

TPSBU30 SERIES

30W Open Frame Type
I.T.E. Power Supplies

Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- Internal EMI filter
- Input Surge Current, Over Voltage and Over Load protection
- Single and Dual Output
- Over Voltage Protection (Crowbar Design)
- Output connector mates with Lead wire
- Class I
- 2 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	0.8A (max.)
	Input Current (High Line)	Io=Full load, Vin=240VAC	0.5A (max.)
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	23A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	45A (max.)
Eff	Efficiency	Io=Full Load, Vin=230VAC	70~88%
REG-i	Line Regulation	Io=Full Load	0.5~1%
REG-o	Load Regulation	Vin=230VAC	2~10%
OVP	Over Voltage Protection	Over Voltage Protection	112~132%
OCP	Over Current Protection	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	10mS (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 for Primary to secondary	Primary to secondary	4242VDC (min.)
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE	2121VDC (min.)
Ris	Isolation Resistance	Test Voltage=500VDC	50MΩ (min.)

Note: The Ripple & Noise which is under 3.3VDC at 2% max.

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 40°C to 50% load at 70°C	

Application:

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

Safety Approvals:



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Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPSBU30-101	3 ~ 5 VDC	5.00 ~ 3.00 A	7%	15W	3.5W
TPSBU30-102	5 ~ 6 VDC	4.00 ~ 3.33 A	5%	20W	3.5W
TPSBU30-103	6 ~ 8 VDC	4.00 ~ 3.00 A	5%	24W	3.5W
TPSBU30-104	8 ~ 11 VDC	3.75 ~ 2.72 A	5%	30W	3.5W
TPSBU30-105	11 ~ 13 VDC	2.72 ~ 2.30 A	5%	30W	3.5W
TPSBU30-106	13 ~ 16 VDC	2.30 ~ 1.87 A	5%	30W	3.5W
TPSBU30-107	16 ~ 21 VDC	1.87 ~ 1.42 A	3%	30W	3.5W
TPSBU30-108	21 ~ 27 VDC	1.42 ~ 1.11 A	2%	30W	3.5W
TPSBU30-109	27 ~ 33 VDC	1.11 ~ 0.90 A	2%	30W	3.5W
TPSBU30-110	33 ~ 40 VDC	0.90 ~ 0.75 A	2%	30W	3.5W
TPSBU30-111	40 ~ 50 VDC	0.75 ~ 0.60 A	2%	30W	3.5W

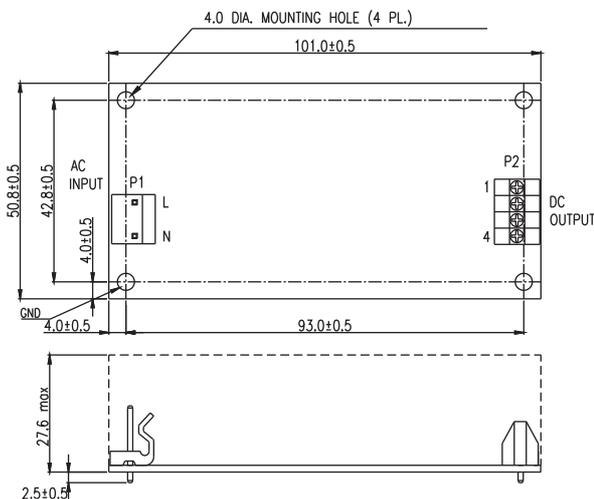
Output Voltage And Current Rating Chart (Multi Output) :

Model Number	Output #1				Output #2				Max. Output Power	Pno (max.)
	Vonom	Iomin	Iomax	Regmax	Vonom	Iomin	Iomax	Regmax		
TPSBU30-200	+3.3V	0.6A	3A	5%	+12V	0.20A	1.25A	10%	24.90W	3.5W
TPSBU30-201	+5.0V	0.6A	3A	5%	+12V	0.25A	1.25A	10%	30W	3.5W
TPSBU30-202	+5.0V	0.6A	3A	5%	+15V	0.20A	1.00A	10%	30W	3.5W
TPSBU30-203	+5.0V	0.6A	3A	5%	+24V	0.12A	0.62A	10%	30W	3.5W
TPSBU30-204	+3.3V	0.6A	3A	5%	+5V	0.30A	1.50A	10%	17.40W	3.5W
TPSBU30-205	+5.0V	0.6A	3A	5%	+36V	0.10A	0.42A	10%	30.12W	3.5W
TPSBU30-205	+9.0V	0.4A	2A	5%	-9V	0.20A	1.33A	10%	30W	3.5W
TPSBU30-209	+12V	0.2A	2A	5%	-12V	0.05A	0.50A	10%	30W	3.5W

PIN CHART

PIN MODEL	1	2	3	4
TPSBU30-1XX	RTN	RTN	OUT	OUT
TPSBU30-2XX	Vo1	COM	COM	Vo2

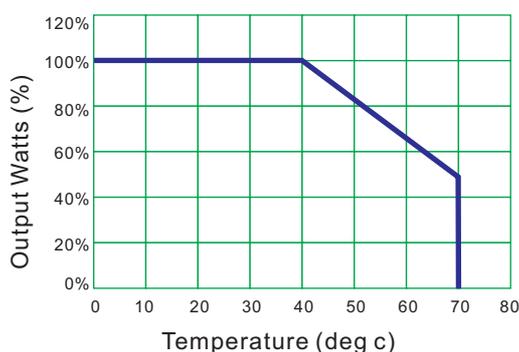
Mechanical Specifications:



Note:

1. Dimensions are shown in mm.
2. Weight: 140gs approx.
3. Input connector mates with Molex housing 09-50-3031 and Molex 2478series crimp terminal.
4. Output connector mates with Lead wire

Derating Curve :



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 40°C to 50% load at 70°C

