



Size: 5.71in x 2.83in x 1.65in (145mm x 72mm x 42mm)

FEATURES

- Designed for BF Application
- Meets 2 x MOPP and Touch Current <100uA
- Level VI Eco-Design
- High Mechanical Torque Start-Up
- RoHS Compliant
- High Efficiency of 89%
- Over Load, Short Circuit, and Over Voltage Protection
- UL60601-1, UL60950-1, CSA C22.2 No. 60950-1 (cUL) TUV EN60601-1, and EN 60950-1 Safety Approvals

DESCRIPTION

The DTSNP-AF8 series of AC/DC desktop power supplies offers a peak of 100 watts of output power in a 5.71" x 2.83" x 1.65" package. This series consists of single output models and has a 90~264VAC input voltage range. Each model has over load, short circuit, and over voltage protection and is compliant to Level VI. This series has UL60601-1, UL60950-1, CSA C22.2 No. 60950-1 (cUL) TUV EN60601-1, and EN 60950-1 safety approvals.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current			Initial Accuracy ⁽³⁾	Output Power ⁽¹⁾⁽²⁾		Efficiency ⁽⁵⁾
			Min.	Rated	Peak		Rated	Peak	
DTSNP-AF87-3	90~264VAC	12V	0A	6A	8.4A	+11.4~+12.1V	72W	100W	89%
DTSNP-AF89-3		24V	0A	3.2A	4.6A	+22.8~25.2V			

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		90		264	VAC
Input Frequency		47		63	Hz
Inrush Current	@230VAC			80	A
No Load Input Power				0.15	W
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Voltage Accuracy		See Table			
Line Regulation	From nominal line at rated load		±10		%
Load Regulation	From 60% rated load		±40		%
Output Power		See Table			
Output Current		See Table			
Hold-Up Time ⁽⁴⁾			16		mS
PROTECTION					
Short Circuit Protection		Automatic Recovery			
Over Load Protection		Automatic Recovery			
Over Voltage Protection		Latch Off			
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature	Derating: 2.5%/°C >40°X	-20		60	°C
Storage Temperature		-20		85	°C
Operation Altitude			5,000		M
GENERAL SPECIFICATIONS					
Efficiency		See Table			
PHYSICAL SPECIFICATIONS					
Weight		16.58oz (470g)			
Dimensions (L x W x H)		5.71in x 2.83in x 1.65in (145mm x 72mm x 42mm)			
SAFETY & EMC CHARACTERISTICS					
Safety Approvals	UL60601-1, UL60950-1, CSA C22.2 No. 60950-1(cUL) ⁽⁶⁾ , TUV EN60601-1, EN60950-1				
EMI	FCC CISPR 22	Class B Level B			
Harmonics	EN61000-3-2	Class A			
EMS	EN61000-4-2, 3, 4, 5, 6, 8, 11				
Energy Saving	EC Code of Conduct for EPS Version (Tier 2)				

NOTES

1. Output Load: Rated 72~77W for convection cooling.
2. At peak load, output can last for 5 seconds without shutdown.
3. Each output is checked to be within voltage accuracy in 60% rated load condition.
4. 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.
5. Efficiency measured at 25%, 50%, 75%, 100% of rated load and 115VAC/239VAC input.
6. This product is Listed to applicable standards and requirements by UL.

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

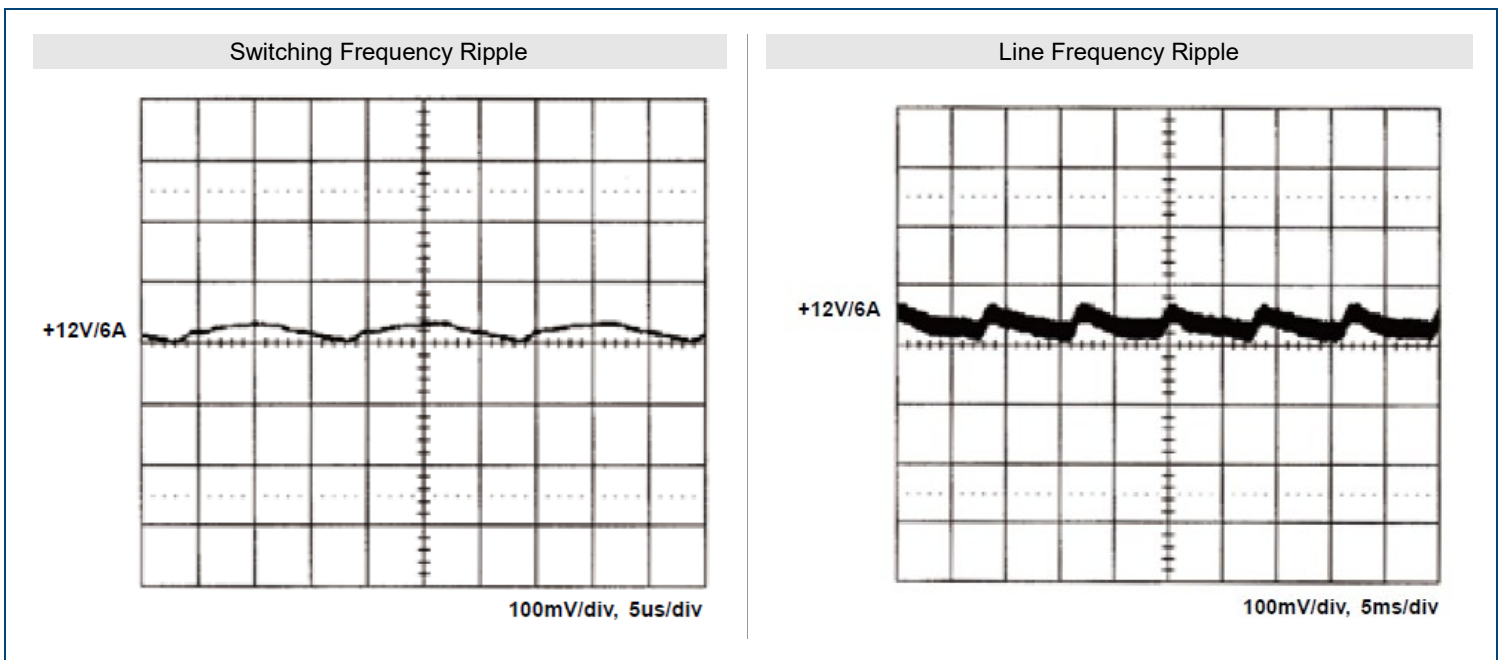
MECHANICAL DRAWINGS

Notes:

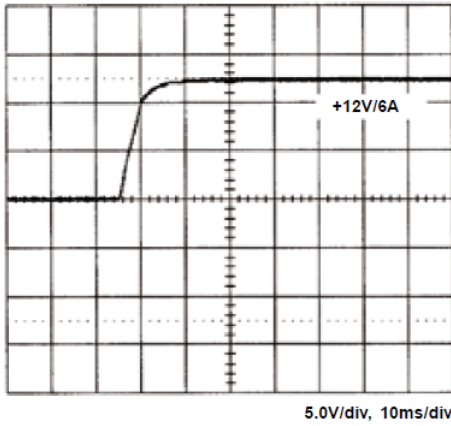
1. Output Connector:

PIN	VOLTAGE
1	+V
3	RTN
4	RTN
2	+V
	EARTH
2. Input Socket: C14
3. Cable Length is approx. 1.5m
4. Power ON indication LED on top of box
5. Box is black
6. Gross weight approx. 12kg/carton, 20 units/carton
 Carton size: 503mm x 362mm x 300mm

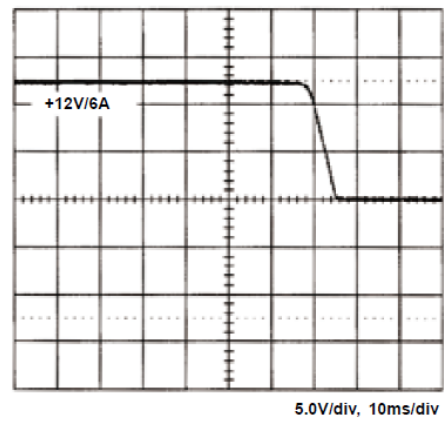
PERFORMANCE CURVES



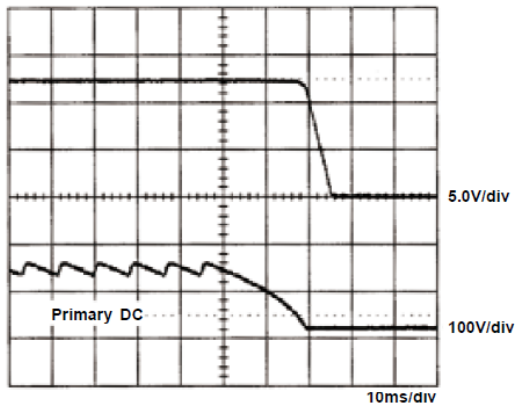
Output Turn On Wave Form



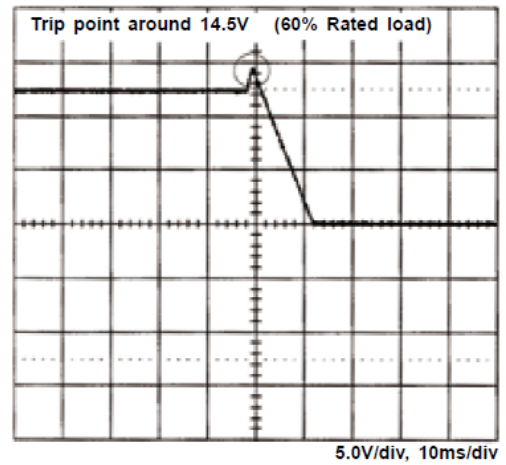
Output Turn Off Wave Form



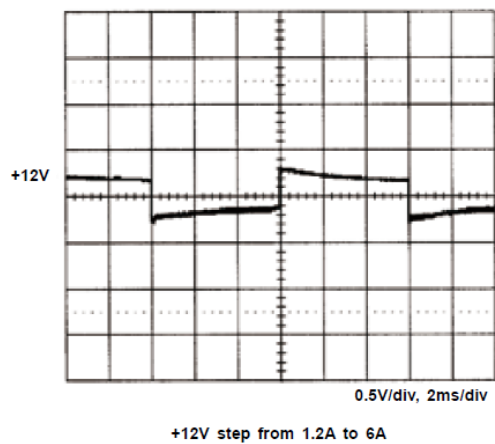
Hold-Up Time



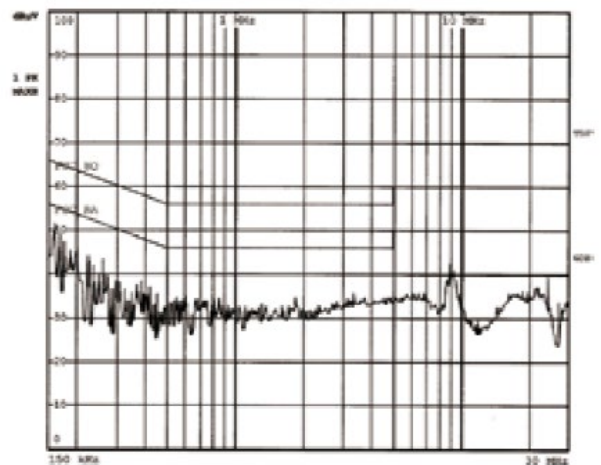
Over Voltage Protection

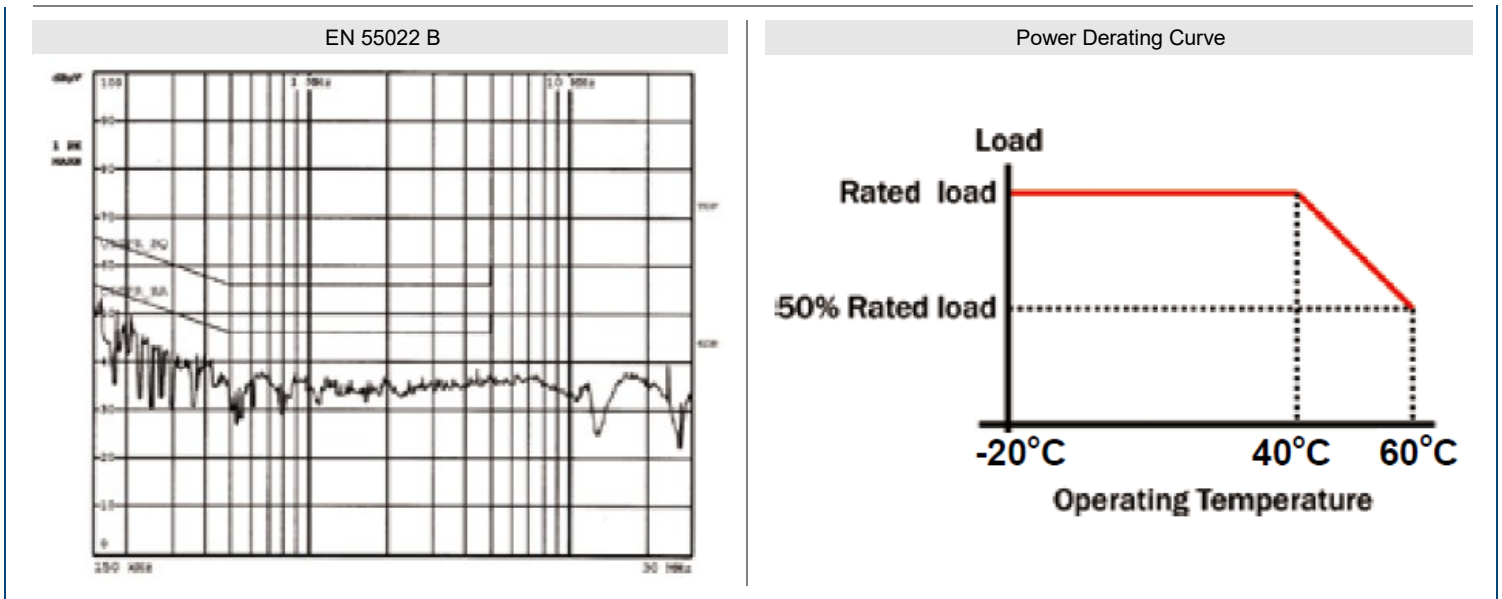


+12V Step Response



FCC B





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:

Phone: ☎(603)778-2300
Toll Free: ☎(888)597-9255
Fax: ☎(603)778-9797
E-mail: sales@wallindustries.com
Web: www.wallindustries.com
Address: 37 Industrial Drive
Exeter, NH 03833

©2019 Wall Industries, Inc. Specifications subject to change without notice. Wall Industries is not responsible for typographical errors. The information contained herein is for informational purposes only. This information is provided by Wall Industries and we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the information contained in this document for any purpose. All product and manufacturer names are trademarks or registered trademarks of their respective companies.