Total Power International, Inc.

TPSBU58 SERIES

60W 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 Output
- Class I
- Over Voltage Protection (Crowbar Design)
- 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	1.6A
Iih	**Input Current (High Line)**	Io=Full load, Vin=240VAC	1.6A
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	77~90%
REG-i	**Line Regulation**	Io=Full Load	0.5~1%
REG-o	**Load Regulation**	Vin=230VAC	2~5%
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	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 for Primary to secondary**	Primary to secondary	4242VDC (min.)
Vpg	**Dielectric Withstanding Voltage for Primary to PE**	Primary to PE	2718VDC (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 40°C to 50% load at 70°C**	

Application:

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

Safety Approvals:

RoHS 2002/95/EC COMPLIANT

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

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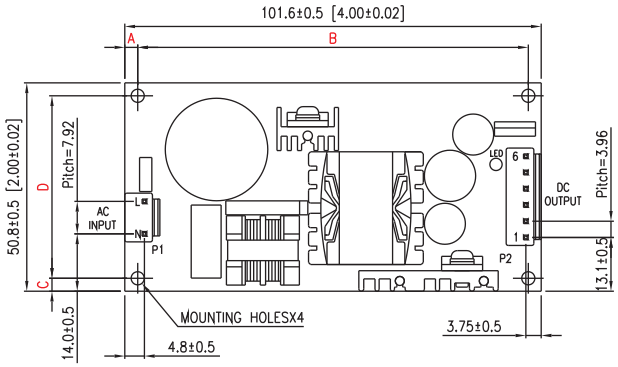
Output Voltage And Current Rating Chart (Single Output) :

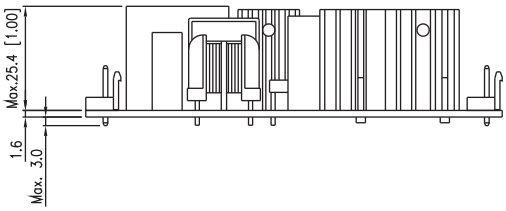
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPSBU58-102	5 ~ 6 VDC	8.00 ~ 6.66 A	5%	40W	0.5W
TPSBU58-103	6 ~ 8 VDC	8.00 ~ 6.00 A	5%	48W	0.5W
TPSBU58-104	8 ~ 11 VDC	6.68 ~ 5.00 A	5%	55W	0.5W
TPSBU58-105	11 ~ 13 VDC	5.45 ~ 4.61 A	5%	60W	0.5W
TPSBU58-106	13 ~ 16 VDC	4.61 ~ 3.75 A	5%	60W	0.5W
TPSBU58-107	16 ~ 21 VDC	3.75 ~ 2.85 A	5%	60W	0.5W
TPSBU58-108	21 ~ 27 VDC	2.85 ~ 2.22 A	3%	60W	0.5W
TPSBU58-109	27 ~ 33 VDC	2.22 ~ 1.81 A	3%	60W	0.5W
TPSBU58-110	33 ~ 40 VDC	1.81 ~ 1.50 A	3%	60W	0.5W
TPSBU58-111	40 ~ 48 VDC	1.50 ~ 1.20 A	2%	60W	0.5W

PIN CHART

PIN / MODEL	1	2	3	4	5	6
TPSBU58-1XX	OUT	OUT	OUT	RTN	RTN	RTN

Mechanical Specifications:



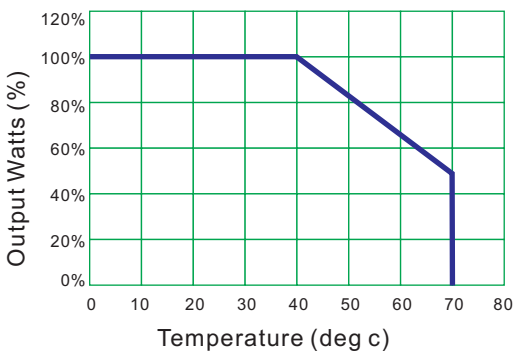


P/N:SBU58-XXX-H3
or SBU58-XXX-H4

	H3	H4
MOUNTING HOLES	3.2±0.5	4.0±0.5
A	3.15±0.5	4.3±0.5
B	95.3±0.5	93.0±0.5
C	3.15±0.5	4.0±0.5
D	44.5±0.5	42.8±0.5

Note:
1. Dimensions are shown in mm.
2. Weight: 140gs approx.
3. Input connector mates with Molex housing 35977-0390 and Molex 35922 series crimp terminal.
4. Output connector mates with Molex housing 35977-0690 and Molex 35922 series crimp terminal.

Derating Curve :



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