MTDA40A SERIES

40W Desktop Power Supply for I.T. Equipment



- Wide Input Voltage 90 to 264 VAC, 47 to 63Hz
- IEC-320-C14 Input Inlet
- Output Voltage Available From 5VDC Thru 48VDC
- Single Output
- Class I Insulation
- Energy Star 2.0, CEC V, and RoHS compliance

1 Year Warranty

Approvals:

Single Output

Product Number	Output Voltage	Max. Output Current	Total Regulation	Maximum Output Power
MTDA40A-S02	5 ~ 5.99 VDC	5.00 A	5%	30W
MTDA40A-S03	6.5 ~ 8 VDC	5.00 ~ 3.75 A	5%	30W
MTDA40A-S04	8 ~ 11 VDC	4.375 ~ 3.18 A	5%	35W
MTDA40A-S05	11 ~ 13 VDC	3.64 ~ 3.07 A	5%	40W
MTDA40A-S06	13 ~ 16 VDC	3.07 ~ 2.50 A	5%	40W
MTDA40A-S07	16 ~ 21 VDC	2.50 ~ 1.90 A	5%	40W
MTDA40A-S08	21 ~ 27 VDC	1.90 ~ 1.48 A	3%	40W
MTDA40A-S09	27 ~ 33 VDC	1.48 ~ 1.21 A	3%	40W
MTDA40A-S10	33 ~ 40 VDC	1.21 ~ 1.00 A	2%	40W
MTDA40A-S11	40 ~ 48 VDC	1.00 ~ 0.83 A	2%	40W

Total Regulation is conditioned by below configuration
(S02~S05: AWG16/4FT output cable)
(S06~S08: AWG18/4FT output cable)
(S09~S11: AWG18/6FT output cable)

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage	Universal Input Voltage	100		240	VAC
	Operating Voltage	90		264	VAC
Input Frequency		47		63	Hz
Output Power Range	Vin=100 to 240VAC	0		40	W
Input Current (Low Line)	Io=Full load, Vin=115VAC			0.8	A
Input Current (High Line)	Io=Full load, Vin=230VAC			0.52	A
Low Line Inrush Current	Io=Full load, 25℃, Cool start, Vin=115VAC		40	45	A
High Line Inrush Current	Io=Full load, 25℃, Cool start, Vin=230VAC		80	90	A
Efficiency	Io=Full Load, Vin=230VAC	83	87	90	%
Line Regulation	Io=Full Load		0.5	1	%
Load Regulation	Vin=230VAC		3	7	%
Over Voltage Protection		Nil			%
Over Current Protection		110		150	%
Transient Response	Io=Full Load to Half Load, Vin=100VAC			4	mS
Hold-Up Time	Io=Full Load, Vin=230VAC	10			mS
Start Up Time	Io=Full Load, Vin=100VAC		2	3	S
Ripple & Noise (Peak to Peak)	Full Load, Vin=90VAC		0.5	1	%
Safety Ground Leakage Current	Io=Full Load, Vin=240VAC		0.5	0.75	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C
No-load Power Consumption	No load, Vin=240VAC		0.2	0.3	W

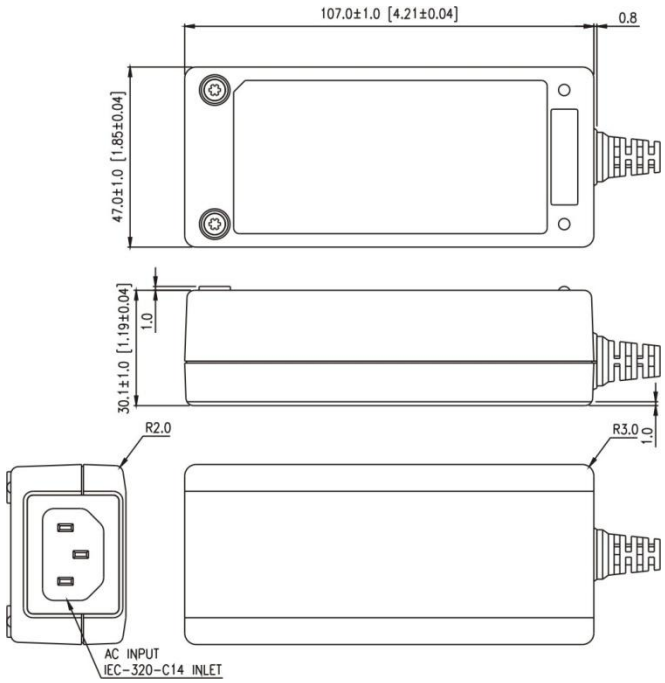
Conditions

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0	40	70	°C
Storage Temperature		-40		85	°C
Operating Humidity		0		95	%
Storage Humidity		0		75	%
Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs

Approvals and Compliance

Parameter	Test Conditions	Min.	Unit
Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242	VDC
Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121	VDC
Isolation Resistance	Test Voltage=500VDC	50	MΩ
EMI requirements for CISPR-22	Vin=220VAC	B	CLASS
EMI requirements for FCC PART-15	Vin=110VAC	B	CLASS

Mechanical and PIN out



Note:

1. Dimensions are shown in mm.
2. Weight: 265~280g approx.
3. Optional output connector.