



Size:
4.21 x 1.85 x 1.19 inches
107.0 x 47.0 x 30.1 mm

Applications:

- POS Systems
- AV Equipment
- Industrial PCs
- LED Lighting Applications



FEATURES

- Class I
- RoHS Compliant
- Up to 40 Watts Output Power
- Single Outputs
- 90% High Efficiency
- Free Air Convection Cooling
- Energy Star 2.0, Efficiency Level VI
- 90-264VAC Input Voltage Range
- Approved as Limited Power Source (LPS)
- UL/cUL (UL 60950-1: 2nd edition) and TUV/GS (EN 60950-1: 2nd edition) Safety Approvals
- Meets FCC Part-15 Class B & CISPR-22 Class B Emission Limits
- -40°C to +70°C Operating Temperature Range
- IEC-320-C14 AC Inlet Connector
- Optional Output Connectors Available

DESCRIPTION

The DTAPU41 series of AC/DC desktop power supplies provides up to 40 Watts of continuous output power in a 4.21 x 1.85 x 1.19 inch package. This series consists of single output models ranging from 5VDC to 48VDC with a 90~264VAC input voltage range and an IEC-320-C14 AC inlet connector. Some features include high efficiency up to 90%, -40°C to +70°C operating temperature range, and over current protection. All units are UL 94V-1, RoHS, and CEC & Energy Star Level VI compliant. This series also meets FCC Part-15 class B and CISPR-22 class B emission limits. All models meet new CE requirements and have UL/cUL (UL 60950-1: 2nd edition) and TUV/GS (EN 60950-1: 2nd edition) safety approvals. All units have been 100% burn-in tested.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage (1)	Output Current	Total Regulation (2)	Output Power
DTAPU41A-102	90~264 VAC	5 ~ 5.99 VDC	5.00A	5%	30W
DTAPU41A-103		6.5 ~ 8 VDC	5.00 ~ 3.75A	5%	30W
DTAPU41A-104		8 ~ 11 VDC	4.375 ~ 3.18 A	5%	35W
DTAPU41A-105		11 ~ 13 VDC	3.64 ~ 3.07 A	5%	40W
DTAPU41A-106		13 ~ 16 VDC	3.07 ~ 2.50 A	5%	40W
DTAPU41A-107		16 ~ 21 VDC	2.50 ~ 1.90 A	5%	40W
DTAPU41A-108		21 ~ 27 VDC	1.90 ~ 1.48 A	3%	40W
DTAPU41A-109		27 ~ 33 VDC	1.48 ~ 1.21 A	3%	40W
DTAPU41A-110		33 ~ 40 VDC	1.21 ~ 1.00 A	2%	40W
DTAPU41A-111		40 ~ 48 VDC	1.00 ~ 0.83 A	2%	40W

NOTES

1. The output voltage is specified as a range (ex: 40~48VDC); the customer must specify what they would like the output voltage set at.
2. Models DTAPU41A-102~105 need to use AWG#16/4FT output cable in order to meet the total regulation specified. Models DTAPU41A-106~111 need to use AWG#18/4FT output cable in order to meet the total regulation specified. The regulation and efficiency will change if a different output cable is used.
3. Optional output connectors are available for this series. Please call factory for ordering details.

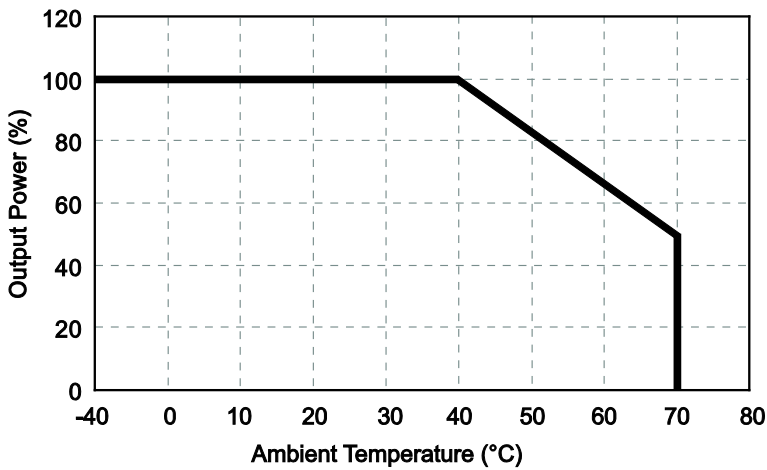
Due to advances in technology, specifications are subject to change without notice.

SPECIFICATIONS: DTAPU41 SERIES

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	Safety Approvals Input Voltage Range	100		240	VAC
	Operating Input Voltage Range	90		264	
Input Frequency		47		63	Hz
Input Current	100VAC, full load			0.93	A
	240VAC, full load			0.93	
Inrush Current	115VAC, full load, 25°C, cold start	40		45	A
	230VAC, full load, 25°C, cold start	80		90	
No Load Power Consumption	230VAC, no load			0.3	W
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	LL to HL, full load	0.5		1	%
Load Regulation	230VAC	3		7	%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (peak to peak)	90VAC, full load			1	%
Hold-up Time	110VAC, full load	10			ms
Start-up Time	100VAC, full load			2	s
Transient Response Time	100VAC, Full load to half load			4	ms
Temperature Coefficient	0~50°C	-0.04		+0.04	%/°C
PROTECTION					
Over Current Protection		110		150	%
GENERAL SPECIFICATIONS					
Efficiency	230 VAC, full load	83		90	%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
	Primary to PE	2550			
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Leakage Current	240VAC/60Hz			0.75	mA
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating linearly from 100% Load at 40°C to 50% load at 70°C	-40		+70	°C
Storage Temperature		-40		+85	°C
Operating Humidity		0		95	%
Storage Humidity		0		95	%
Cooling		Free air convection			
MTBF	MIL-HDBK-217F, 25°C	100,000			hours
PHYSICAL SPECIFICATIONS					
Weight		Approx. 9.35~9.88oz (265~280g)			
Dimensions (L x W x H)		4.21 x 1.85 x 1.19 in (107.0 x 47.0 x 30.1 mm)			
AC Inlet		IEC-320-C14			
Output Connector		Several options available			
SAFETY, EMC, & COMPLIANCE					
Safety Approvals		UL/cUL (UL60950-1: 2 nd edition), TUV/GS (EN60950-1: 2 nd edition), CE			
EMI Requirements for CISPR-22	220VAC	B			Class
EMI Requirements for FCC PART-15	110VAC	B			Class
Compliance		RoHS and UL 94V-1			
CEC & Energy Star		CEC and Energy Star 2.0, Efficiency Level VI			

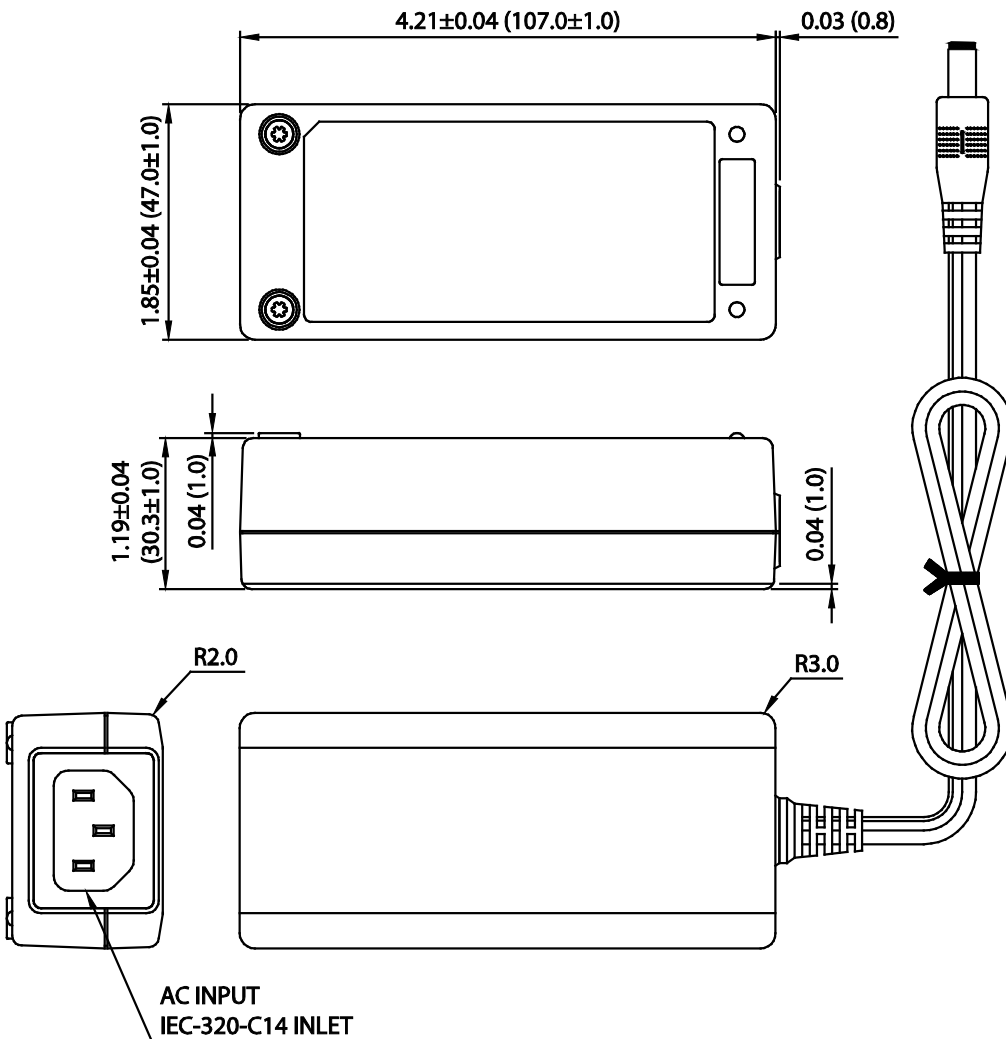
DERATING



NOTES

1. Operating Temperature: -40 to +70°C
2. Derating linearly from 100% load at 40°C to 50% load at 70°C.

MECHANICAL DRAWINGS



NOTES:

1. Unit: inches (mm)
2. Weight: Approx. 9.35~9.88oz (265~280g)
3. Optional output connectors available
4. All dimensions are for reference only

COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 50 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

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