Total Power International, Inc.

TPIUU300 SERIES

300W U Bracket Type
Industrial Power Supplies

Features:

- Wide Operating Voltage 90 to 260 VAC,47 to 63 Hz
- Internal EMI filter
- Single Output
- Active Power Factor Correction
- Over Voltage Protection (Crowbar Design)
- Input Surge Current and Over Load protection
- Zero Voltage Switching(ZVS)
- Operating temperature -20~70°C
- Class I
- 3 year warranty



Electrical Characteristics:

Vin	**Safety Approvals Input Voltage Range**		100~240VAC
	Operate Voltage Range		90~260VAC
fin	**Input Frequency**		47~63Hz
PF	**Power Factor Correction**	Io=Full load, Vin=240VAC	0.95~1
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	3.9A
Iih	**Input Current (High Line)**	Io=Full load, Vin=240VAC	3.9A
Ir	**Low Line Inrush Current**	Io=Full load, 25°C, Cool start, Vin=115VAC	45A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	90A (max.)
Eff	**Efficiency**	Io=Full Load, Vin=230VAC	88~94%
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	20mS (min.)
Ts	**Start Up Time**	Io=Full Load, Vin=100VAC	3S (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	2550VDC (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:

- Industrial PC
- Electrical Test & Measurement Instruments
- communication equipment
- AV equipment

Safety Approvals:

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) :

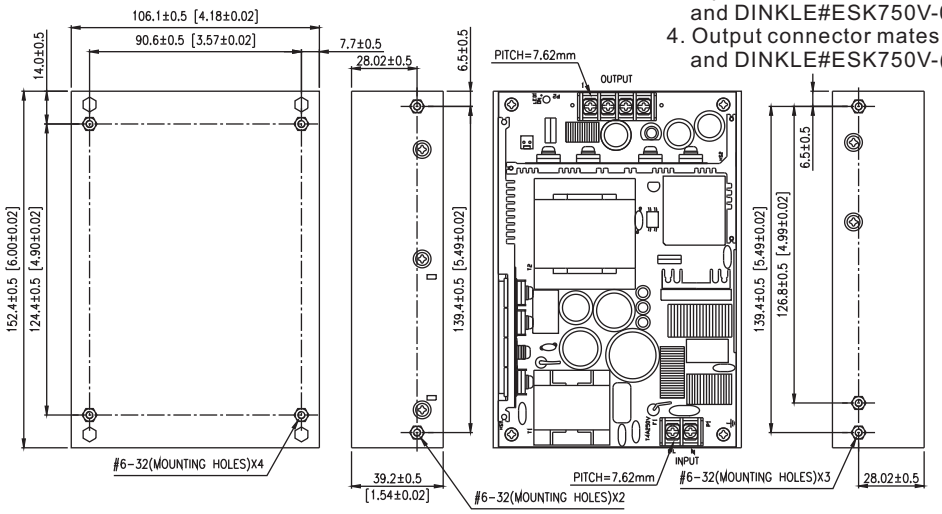
Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPIUU300-105	12 VDC	23.0 A	5%	276W	1.5W
TPIUU300-108	24 VDC	12.5 A	3%	300W	1.5W
TPIUU300-109	28 ~ 30 VDC	10.71 ~ 10.00 A	3%	300W	1.5W
TPIUU300-110	36 VDC	8.33 A	3%	300W	1.5W
TPIUU300-111	48 VDC	6.25 A	2%	300W	1.5W

PIN CHART

PIN / MODEL	1	2	3	4
TPIUU300-1XX	RTN	RTN	OUT	OUT

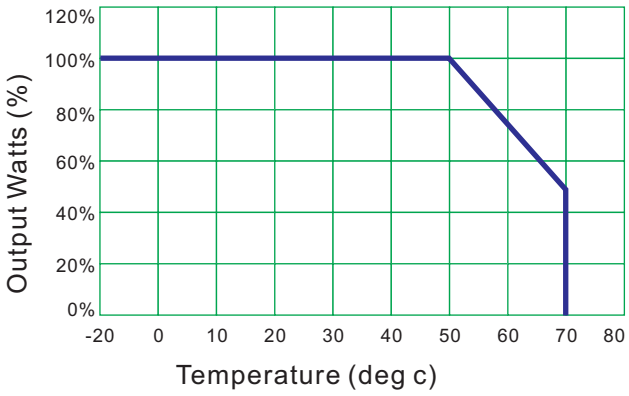
PIN / MODEL	1	2	3	4	5	6
TPIUU300-1XX	RTN	RTN	RTN	OUT	OUT	OUT

Mechanical Specifications:



Note:
1. Dimensions are shown in mm.
2. Weight: 790gs approx.
3. Input connector mates with DINKLE#DT-2GN-B01W-02P and DINKLE#ESK750V-02P.
4. Output connector mates with DINKLE#DT-2GN-B01W-(04P or 06P) and DINKLE#ESK750V-(04P or 06P).

Derating Cruve :



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