MTDA60A SERIES

60W Desktop Power Supply for I.T. Equipment

- Wide Operating Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 Input Inlet
- Optional Output Connector (See appendix)
- Single Output
- Class I system
- Energy Efficiency DoE VI, CoC v5(tier2)

1 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
MTDA60A-S05	12 ~ 13 VDC	5.00 ~ 4.61 A	±5%	60W
MTDA60A-S06	13 ~ 16 VDC	4.61 ~ 3.75 A	±5%	60W
MTDA60A-S07	16 ~ 21 VDC	3.75 ~ 2.85 A	±5%	60W
MTDA60A-S08	21 ~ 27 VDC	2.85 ~ 2.22 A	±3%	60W
MTDA60A-S09	27 ~ 33 VDC	2.22 ~ 1.81 A	±3%	60W
MTDA60A-S10	33 ~ 40 VDC	1.81 ~ 1.50 A	±2%	60W
MTDA60A-S11	40 ~ 48 VDC	1.50 ~ 1.25 A	±2%	60W

MTDA60A-S05~S07 are required to use AWG#16/4FT output cable.
MTDA60A-S08~S11 are required to use AWG#18/4FT output cable.
The regulation and efficiency will be changed by modified output cable.

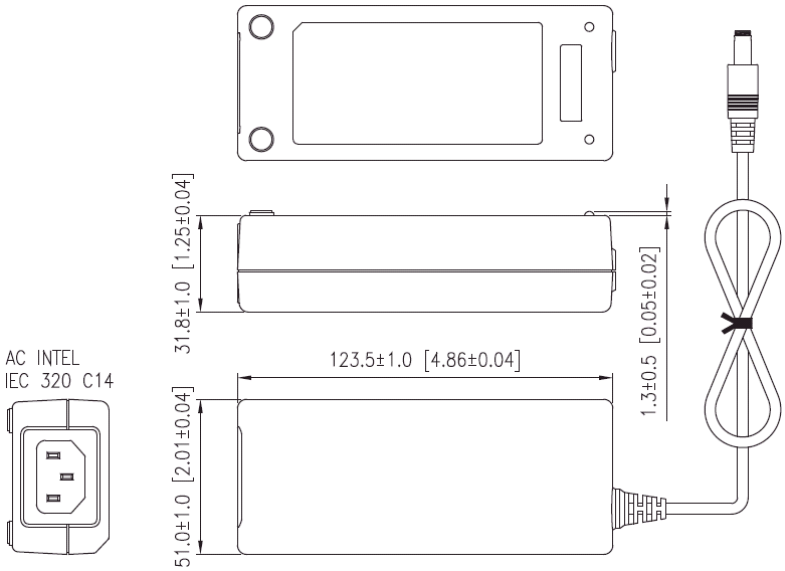
Electrical Characteristics

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			60	W
Low Line Input Current	Full load, Vin=100VAC		1.4		A
High Line Input Current	Full load, Vin=240VAC		0.8		A
Low Line Input Inrush Current	Full load, 25°C, Cool start, Vin=100VAC			55	A
High Line Input Inrush Current	Full load, 25°C, Cool start, Vin=240VAC			110	A
Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA
Efficiency	Full Load, Vin=230VAC			89	%
Line Regulation	Full Load, Vin=100~120VAC			1	%
Load Regulation	Vin=230VAC, 10~90% Load Change at Condition			5	%
Over Load Protection	Recovers automatically after fault condition is removed	110		150	%
Time of Transient Response	Io=Full Load to Half Load, Vin=110VAC			4	ms
Hold-Up Time	Full Load, Vin=100VAC		10		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
Dielectric Withstanding Voltage(P-G)	Primary to PE			2652	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			6	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

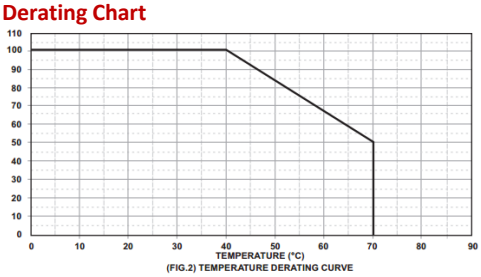
Mechanical Diagram and Technical Chart



Note:

1. Dimensions are shown in mm & inch
2. Weight: approx. 340g (Exclude the input cord)
3. Optional output connector.

Derating Chart



(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