Type A- IEC-320-C14

Type B- IEC-320-C8

Type C- IEC-320-C9

Type D- Cord A

Type E- Cord B

Economy Version

Size: Size: 3.58in x 1.5in x 1.42in (91mm x 38mm x 36mm)

OPTIONS

- Output Connector
- AC Input Inlet

FEATURES

- Wide Operating Input Voltage Range of 90~264VAC
- Optional Output Connectors Available
- Optional AC Input Inlets Available: IEC-320-C14, C8, and C6
- Class I (Type A, Type C, and Type E), Class II (Type B and Type D)
- Useful in Multiple Applications
- Short Circuit and Over Load Protection
- UL/cUL (UL 60950-1: 2nd Edition) and TUV/GS (EN 60950-1: 2nd Edition) Safety Approvals
- Single Outputs
- Level VI and RoHS Compliant
- 1 Year Warranty

APPLICATIONS

- Ethernet Hub
- Portable Devices
- Charger
- Monitor
- Set-Top Box
- AV Equipment

DESCRIPTION

The DTEPU16 AC DC desktop power supplies offers up to 15 watts of output power in a 3.58” x1.5” x 1.42” package. This series is useful in a variety of applications such as portable devices, chargers, and monitors, among others. It consists of single output models in which three AC input inlets are available: IEC-320-C14, C8, and C6, and two types of cords are available, both 2 prong and 3 prong. This series is both Energy Efficiency Level VI and RoHS compliant and has UL/cUL(UL 60950-1: 2nd Edition) and TUV/GS (EN 60950-1: 2nd Edition) safety approvals. Please call factory for order details.

MODEL SELECTION TABLE

Model Number(1)	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise(7)	No Load Power Consumption	Output Power	Efficiency
			Min.	Max.				
DTEPU16x-102	90~264VAC	5~5.99VDC	2.00	2.50	100mVp-p	0.1W	12W	80%
DTEPU16x-103		6.5~8VDC	1.50	1.84	100mVp-p		12W	83%
DTEPU16x-104		8~11VDC	1.22	1.68	100mVp-p		13.5W	83.6%
DTEPU16x-105		11~13VDC	1.15	1.36	100mVp-p		15W	81.13%
DTEPU16x-106		13~16VDC	0.94	1.15	100mVp-p		15W	81.13%
DTEPU16x-107		16~21VDC	0.72	0.94	100mVp-p		15W	81.13%
DTEPU16x-108		21~27VDC	0.55	0.72	100mVp-p		15W	81.13%
DTEPU16x-109		27~33VDC	0.45	0.55	100mVp-p		15W	85%
DTEPU16x-110		33~40VDC	0.37	0.45	100mVp-p		15W	86%
DTEPU16x-111		40~48VDC	0.31	0.37	100mVp-p		15W	86%

SPECIFICATIONS

All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
We reserve the right to change specifications based on technological advances.

SPECIFICATION		TEST CONDITIONS		Min	Typ	Max	Unit
INPUT SPECIFICATIONS							
Input Voltage Range		Safety Approvals Input Voltage Range		100		240	VAC
		Operating Voltage Range		90		264	
Input Frequency		Sine Wave		47		63	Hz
Input Current	Low Line	Io=Full Load, Vin=100VAC				0.4	A
	High Line	Io=Full Load, Vin=240VAC				0.20	
Inrush Current	Low Line	Io=Full Load, 25ºC, Cool Start, Vin=115VAC		35		45	A
	High Line	Io=Full Load, 25ºC, Cool Start, Vin=230VAC		70		90	
OUTPUT SPECIFICATIONS							
Output Voltage				See Table			
Line Regulation[5]		Io=Full Load		0.5		1	%
Load Regulation[6]		Vin=230VAC		4		5	%
Output Power				See Table			
Output Current				See Table			
Ripple & Noise (20MHz BW)[7]					100		mVp-p
Transient Response Time		Full Load, Vin=100VAC				4	mS
Hold-Up Time[8]		Io=Full Load, Vin=110VAC		8			mS
Start-Up Time		Io=Full Load, Vin=100VAC				3	S
Temperature Coefficient		All Outputs			±0.04		%/ºC
PROTECTION							
Short Circuit Protection				Automatic Recovery			
Over Load Protection				None, but output is protected against short circuit conditions.			
ENVIRONMENTAL SPECIFICATIONS							
Operating Temperature		Derate linearly from 100% load at 40ºC to 50% load at 70ºC		0		70	ºC
Storage Temperature		10~95%RH		-40		85	ºC
Operating Humidity		Non-Condensing		0		95	%
Storage Humidity				0		95	%
Electro Static Discharge		Air Discharge, IEC61000-4-2				8	kV
		Contact Discharge, IEC61000-4-2				6	
Operating Altitude (Elevation)		All Conditions				3000	M
Vibration		10~500Hz, 10min./1cycle, 60min. each along X,Y,Z axes				5	G
Surge Voltage		Line-Neutral				1	kV
		Line-PE & Neutral-PE					
Cooling				Free Air Convection			
Flammability Rating				UL94V-1			
MTBF		Operating temperature at 25ºC, Calculated per MIL-HDBK-217F		100,000			Hrs
GENERAL SPECIFICATIONS							
Efficiency		Rated load and nominal line		See Table			
Dielectric Withstanding Voltage		Type A, Type C, Type E	Primary to PE			2594	VDC
		All Outputs	Primary to Secondary			4242	
Safety Ground Leakage Current		Vin=240VAC/60Hz	Type A, Type C, Type E			0.75	mA
			Type B, Type D			0.25	
PHYSICAL SPECIFICATIONS							
Weight				5.82oz (165g)			
Dimensions (L x W x H)				3.58in x 1.50in x 1.42in (91mm x 38.0mm x 36.0mm)			
SAFETY							
Safety Approvals[2]		All Outputs		UL/c-UL (UL 60950-1: 2nd Edition)[9]			
		Type A, Type C, Type E		TUV/GS (EN 60950-1: 2nd Edition)			
		DTEPU16A		cULus CE CB FC LPS VI RoHS2			
		DTEPU16B		CE CB FC LPS VI RoHS2			
		DTEPU16C		cULus CE CB FC LPS VI RoHS2			
		DTEPU16D		CE CB FC LPS VI RoHS2			
		DTEPU16E		cULus CE CB FC LPS VI RoHS2			
Protection Classes		Type A, Type C, Type E		Class I			
		Type B, Type D		Double Insulated, Class II			
EMC Emission				Compliance to EN55022 (CISPR)			

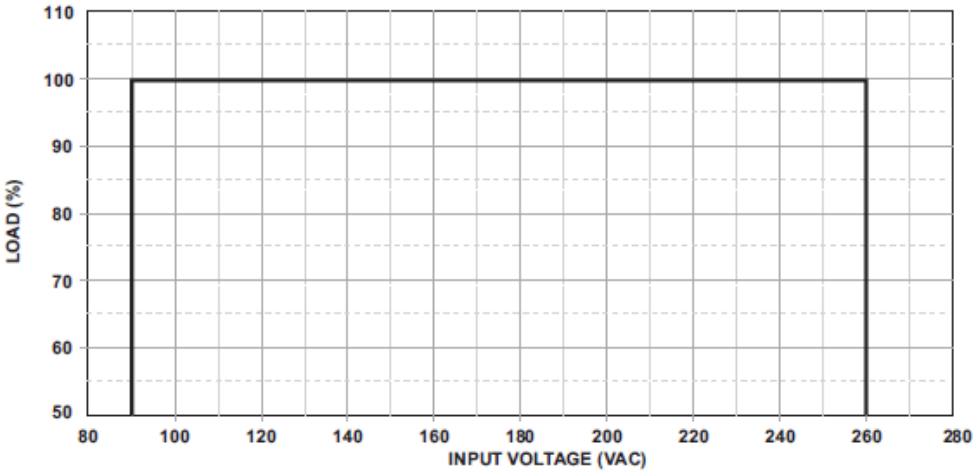
NOTES

(1) The "x" in the model number represents options for models. When "A"=IEC-320-C14, "B"=IEC-320-C8, "C"=IEC-320-C6, "D"=2-Prong Power Cord, and "E"=3-Prong Power Cord
DTEPU16x-102~107 are required to use AWG#18/4FT output cable.
DTEPU16x-108~111 are required to use AWG#20/4FT output cable.
Electrical characteristics will be changed by modified output cable.
(2) DTEPU16A-104, 105, 108 are available on NRCan mark.
DTEPU16C-104, 105, 108 are available on NRCan mark.
DTEPU16E-104, 105, 108 are available on NRCan mark.
(3) Output can provide up to peak load when the power supply starts up. Staying in more than rated load continuously is not allowed.
(4) In 60% rated load condition, each output is checked to be within voltage accuracy.
(5) Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.
(6) Load regulation is defined by changing ±40% of measured output load from 60% rated load.
(7) Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.47μF capacitor at rated load and nominal line.
(8) Hold up time is measured from the end of the last charging pulse to the time which the main output drops down to low limit of main output at rated load and nominal line.
(9) This product is Listed to applicable standards and requirements by UL.

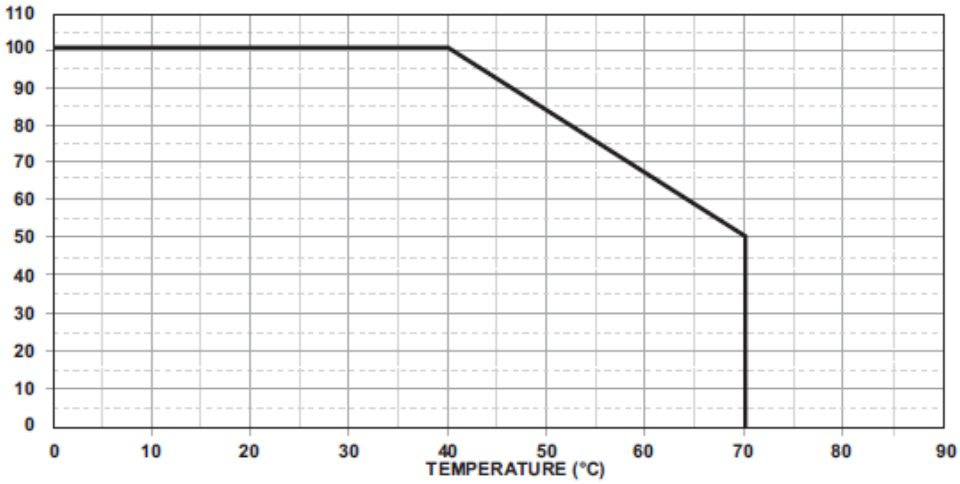
**Due to advances in technology, specifications subject to change without notice.*

DERATING CURVES

Input Voltage Derating Curve

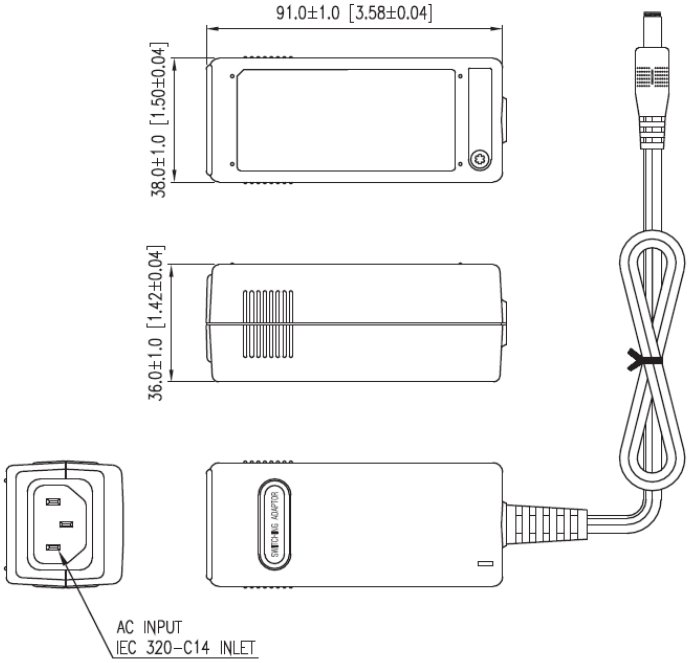


Temperature Derating Curve

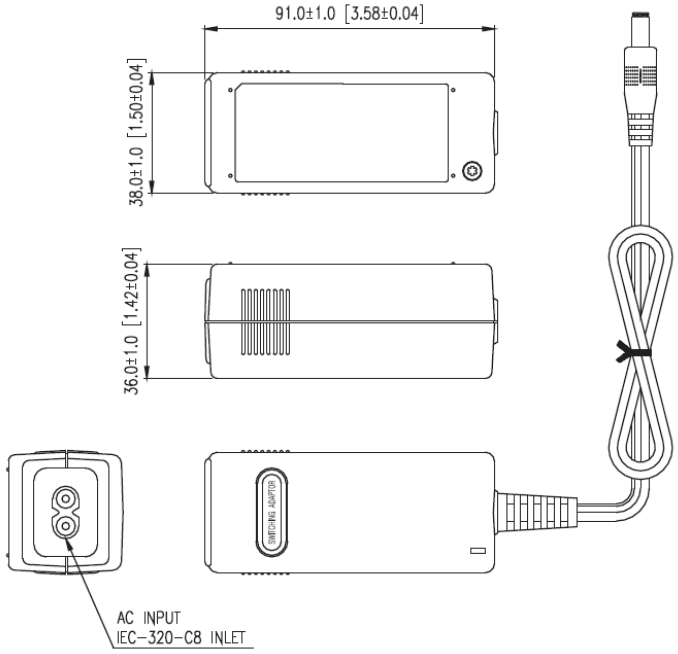


MECHANICAL DRAWINGS

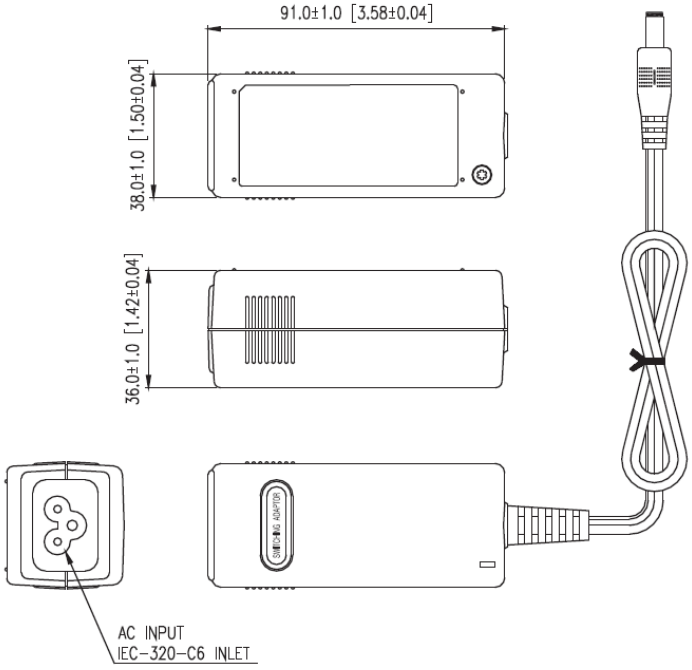
Type A



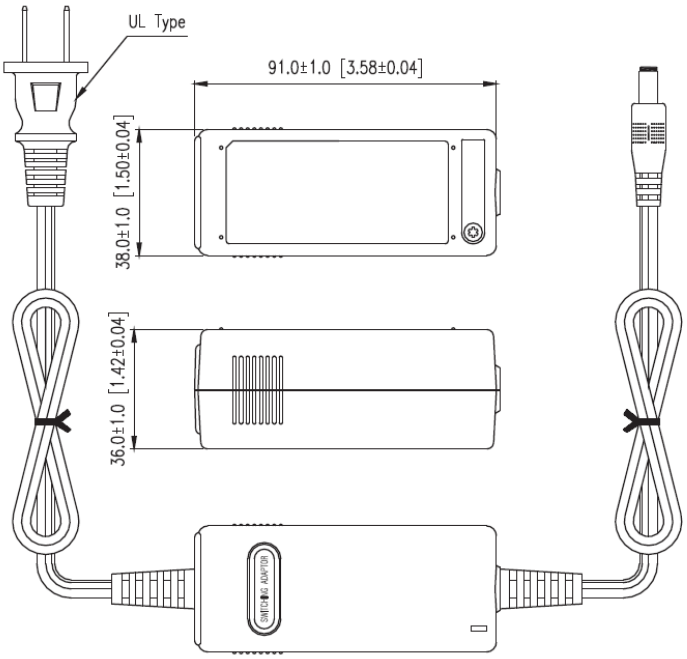
Type B



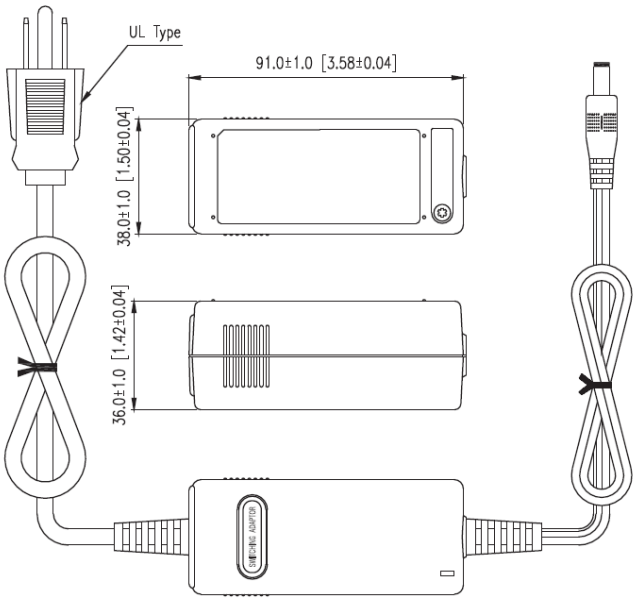
Type C



Type D



Type E



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