, Vin=100VAC	1.0A
Iih	**Input Current (High Line)**	Io=Full load, Vin=240VAC	1.0A
Ir	**Low Line Inrush Current**	Io=Full load, 25°C, Cool start, Vin=115VAC	30A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start,Vin=230VAC	60A (max.)
Eff	**Efficiency**	Io=Full Load, Vin=230VAC	74~88%
REG-i	**Line Regulation**	Io=Full Load	0.5~1%
REG-o	**Load Regulation**	Vin=230VAC	5~10%
OVP	**Over Voltage Protection**		112~132%
OCP	**Over Current Protection**		110~150%
Ttr	**Time of Transient Response**	Io=Full Load to Half Load, Vin=100VAC	4mS (max.)
Th	**Hold-Up Time**	Io=Full Load, Vin=110VAC	12mS (min.)
Ts	**Start Up Time**	Io=Full Load, Vin=100VAC	2S (max.)
Vp-p	**Ripple & Noise(Peak to Peak)**	Full Load, Vin=90VAC	1% (max.)
Ilk	**Safety Ground Leakage Current**	Vin=240VAC/60Hz	0.75mA (max.)
TC	**Temperature Coefficient**	All output	±0.04%/°C
Pno	**No-Load Power Consumption**	No load, Vin=230VAC	See rating chart
Vps	**Dielectric Withstanding Voltage**	Primary to secondary	4242VDC (min.)
Vpg	**Dielectric Withstanding Voltage for Primary to PE**	Primary to PE	2506VDC (min.)
Ris	**Isolation Resistance**	Test Voltage=500VDC	50MΩ (min.)

Environmental

To	**Operating Temperature**	See derating curve
Ts	**Storage Temperature**	-40~85°C
Ho	**Operating Humidity**	0~95%
Hr	**Storage Humidity**	0~95%
MTBF	**Operating Temperature at 25°C , Calculated per MIL-HDBK-217F**	0.1M Hrs (min.)
Pd	**Derate linearly from 100% load at 50°C to 50% load at 70°C**	

Application:

- Monitor
- Industrial PC
- Set-top box
- AV equipment
- CCD recorder

Safety Approvals:

c UL us CE CB

RoHS 2002/95/EC COMPLIANT

UL/c-UL(UL 60950-1:2nd Edition)
TUV/GS(EN 60950-1:2nd Edition)

Total Power International, Inc.

TPIBU41 SERIES

40W Open Frame Type
Industrial Power Supplies

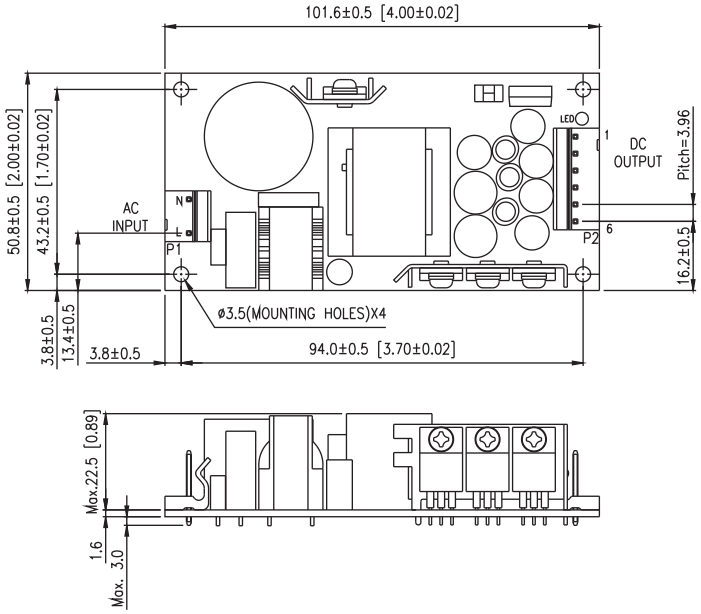
Output Voltage And Current Rating Chart (Multi Output) :

Model Number	Output #1				Output #2				Output #3				Max. Output Power	Pno(max.)
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax		
TPIBU41-200	+3.3V	0.5A	5.00A	7%	+12V	0.2A	2.00A	5%					40W	3W
TPIBU41-201	+5.0V	0.5A	5.00A	5%	+12V	0.2A	2.00A	5%					40W	3W
TPIBU41-202	+5.0V	0.5A	5.00A	5%	+15V	0.15A	1.50A	5%					40W	3W
TPIBU41-203	+5.0V	0.5A	5.00A	5%	+24V	0.1A	1.00A	5%					40W	3W
TPIBU41-209	+12V	0.3A	3.00A	5%	-12V	0.1A	1.00A	5%					40W	3W
TPIBU41-210	+15V	0.2A	2.00A	5%	-15V	0.1A	1.00A	5%					40W	3W
TPIBU41-300	+3.3V	0.5A	5.00A	7%	+12V	0.2A	2.00A	5%	-12V	0.08A	0.8A	10%	40W	3W
TPIBU41-301	+5.0V	0.35A	3.50A	5%	+12V	0.2A	2.00A	5%	-5V	0.08A	0.8A	5%	40W	3W
TPIBU41-302	+5.0V	0.35A	3.50A	5%	+12V	0.2A	2.00A	5%	-12V	0.10A	0.6A	10%	40W	3W
TPIBU41-303	+5.0V	0.35A	3.50A	5%	+15V	0.2A	2.00A	5%	-15V	0.08A	0.8A	10%	40W	3W
TPIBU41-304	+5.0V	0.35A	3.50A	5%	+24V	0.1A	1.00A	5%	-24V	0.05A	0.5A	10%	40W	3W
TPIBU41-305	+5.0V	0.35A	3.50A	5%	+24V	0.1A	1.00A	5%	-12V	0.08A	0.8A	10%	40W	3W
TPIBU41-306	+3.3V	0.5A	5.00A	7%	+12V	0.2A	2.00A	5%	-5V	0.08A	0.8A	10%	40W	3W

PIN CHART

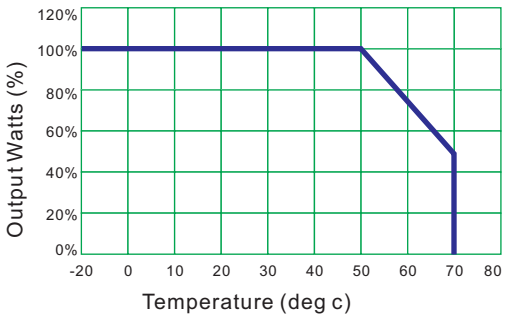
PIN / MODEL	1	2	3	4	5	6
TPIBU41-1XX	Vo3	COM	COM	Vo1	Vo1	Vo2

Mechanical Specifications:



Note:
1. Dimensions are shown in inches or mm .
2. Weight: 145gs approx.
3. Input connector mates with Molex housing 09-52-4034 and Molex 2478 series crimp terminal.

Derating Cruve :



1. Operating Temperature: -20 to 70°C
2. Derate linearly from 100% load at 50°C to 50% load at 70°C