

**MTDA16E SERIES**
**15W Desktop Power Supply for I.T. Equipment**


- Wide Operating Voltage 90 to 264 VAC, 47 to 63Hz
- US Standard 3 Prong and Mains AC Power Cord
- Optional Output Connector (See appendix)
- Single Output
- Class I system
- Energy Efficiency DoE VI

**1 Year Warranty**
**Approvals:**
**Single Output**

Part Number	Output Voltage	Max. Output Current	Total Regulation	Max. Output Power
MTDA16E-S02	5 ~ 5.99 VDC	2.50 ~ 2.00 A	±7%	12W
MTDA16E-S03	6.5 ~ 8 VDC	1.84 ~ 1.50 A	±5%	12W
MTDA16E-S04	8 ~ 11 VDC	1.87 ~ 1.36 A	±5%	15W
MTDA16E-S05	11 ~ 13 VDC	1.36 ~ 1.15 A	±5%	15W
MTDA16E-S06	13 ~ 16 VDC	1.15 ~ 0.94 A	±5%	15W
MTDA16E-S07	16 ~ 21 VDC	0.94 ~ 0.72 A	±5%	15W
MTDA16E-S08	21 ~ 27 VDC	0.72 ~ 0.55 A	±4%	15W
MTDA16E-S09	27 ~ 33 VDC	0.55 ~ 0.45 A	±4%	15W
MTDA16E-S10	33 ~ 40 VDC	0.45 ~ 0.37 A	±4%	15W
MTDA16E-S11	40 ~ 48 VDC	0.37 ~ 0.31 A	±4%	15W

MTD16E-S02~S07 are required to use AWG#18/4FT output cable.

MTD16E-S08~S11 are required to use AWG#20/4FT output cable.

The regulation and efficiency will be changed by modified output cable.

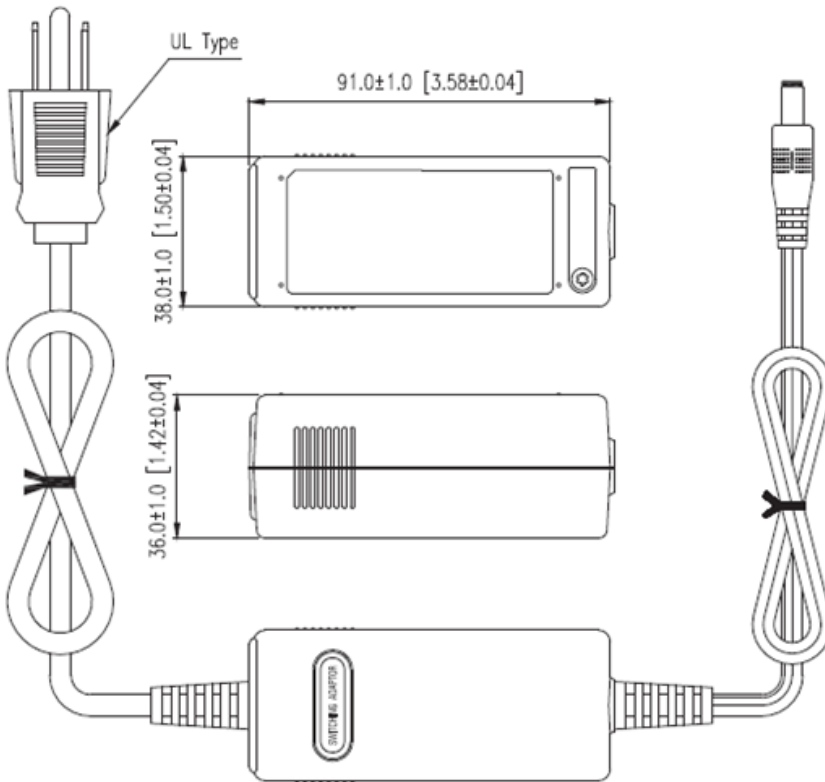
**Electrical Characteristics**

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			15	W
Low Line Input Current	Full load, Vin=100VAC		0.4		A
High Line Input Current	Full load, Vin=240VAC		0.16		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC	35		45	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC	70		108	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC	80		86	%
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	All output			±0.04	%/°C
Dielectric Withstanding Voltage(P-S)	Primary to Secondary			4242	VDC
Dielectric Withstanding Voltage(P-G)	Primary to PE			2121	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

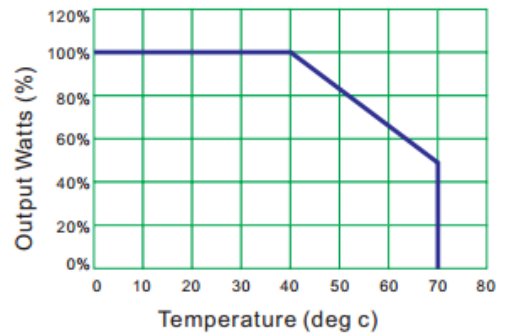
### Mechanical Diagram & Technical Chart



**Note:**

1. Dimensions are shown in mm & inch
2. Weight: 165gs approx. (Exclude the input cord)
3. Optional output connector.

**Derating Curve :**



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