

### Features:

- Wide Operating Voltage 90 to 260 VAC, 47 to 63 Hz
- IEC-320-C14 Input Inlet
- Single to Triple Output
- Ultra-low leakage current (under 0.1mA)
- Active Power Factor Correction
- ON/OFF SWITCH (Optional)
- Class I
- ANSI/AAMI ES 60601-1: 2005 (UL/cUL 3rd Edition)  
EN 60601-1:2006 (TUV/T-mark 3rd Edition)
- Input to Output : 2MOPP
- 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=230 VAC	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	1.25A
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC	0.5A
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC	50A (max.)
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC	100A (max.)
Eff	Efficiency	Io=Full Load, Vin=230VAC	75~88%
REG-i	Line Regulation	Io=Full Load	0.5~1%
REG-o	Load Regulation	Vin=230VAC	3~7%
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	16mS (min.)
Ts	Start Up Time	Io=Full Load, Vin=100VAC	0.3~2S
Vp-p	Ripple & Noise(Peak to Peak)	Io=Full Load, Vin=90VAC	1% (max.)
Ilk	Safety Ground Leakage Current	Vin=240VAC/60Hz	0.1mA (max.)
TC	Temperature Coefficient	All output	±0.04%/°C
OA	Operating Altitude		Up to 3000m
Pno	No-Load Power Consumption	No load, Vin=230VAC	See rating chart
Vps	Dielectric Withstanding Voltage	Primary to secondary	6932VDC (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 50°C to 50% load at 70°C	

### Application:

- Medical Touch Panel PC
- Patient Monitoring System
- Ultrasound System

### Safety Approvals:



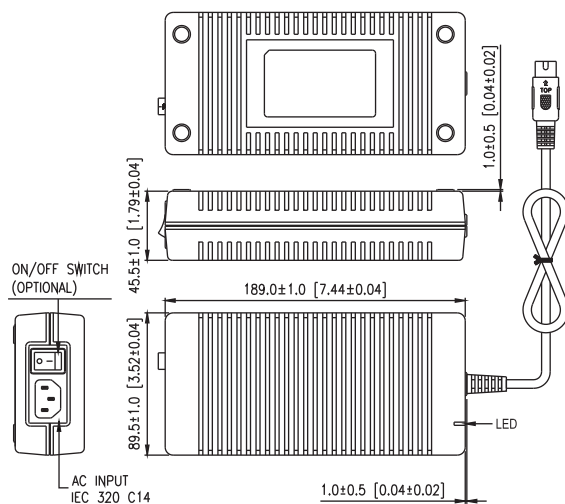
## Output Voltage And Current Rating Chart ( Single Output ) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
TPMPU101-102	5 ~ 6 VDC	14.00 ~ 11.66 A	5%	70W	3W
TPMPU101-103	6 ~ 8 VDC	13.33 ~ 10.00 A	5%	80W	3W
TPMPU101-104	8 ~ 11 VDC	11.25 ~ 8.20 A	4%	90W	3W
TPMPU101-105	11 ~ 13 VDC	8.33 ~ 7.70 A	3%	100W	3W
TPMPU101-106	13 ~ 16 VDC	7.70 ~ 6.30 A	3%	100W	3W
TPMPU101-107	16 ~ 21 VDC	6.30 ~ 4.80 A	3%	100W	3W
TPMPU101-108	21 ~ 27 VDC	4.80 ~ 3.70 A	2%	100W	3W
TPMPU101-109	27 ~ 33 VDC	3.70 ~ 3.00 A	2%	100W	3W
TPMPU101-110	33 ~ 40 VDC	3.00 ~ 2.50 A	2%	100W	3W

## 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		
TPMPU101-200	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%					69W	3W
TPMPU101-201	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%					80W	3W
TPMPU101-202	+5V	1.0A	10A	5%	+15V	0.3A	3A	6%					80W	3W
TPMPU101-203	+5V	1.0A	10A	5%	+24V	0.2A	2A	7%					80W	3W
TPMPU101-204	+3.3V	1.0A	10A	7%	+5V	0.5A	5A	5%					55W	3W
TPMPU101-209									-12V	0A	1A	5%	80W	3W
TPMPU101-210									-15V	0A	1A	5%	80W	3W
TPMPU101-212									-24V	0A	1A	5%	80W	4W
TPMPU101-215									-24V	0A	1A	5%	74W	3W
TPMPU101-300	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	-12V	0A	1A	5%	74W	3W
TPMPU101-300-1	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	+12V	0A	1A	5%	74W	3W
TPMPU101-301	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	-5V	0A	1A	5%	80W	4W
TPMPU101-301-1	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	+5V	0A	1A	5%	80W	4W
TPMPU101-302	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	-12V	0A	1A	5%	80W	4W
TPMPU101-302-1	+5V	1.0A	10A	5%	+12V	0.3A	3A	5%	+12V	0A	1A	5%	80W	4W
TPMPU101-303	+5V	1.0A	10A	5%	+15V	0.3A	3A	6%	-15V	0A	1A	5%	80W	4W
TPMPU101-303-1	+5V	1.0A	10A	5%	+15V	0.3A	3A	6%	+15V	0A	1A	5%	80W	4W
TPMPU101-304	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	-24V	0A	1A	5%	80W	3W
TPMPU101-304-1	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	+24V	0A	1A	5%	80W	3W
TPMPU101-305	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	-12V	0A	1A	5%	80W	4W
TPMPU101-305-1	+5V	1.0A	10A	5%	+24V	0.3A	3A	5%	+12V	0A	1A	5%	80W	4W
TPMPU101-306	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	-5V	0A	1A	5%	74W	3W
TPMPU101-306-1	+3.3V	1.0A	10A	7%	+12V	0.3A	3A	5%	+5V	0A	1A	5%	74W	3W
TPMPU101-308	+3.3V	1.0A	10A	7%	+5V	0.3A	3A	5%	-12V	0A	1A	5%	60W	3W
TPMPU101-308-1	+3.3V	1.0A	10A	7%	+5V	0.3A	3A	5%	+12V	0A	1A	5%	60W	3W

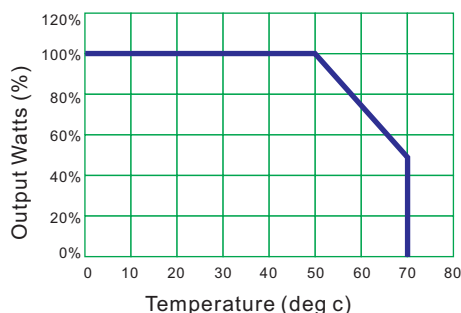
## Mechanical Specifications:



### Note:

1. Dimensions are shown in mm.
2. Weight: 778~800gs approx.
3. Optional output connector:  
See page Appendix.

## Derating Curve :



1. Operating Temperature: 0 to 70°C
2. Derate linearly from 100% load at 50°C to 50% load at 70°C
3. For dual & triple output series, derate linearly from 100% load at 45°C to 50% load at 70°C

