



Size: 4.53in x 1.97in x 1.22in (115mm x 50mm x 31mm)

FEATURES

- 70-264VAC Input Voltage Range
- Protection Class I
- 65 Watts Output Power
- High Efficiency
- Efficiency Level VI
- 2xMOPP
- Suitable for BF Application
- IP22 Rating
- IP54 Rated
- Built-In EMI Filter
- High Surge Immunity

- Extremely Low Leakage Current
- Passes LPS
- Short Circuit, Over Voltage, Over Load, and Over Temperature Protection
- IEC 62368-1 Edition 2.0, IEC 62368-1 Edition 3.0, EN 62368-1, UL62368-1, CAN/CSA-C22.2 NO.62368-1-14, IEC 60601-1 Edition 3.2, EN60601-1, ANSI/AAMI ES60601-1: 2005 (R2012), CSA C22.2 NO. 60601-1:14
- IEC-320-C14 AC Inlet Connector
- Designed to Meet ISN & 60335

APPLICATIONS

- Medical
- Telecommunication
- Consumer Electronics
- Industrial

OPTIONS

- OVC III
- IP54
- Withstand 297VAC Surge Input for 2 Minutes

DESCRIPTION

The DTMHP65 series of AC/DC desktop power supplies provides 65 watts of continuous output power in a 4.35" x 1.97" x 1.22" package. This series consists of single output models ranging from 8VDC to 48VDC with a 70~264VAC input voltage range and an IEC-320-C14 AC inlet connector. Some features include high efficiency, IP22 and IP54 rating, and short circuit, over voltage, over load, and over temperature protection. All units are RoHS and Efficiency Level VI compliant and have IEC 62368-1 Edition 2.0, IEC 62368-1 Edition 3.0, EN 62368-1, UL62368-1, CAN/CSA-C22.2 NO.62368-1-14, IEC 60601-1 Edition 3.2, EN60601-1, ANSI/AAMI ES60601-1: 2005 (R2012), CSA C22.2 NO. 60601-1:14 safety approvals.

MODEL SELECTION TABLE										
Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current	Effi Avg.	ciency 10% Load	Output Power	Max. No Load Consumption	Ripple & Noise	Total Regulation	Limited Power Source
DTMHP65-08		8VDC	6.75A	89.0%	79.0%	54W	0.15W	80mVp-p	±5%	х
DTMHP65-09		9VDC	6A	89.0%	79.0%	54W	0.15W	100mVp-p	±5%	x
DTMHP65-12		12VDC	5.42A	89.0%	79.0%	65W	0.15W	100mVp-p	±3%	√
DTMHP65-15		15VDC	4.33A	89.0%	79.0%	65W	0.15W	100mVp-p	±3%	√
DTMHP65-16		16VDC	4.06A	89.0%	79.0%	65W	0.15W	120mVp-p	±3%	√
DTMHP65-18	70.004)/40	18VDC	3.61A	89.0%	79.0%	65W	0.15W	120mVp-p	±3%	√
DTMHP65-19	70-264VAC	19VDC	3.43A	89.0%	79.0%	65W	0.15W	120mVp-p	±3%	\checkmark
DTMHP65-20		20VDC	3.25A	89.0%	79.0%	65W	0.15W	130mVp-p	±3%	\checkmark
DTMHP65-24		24VDC	2.7A	89.0%	79.0%	65W	0.15W	150mVp-p	±2.5%	√
DTMHP65-28		28VDC	2.32A	89.0%	79.0%	65W	0.15W	180mVp-p	±2.5%	√
DTMHP65-30		30VDC	2.16A	89.0%	79.0%	65W	0.15W	200mVp-p	±2.5%	√
DTMHP65-48		48VDC	1.36A	89.0%	79.0%	65W	0.15W	200mVp-p	±2.5%	V



TECHNICAL SPECIFIC					
All specifications	are based on 25°C, Nominal Input Voltage, and Maximum Output Curr We reserve the right to change specifications based on technological	ent unless advances	otherwise	noted.	
SPECIFICATION	TEST CONDITIONS	Min	Тур	Max	Unit
INPUT SPECIFICATIONS			-) -		
Nominal Input Voltage	100/240VAC, Single Phase	100		240	1/40
Input Voltage Range	Derate linearly from 100% load at 90VAC to 70% Load at 70VAC	70		264	VAC
Input Frequency	Sine Wave	47		63	Hz
	Low Line; Vin=115VAC, Full Load			1.5	
Input Current	High Line; Vin=230VAC, Full Load			0.75	Α
	Low Line; Vin=115VAC, Full Load, 25°C, Cool Start			50	
Inrush Current	High Line; Vin=230VAC, Full Load, 25°C, Cool Start			100	Α
OUTPUT SPECIFICATIONS					
Output Voltage			See T	able	
Line Regulation	Full Load, Vin=100~120VAC			0.5	%
Load Regulation	Vin=100~240VAC		See T	able	
Output Power			See T	able	
Output Current			See T	able	
Ripple & Noise (20MHz BW)			See T		
Hold-up Time	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		12		ms
Start-up Time	Full Load, Vin=100~120VAC			3	S
Rise Time	At 115VAC & 230VAC			50	ms
Temperature Coefficient	All Conditions			±0.04	%/°C
No Load Consumption	All Conditions		See T		707 0
PROTECTION			366 1	abic	
Over Load Protection	Hiccup Mode, Non-Latching, Automatic Recovery	110		154	%
Over Voltage Protection	Latch Mode	105		150	%
Short Circuit Protection	Hiccup Mode, Non-Latching, Automatic Recovery				
Over Temperature Protection					
GENERAL SPECIFICATION	· · · · · · · · · · · · · · · · · · ·				
Average Efficiency	CoC v5 (tier2)		See T	able	
	@264VAC Normal Condition		000 1	0.1	_
Earth Leakage Current	@264VAC Single Fault Condition			0.3	mA
ENVIRONMENTAL SPECIFI			<u> </u>	0.0	l.
Operating Temperature	Derating linearly from 100% Load at 40°C to 50% load at 70°C	-40		+70	°C
Storage Temperature	Surrounding Air Temperature	-40		+85	°C
Operating Humidity	Non-Condensing	10		95	%RH
	Non-Condensing	0			%RH
Storage Humidity Operating Altitude		5000		95	
Waterproof & Dustproof		3000			m
Degree			IP22,	IP54	
Vibration	Non-Operating, 5~500Hz, 2.09 grams, 20 min. each 3 axis			2.09	G
	Line-Neutral				G
Surge Voltage	Line-PE & Neutral-PE			2	kV
MTBF	1 million hours based on Telcordia SR-332 @115VAC, Max. Load, and 25°C ambient		1000		khours
PHYSICAL SPECIFICATION	S				
Weight	DTMHP65-20S with a 16AWG, 4FT Standard Cable		7.94oz	(225a)	
Dimensions (L x W x H)		4.53in x 1.97in x 1.22in			
AC Inlet		(115mm x 50mm x 31mm) IEC-320-C14			
	8V-9V Models	AWG	#14, 2FT,		80°C
	12V Models				
Recommended Output	15V-16V Models	AWG#16, 4FT, UL1571, 80°C			
Cable ⁽¹⁾	18V-24V Models		#10, 41 1, #18, 4FT,		
	28V-48V		#10, 41 1, #20, 4FT,		
	∠ ∪	AVVG	mzu, Hil,	JE 1100,	JU U



TECHNICAL 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 We reserve the right to change specifications based on technological advances. Min Typ Max Unit								
SAFETY, EMC, & COMPLIANCE								
Safety Approvals ⁽²⁾		<u> </u>			IEC 62368-1 Edition 2.0 IEC 62368-1 Edition 3.0 EN62368-1 UL62368-1 CAN/CSA-C22.2 No. 62368- 1-14 IEC 60601-1 Edition 3.2 EN60601-1 ANSI/AAMI ES60601-1:2005 (R2012)			
Medical EMC Emission ⁽³⁾			Conducted Radiated Harmonics Flicker Conducted Radiated Harmonics	EN55011 EN55011 EN61000-3-2 EN61000-3-3 EN55032 EN55032 EN61000-3-2	CSA C22.2 No. 60601-1:14 Class B Class B Class B Class B Class B N/A			
	Medical	ESD RS	Flicker EN61000-4-2 EN61000-4-3	EN61000-3-3 15kV Air Discharge, 8KV Discharge Coupling Plane	- A A			
		EFT Surge CS PFMF	EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8	2kV 2kV Line to Line, 4kV Line to Ground 0.15-80(MHz)	A A A			
		Voltage Dips Voltage Interruptions	EN61000-4-11 EN61000-4-11	i) 30% Reduction for 25 cycles at 50Hzii) 95% reduction for 0.5 cycle at 50Hz95% reduction for 250 cycles at 50Hz	A (230VAC)			
EMC Immunity		Radiated Fields in Close Proximity	EN61000-4-39	-	А			
	ITE	ESD	EN61000-4-2	8kV Air Discharge, 4kV Contact Discharge	А			
		RS	EN61000-4-3	80 – 1000 (MHz) 1800, 2600, 3500, 5000 (MHz) (±1%)	Α			
		EFT	EN61000-4-4	2kV	A			
		Surge CS	EN61000-4-5 EN61000-4-6	2kV Line to Line, 4kV Line to Ground 0.15 – 80 (MHz)	A A			
		PFMF	EN61000-4-8	- (IVII 12)	A			
		Voltage Dips	EN61000-4-11	i) 30% Reduction for 25 cycles at 50Hz ii) 95% reduction for 0.5 cycle at 50Hz	A (240VAC)			
		Voltage Interruptions	EN61000-4-11	95% reduction for 250 cycles at 50Hz	В			
Protection Classes					Class I			

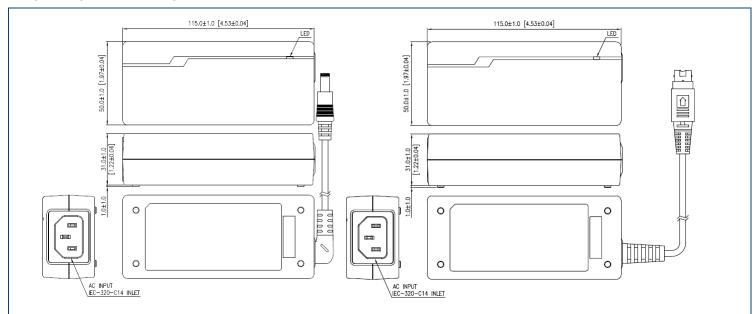
NOTES

- 1. Models are required to use these output cables.
- 2. This product is Listed to applicable standards and requirements by UL.
- 3. The EMC test requires the integration of the switching power supply with the load of an end system. Consequently, variations in the in the application or assembly of the end system will influence the test results.

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



MECHANICAL DRAWING



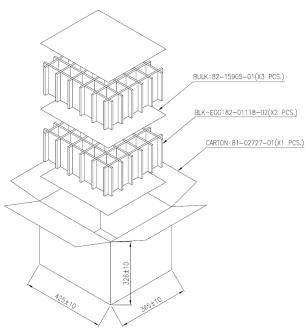
Connectors

Standard Connectors:									
Barrel Female Plug	Plug PN	OD	ID	L	Standard Connection	Wire Material	Wire Type		
2,5 5,5 Center 11,0 Steeve	P01N	5.5	2.5	11	Center = OUT(+) Sleeve = RTN(-) (Tuning Fork Type)	UL1571 UL1185	12V, 15V~16V: 16AWG/4FT 18V~24V: 18AWG/4FT 28V~48V: 20AWG/4FT		
POWER DIN-4 + Lock	POWER DIN-4 + Lock Plug PN			ndard Connec	ction	Wire Material	Wire Type		
	P09B	P1, P2 = OUT P3, P4 = RTN				UL11353	8V~9V: 14AWG*2C/2FT		
Optional Connectors:									
Barrel Female Plug	Plug PN	OD	ID	L	Standard Connection	Wire Material	Wire Type		
2.5 5.5 Center 9.5 Sleeve	P01M	5.5	2.5	9.5	Center = OUT(+) Sleeve = RTN (-)	UL1571	12V, 15V~16V: 16AWG/4FT 18V~24V: 18AWG/4FT		
2,5 5,5 Center	P01S	5.5	2.5	12	(Tuning Fork Type)	UL1185	28V~48V: 20AWG/4FT		
Barrel Angle Female Plug	Plug PN	OD	ID	L	Standard Connection	Wire Material	Wire Type		
2.5 5.5 Center Sleeve	P02M	5.5	2.5	9.5	Center = OUT(+) Sleeve = RTN (-)	UL1571 UL1185	12V, 15V~16V: 16AWG/4FT		
2.5 5.5 Center Sleeve	P02N	5.5	2.5	11	(Tuning Fork Type)		28V~48V: 20AWG/4FT		
DIN-5 Male Plug	Plug PN	Standard Connection				Wire Material	Wire Type		
13.2±0.2 10.0±1.0 Shield	P05B		5	1, P2, P4=RT P3, P5=OUT SHIELD=GNI)	UL2464	12V, 15V~16V: 16AWG/4FT 18V~24V: 18AWG/4FT 28V~48V: 20AWG/4FT		
Please contact factory for more detailed information regarding optional output connectors.									



PACKAGING

Standard Packaging: (UNIT: mm) Power Supplies per Box (Full Box): 50pcs Box Dimensions: L42*W36*H32cm



*The packing information is for reference purposes only. Please reach out to our sales team for confirmation of the packing details.

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.

Contact Wall Industries for further information:

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