

MTWA10 SERIES



1 Year Warranty

10W Wall Mount Power Supply for I.T. Equipment

- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- USA 2 Prong Plug-In Mains Connector
- Output Voltage Available From 5VDC Thru 48VDC
- Optional Output Connector (See appendix)
- Single Output, Class II Insulation
- Energy Efficiency DoE Level VI, CoC V5 (tier2) and RoHS Compliance

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output	Ripple & Noise	Typ. Efficiency
MTWA10-S02	5 ~ 5.99 VDC	1.60 ~ 1.33 A	±5%	8W	100mVp-p	77.20%
MTWA10-S03	6.5 ~ 8 VDC	1.23 ~ 1.00 A	±5%	8W	100mVp	80.64%
MTWA10-S04	8 ~ 11 VDC	1.25 ~ 0.91 A	±5%	10W	100mVp	81.95%
MTWA10-S05	11 ~ 13 VDC	0.91 ~ 0.77 A	±5%	10W	100mVp	81.95%
MTWA10-S06	13 ~ 16 VDC	0.77 ~ 0.63 A	±5%	10W	100mVp	81.95%
MTWA10-S07	16 ~ 21 VDC	0.63 ~ 0.48 A	±5%	10W	100mVp	81.95%
MTWA10-S08	21 ~ 27 VDC	0.48 ~ 0.37 A	±4%	10W	100mVp	81.95%
MTWA10-S09	27 ~ 33 VDC	0.37 ~ 0.30 A	±4%	10W	100mVp	83%
MTWA10-S10	33 ~ 40 VDC	0.30 ~ 0.25 A	±4%	10W	100mVp	84%
MTWA10-S11	40 ~ 48VDC	0.25 ~ 0.20 A	±4%	10W	100mVp	85%

1. MTWA10-S02~S05 are required to use AWG#20 / 4FT output cable.
2. MTWA10-S06~S08 are required to use AWG#22 / 4FT output cable. .
3. MTWA10-S09~S11 are required to use AWG#24 / 4FT output cable. .
4. The regulation and efficiency will be changed by modified output cable..

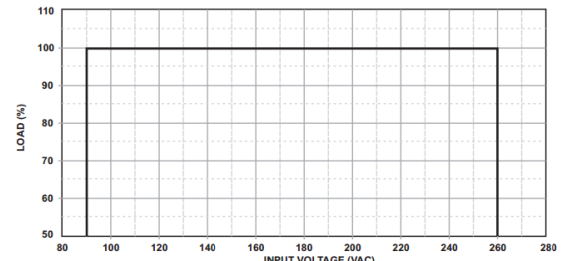
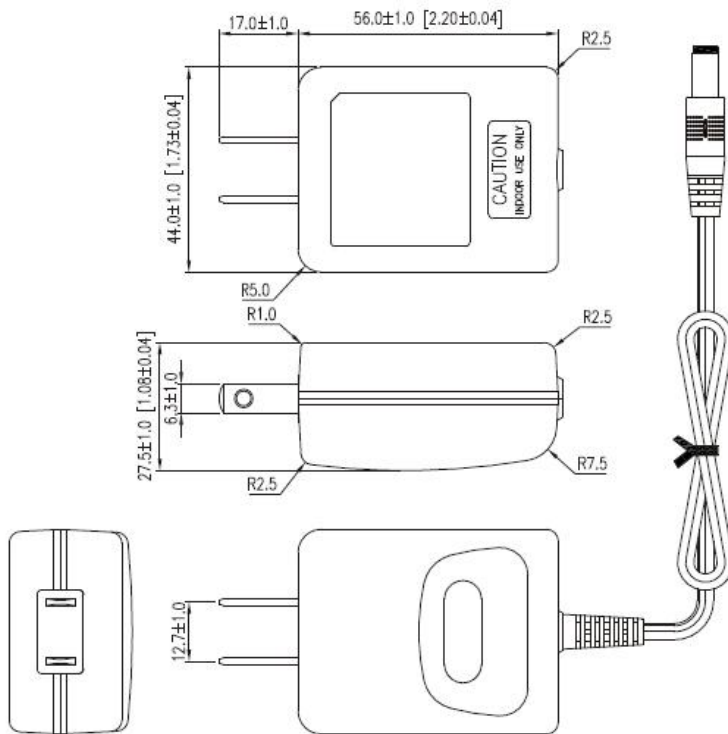
Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Safety Approvals Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC
Operate Voltage Range		90		264	VAC
Input Frequency	Sine wave	47		63	Hz
Output Power Range	See Rating Chart			10	W
Low Line Input Current	Full load, Vin=100VAC		0.3		A
High Line Input Current	Full load, Vin=240VAC		0.12		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC	25		35	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC	50		84	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.25	mA
Efficiency	Full Load, Vin=230VAC	77.2		85	%
Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	4		5	%
Over Load Protection	Nil. But, Output protected to short circuit conditions				
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC		8		ms
Start Up Time	Full Load, Vin=100~240VAC			3	s
Ripple & Noise (Peak to Peak)				2	%
Temperature Coefficient	Full Load, Vin=100~240VAC			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary			4242	VDC
EMC Emission	Compliance to EN55022(CISPR22)			B	Class

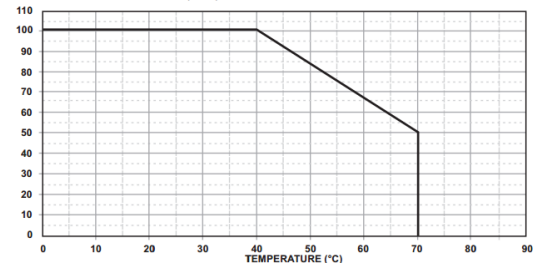
Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature	Derate linearly from 100% load at 40 to 50% load at 70	0		70	°C
Storage Temperature	10~95% RH	-40		85	°C
Operating Humidity	non-condensing	0		95%	RH
Storage Humidity		0		95%	RH
Electro Static Discharge	Air Discharge, IEC61000-4-2			8	KV
Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	KV
Mean Time Between Failure	Operation Temperature at 25 , Calculated per MIL-HDBK-217F	100K			h
Operating Altitude (Elevation)	All Condition			2000	m
Vibration	10~500Hz,10min./1cycle, 60min.each along X, Y, Z axes			5	G
Surge Voltage	Line-Neutral			1	KV
Surge Voltage	Line-PE & Neutral-PE			2	KV

Mechanical Drawing and Technical Charts



(FIG.1) INPUT VOLTAGE DERATING CURVE



(FIG.2) TEMPERATURE DERATING CURVE

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

Note:

1. Dimensions are shown in mm.
2. Weight: 90g approx.
3. Optional output connector.