

Wall Industries, Inc.

DTIPU65 SERIES

90~264VAC Input Voltage Range
Single to Quad Outputs
-20°C to +70°C Operating Temperature Range
Class I, Up to 80 Watts
AC/DC Desktop Switching Power Supplies



FEATURES

- Class I
- Splash Proof
- RoHS Compliant
- UL 94V-1 Compliant
- CEC and Energy Star Level V Compliant
- IEC-320-C14 AC Inlet Connector
- 100% Burn-in Tested
- Single to Quad Outputs
- Wide Input Voltage Range: 90~264VAC
- Dimensions: 6.61" x 3.06" x 1.77"
- Input Surge Current, Over Voltage, and Over Load Protection
- Over Voltage Protection (Crowbar Design)
- -20°C to +70°C Operating Temperature Range
- Meets FCC Part-15 Class B and CISPR-22 Class B Emission Limits
- UL/cUL (UL60950-1: 2nd Edition) and TUV/GS (EN 60950-1: 2nd Edition) Safety Approvals
- Optional On/Off Switch Available (Suffix "SW")
- Optional Output Connectors Available

DESCRIPTION

The DTIPU65 series of class I AC/DC desktop switching power supplies provides up to 80 Watts of continuous output power in a 6.61" x 3.06" x 1.77" package. This series consists of single, dual, triple, and quad output models with a 90~264VAC input voltage range and an IEC-320-C14 AC inlet connector. These power supplies have an industrial operating temperature range of -20°C to +70°C and are protected against input surge current, over voltage, and over load conditions. All units are UL 94V-1 and RoHS compliant and meet FCC Part-15 class B and CISPR-22 class B emission limits. The DTIPU65 series has been 100% burn-in tested and also meets new CE requirements and has UL/cUL (UL 60950-1: 2nd edition) and TUV/GS (EN 60950-1: 2nd edition) safety approvals. These supplies have an optional On/Off switch (suffix "SW") and optional output connectors available.

SPECIFICATIONS: DTIPU65 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	Nom	Max	Unit
INPUT SPECIFICATIONS					
Operating Voltage Range	Operating Input Voltage Range	90		264	VAC
	Safety Approvals Input Voltage Range	100		240	
Input Frequency		47		63	Hz
Input Current	Io = Full Load, Vin = 115VAC			1.9	A
	Io = Full Load, Vin = 230VAC			1.5	
Inrush Current	Io = Full Load, 25°C, Cool Start, Vin = 115VAC		26	30	A
	Io = Full Load, 25°C, Cool Start, Vin = 230VAC		48	55	
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	Io = Full Load		0.5	1	%
Load Regulation	Vin = 230VAC		5	7	%
Output Power	Vin = 90 to 264VAC	0		80	W
Output Current Range		See Table			
Ripple & Noise (peak to peak)	Outputs under 3.3VDC	Full Load, Vin = 90VAC		2	%
	Others		0.5	1	
Transient Response Time	Io = Full Load to Half Load, Vin = 100VAC			4	ms
Hold-Up Time	Io = Full Load, Vin = 110VAC	12	16		ms
Start-Up Time	Io = Full Load, Vin = 100VAC	0.3	1	2	s
Temperature Coefficient		-0.04		+0.04	%/°C
PROTECTION					
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
GENERAL SPECIFICATIONS					
Efficiency	Io = Full Load, Vin = 230VAC	75	83	88	%
Dielectric Withstanding Voltage	Primary to Secondary	4242			VDC
	Primary to Ground	2121			
Isolation Resistance	Test Voltage = 500VDC	50			MΩ
Safety Ground Leakage Current	Io = Full Load, Vin = 240VAC		0.5	0.75	mA
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating linearly from 100% Load at 40°C to 50% load at 70°C	-20	40	70	°C
Storage Temperature		-40		85	°C
Operating Humidity		0		95	%
Storage Humidity		0		95	%
MTBF	Operating Temp. at 25°C; calculated per MIL-HDBK-217F	100,000 hours			
PHYSICAL SPECIFICATIONS					
Weight		approx. 1.26~1.65lbs (570~750g)			
Dimensions (L x W x H)		6.61 x 3.06 x 1.77 inches (168.0 x 77.6 x 45.0 mm)			
AC Inlet Connector		IEC-320-C14			
On/Off Switch (optional)	Suffix "SW"	See mechanical drawing			
SAFETY & COMPLIANCE					
Safety Approvals ⁽⁶⁾	UL/cUL (UL60950-1: 2 nd edition.), TUV/GS (EN60950-1: 2 nd edition), CE				
EMI Requirements for CISPR-22	Vin = 220VAC	B			Class
EMI Requirements for FCC PART-15	Vin = 110VAC	B			Class
Compliance		RoHS and UL 94V-1			
CEC & Energy Star Compliance	DTIPU65-105~111 models	CEC Level V			

MODEL SELECTION TABLE

SINGLE OUTPUT MODELS

Model Number	Input Voltage Range	Output Voltage ⁽¹⁾	Max. Output Current	Total Regulation	Max. Output Power
DTIPU65-101	90~264 VAC	3 ~ 5 VDC	10.0~16.6A	7%	50W
DTIPU65-102	90~264 VAC	5 ~ 6 VDC	10.8~13.0A	7%	65W
DTIPU65-103	90~264 VAC	6 ~ 8 VDC	8.70~11.6A	5%	69.6W
DTIPU65-104	90~264 VAC	8 ~ 11 VDC	6.81~9.37A	5%	75W
DTIPU65-105	90~264 VAC	11 ~ 13 VDC	6.15~7.27A	5%	80W
DTIPU65-106	90~264 VAC	13 ~ 16 VDC	5.00~6.15A	5%	80W
DTIPU65-107	90~264 VAC	16 ~ 21 VDC	3.80~5.00A	5%	80W
DTIPU65-108	90~264 VAC	21 ~ 27 VDC	2.96~3.80A	5%	80W
DTIPU65-109	90~264 VAC	27 ~ 33 VDC	2.42~2.96A	5%	80W
DTIPU65-110	90~264 VAC	33 ~ 40 VDC	2.00~2.42A	5%	80W
DTIPU65-111	90~264 VAC	40 ~ 48 VDC	1.66~2.00A	5%	80W

DUAL OUTPUT MODELS

Model Number	Input Voltage Range	Output Voltage	Output Current		Max. Regulation	Max. Output Power
			Min	Max.		
DTIPU65-200	90~264 VAC	+3.3 VDC	0.7A	7A	7%	56.1W
		+12.0 VDC	0.55A	2.75A	5%	
DTIPU65-201	90~264 VAC	+5.0 VDC	0.7A	7A	5%	65W
		+12.0 VDC	0.6A	3A	5%	
DTIPU65-202	90~264 VAC	+5.0 VDC	1.4A	7A	5%	65W
		+15.0 VDC	0.6A	3A	5%	
DTIPU65-203	90~264 VAC	+5.0 VDC	1.4A	7A	5%	65W
		+24.0 VDC	0.3A	2A	5%	
DTIPU65-204	90~264 VAC	+3.3 VDC	1.4A	7A	7%	38.1W
		+5.0 VDC	0.6A	3A	5%	
DTIPU65-215	90~264 VAC	+5.0 VDC	1.4A	7A	5%	65W
		-24.0 VDC	0.4A	2A	5%	

TRIPLE OUTPUT MODELS

Model Number	Input Voltage Range	Output Voltage	Output Current		Max. Regulation	Max. Output Power
			Min	Max.		
DTIPU65-300	90~264 VAC	+3.3 VDC	1.4A	7A	7%	65W
		+12.0 VDC	0.6A	3A	5%	
		-12.0 VDC	0.1A	0.8A	5%	
DTIPU65-301	90~264 VAC	+5.0 VDC	0.6A	6A	5%	65W
		+12.0 VDC	0.3A	3A	5%	
		-5.0 VDC	0A	0.8A	5%	
DTIPU65-302	90~264 VAC	+5.0 VDC	0.6A	6A	5%	65W
		+12.0 VDC	0.3A	3A	5%	
		-12.0 VDC	0A	0.8A	5%	
DTIPU65-303	90~264 VAC	+5.0 VDC	0.6A	6A	5%	65W
		+15.0 VDC	0.6A	3A	5%	
		-15.0 VDC	0A	0.8A	5%	
DTIPU65-304	90~264 VAC	+5.0 VDC	0.7A	7A	5%	65W
		+24.0 VDC	0.2A	2A	5%	
		-24.0 VDC	0A	0.8A	5%	
DTIPU65-305	90~264 VAC	+5.0 VDC	0.6A	6A	5%	65W
		+24.0 VDC	0.2A	2A	5%	
		-12.0 VDC	0A	0.8A	5%	
DTIPU65-306	90~264 VAC	+3.3 VDC	0.7A	7A	7%	63.1W
		+12.0 VDC	0.6A	3A	5%	
		-5.0 VDC	0A	0.8A	5%	

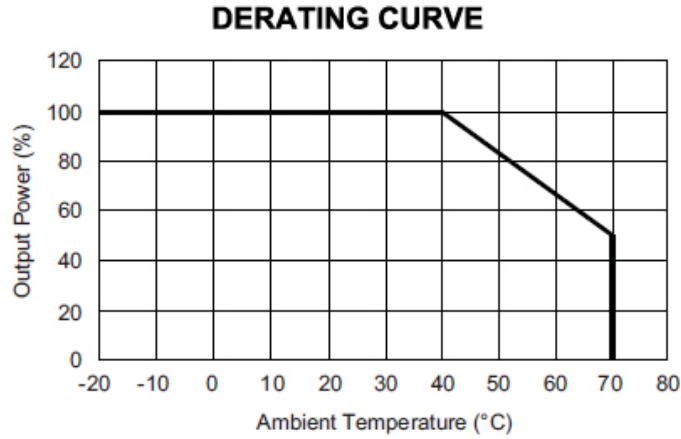
QUAD OUTPUT MODELS

Model Number	Input Voltage Range	Output Voltage	Output Current		Max. Regulation	Max. Output Power
			Min	Max.		
DTIPU65-403	90~264 VAC	+5VDC	0A	3.5A	5%	65W
		+24VDC	0.1A	1.5A	5%	
		+12VDC	0A	0.25A	5%	
		-12VDC	0A	0.15A	5%	

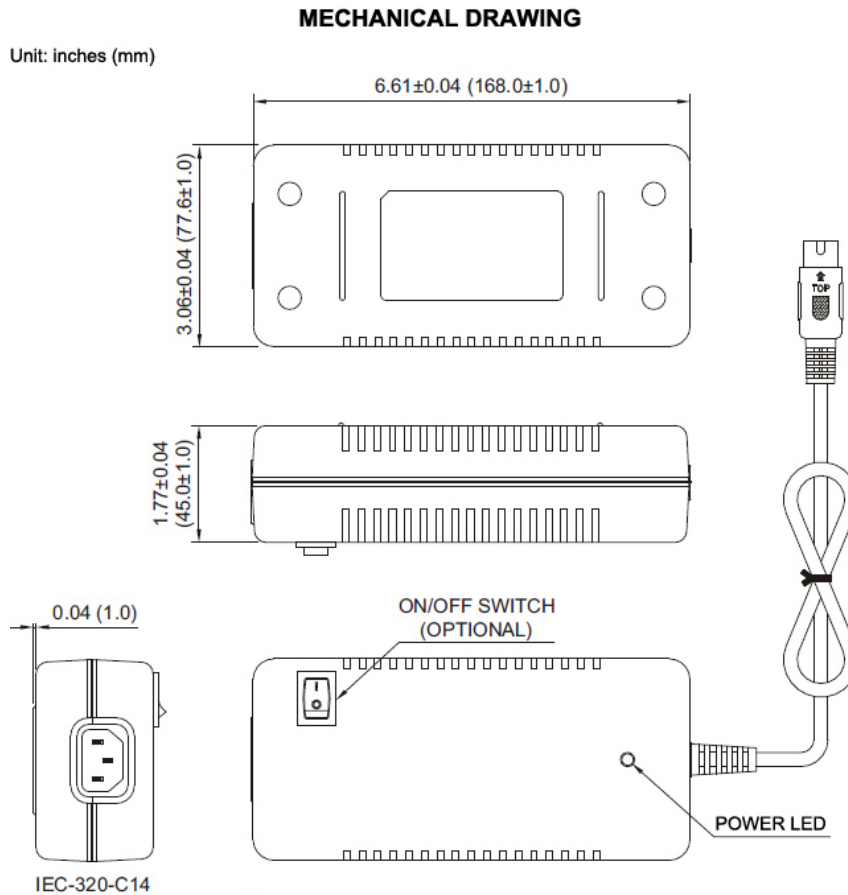
NOTES

- For single output models the output voltage is specified as a range (ex: 40~48VDC); the customer must specify what they would like the output voltage set at.
 - All models have PSE approvals except DTIPU65-215.
 - Models DTIPU65-105~111 have been approved by CEC Level V.
 - To order the supply with an On/Off switch; please add the suffix "SW" to the model number (Ex: DTIPU65-200SW).
 - Optional output connectors available. Please call factory for ordering details.
 - This product is Listed to applicable standards and requirements by UL.
- *Due to advances in technology, specifications subject to change without notice.*

DERATING CURVE



MECHANICAL DRAWING



NOTES:

1. All dimensions are for reference only
2. Weight: 1.26~1.65 lbs (570~750g)
3. Optional On/Off switch available (suffix "SW")
4. Optional output connectors available

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: 2015 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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