

TPLSU60 SERIES

60W LED Power Supply

Features:

- Wide Operating Voltage 90 to 264 VAC, 47 to 63 Hz
- Internal EMI filter
- Active Power Factor Correction
- C.C. Mode + C.V. Mode
 - Constant Current: 0.84~5.45A
 - Constant Voltage: 11~58V
- Over Voltage, Over Current, Over Over Temperature (optional)
- Class I
- 3 year warranty



Electrical Characteristics:

Vin	Safety Approvals Input Voltage Range	100~277VAC
	Operate Voltage Range	90~264VAC
fin	Input Frequency	47~63Hz
PF	Power Factor Correction	Io=Full load, Vin=90~264VAC
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
Iih	Input Current (High Line)	Io=Full load, Vin=240VAC
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC
Eff	Efficiency	Io=Full Load, Vin=230VAC
REG-i	Line Regulation	Io=Full Load
REG-o	Load Regulation	Vin=230VAC (C.C.)
	Load Regulation	Vin=230VAC (C.V.)
OVP	Over Voltage Protection	103~105%
OCP	Over Current Protection	C.C.
	Over Current Protection	C.V.
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC
Th	Hold-Up Time (C.V.)	Io=Full Load, Vin=110VAC
Ts	Start Up Time	Io=Full Load, Vin=100VAC
Vp-p	Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC
Ilk	Safety Ground Leakage Current	Vin=240VAC/60Hz
TC	Temperature Coefficient	All output
Pno	No-Load Power Consumption	No load, Vin=230VAC
Vps	Dielectric Withstanding Voltage	Primary to secondary
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE
Ris	Isolation Resistance	Test Voltage=500VDC

Application:

- Outdoor installations

Safety Approvals:

cULus CE CB



IP67

RoHS
2002/95/EC
COMPLIANT

UL/c-UL (UL8750:1st edition)

TUV(EN/IEC61347-1:2008,
EN/IEC61347-2-13:2006)

CE-EMC(EN55015:2006 &
EN61547:1995+A1:2000)

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	



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Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation (C.V.)	Max. Output Power	Pno (max.)
TPLSU60-105-11V	11 VDC	0 ~ 5.45 A	3%	60W	1W
TPLSU60-105-12V	12 VDC	0 ~ 5.00 A	3%	60W	1W
TPLSU60-105-13V	13 VDC	0 ~ 4.61 A	3%	60W	1W

TPLSU60-106-13V	13 VDC	0 ~ 4.61 A	3%	60W	1W
TPLSU60-106-14V	14 VDC	0 ~ 4.28 A	3%	60W	1W
TPLSU60-106-15V	15 VDC	0 ~ 4.00 A	3%	60W	1W
TPLSU60-106-16V	16 VDC	0 ~ 3.75 A	3%	60W	1W

TPLSU60-107-16V	16 VDC	0 ~ 3.75 A	3%	60W	1W
TPLSU60-107-17V	17 VDC	0 ~ 3.52 A	3%	60W	1W
TPLSU60-107-18V	18 VDC	0 ~ 3.33 A	3%	60W	1W
TPLSU60-107-19V	19 VDC	0 ~ 3.15 A	3%	60W	1W
TPLSU60-107-20V	20 VDC	0 ~ 3.00 A	3%	60W	1W
TPLSU60-107-21V	21 VDC	0 ~ 2.85 A	3%	60W	1W

TPLSU60-108-21V	21 VDC	0 ~ 2.85 A	3%	60W	1W
TPLSU60-108-22V	22 VDC	0 ~ 2.72 A	3%	60W	1W
TPLSU60-108-23V	23 VDC	0 ~ 2.60 A	3%	60W	1W
TPLSU60-108-24V	24 VDC	0 ~ 2.50 A	3%	60W	1W
TPLSU60-108-25V	25 VDC	0 ~ 2.40 A	3%	60W	1W
TPLSU60-108-26V	26 VDC	0 ~ 2.30 A	3%	60W	1W
TPLSU60-108-27V	27 VDC	0 ~ 2.22 A	3%	60W	1W

TPLSU60-109-27V	27 VDC	0 ~ 2.22 A	3%	60W	1W
TPLSU60-109-28V	28 VDC	0 ~ 2.14 A	3%	60W	1W
TPLSU60-109-29V	29 VDC	0 ~ 2.06 A	3%	60W	1W
TPLSU60-109-30V	30 VDC	0 ~ 2.00 A	3%	60W	1W
TPLSU60-109-31V	31 VDC	0 ~ 1.93 A	3%	60W	1W
TPLSU60-109-32V	32 VDC	0 ~ 1.87 A	3%	60W	1W
TPLSU60-109-33V	33 VDC	0 ~ 1.81 A	3%	60W	1W

TPLSU60-110-33V	33 VDC	0 ~ 1.81 A	3%	60W	1W
TPLSU60-110-34V	34 VDC	0 ~ 1.76 A	3%	60W	1W
TPLSU60-110-35V	35 VDC	0 ~ 1.71 A	3%	60W	1W
TPLSU60-110-36V	36 VDC	0 ~ 1.66 A	3%	60W	1W
TPLSU60-110-37V	37 VDC	0 ~ 1.62 A	3%	60W	1W
TPLSU60-110-38V	38 VDC	0 ~ 1.57 A	3%	60W	1W
TPLSU60-110-39V	39 VDC	0 ~ 1.53 A	3%	60W	1W
TPLSU60-110-40V	40 VDC	0 ~ 1.50 A	3%	60W	1W

TPLSU60-111-40V	40 VDC	0 ~ 1.50 A	3%	60W	1W
TPLSU60-111-41V	41 VDC	0 ~ 1.46 A	3%	60W	1W
TPLSU60-111-42V	42 VDC	0 ~ 1.42 A	3%	60W	1W
TPLSU60-111-43V	43 VDC	0 ~ 1.39 A	3%	60W	1W
TPLSU60-111-44V	44 VDC	0 ~ 1.36 A	3%	60W	1W
TPLSU60-111-45V	45 VDC	0 ~ 1.33 A	3%	60W	1W
TPLSU60-111-46V	46 VDC	0 ~ 1.30 A	3%	60W	1W
TPLSU60-111-47V	47 VDC	0 ~ 1.27 A	3%	60W	1W
TPLSU60-111-48V	48 VDC	0 ~ 1.25 A	3%	60W	1W
TPLSU60-111-49V	49 VDC	0 ~ 1.22 A	3%	60W	1W
TPLSU60-111-50V	50 VDC	0 ~ 1.20 A	3%	60W	1W

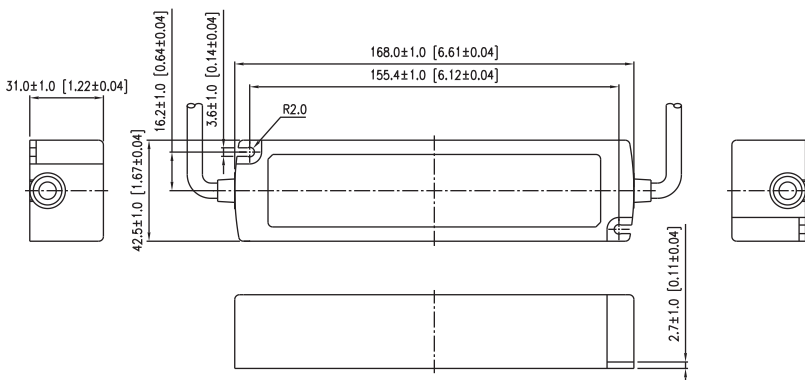
TPLSU60-112-50V	50 VDC	0 ~ 1.20 A	3%	60W	1W
TPLSU60-112-51V	51 VDC	0 ~ 1.17 A	3%	60W	1W
TPLSU60-112-52V	52 VDC	0 ~ 1.15 A	3%	60W	1W
TPLSU60-112-53V	53 VDC	0 ~ 1.13 A	3%	60W	1W
TPLSU60-112-54V	54 VDC	0 ~ 1.11 A	3%	60W	1W
TPLSU60-112-55V	55 VDC	0 ~ 1.09 A	3%	60W	1W
TPLSU60-112-56V	56 VDC	0 ~ 1.07 A	3%	60W	1W
TPLSU60-112-57V	57 VDC	0 ~ 1.05 A	3%	60W	1W
TPLSU60-112-58V	58 VDC	0 ~ 1.03 A	3%	60W	1W

The output voltage range will from V_o to $0.6 \cdot V_o$ of each model on C.C. Mode.

Input Connector : SJTW, 18AWGx3C (1Ft)

Output Connector : SJTW, 18AWGx2C (1Ft)

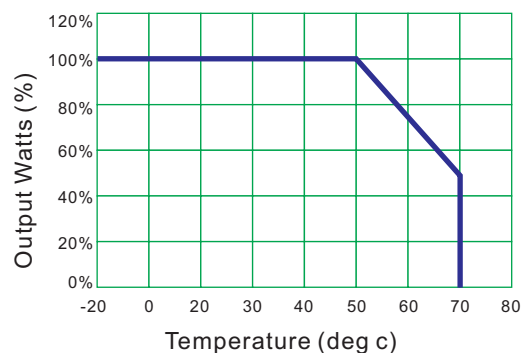
Mechanical Specifications:



Note:

1. Dimensions are shown in inches or mm .
2. Weight: 530~600gs approx.

Derating Curve :



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

