

Size: 5.75in x 2.97in x 1.69in (146mm x 75.5mm x 43mm)

OPTIONS

- Output Connectors
- Output Voltage
- Input Inlet

FEATURES

- Universal Input Voltage of 100~240VAC
- Meets Energy Star Level VI
- Single Outputs
- Low Leakage Current
- Short Circuit, Over Voltage, and Over Current Protection
- UL: 60950-1; CSA C22.2, EN60950-1, IEC60905-1, and J60950-1 Safety Approvals
- Output Voltage Ranging from 11~58VDC
- High Efficiency of 87%

APPLICATIONS

- PC
- Charger

DESCRIPTION

The DTGPSU70 series of AC DC desktop power supplies provides up to 70 watts of output power. This series consists of single output models ranging from 11 to 58VDC and an input voltage of 100~240VAC. Two types of input inlets are available for this series: C14 or C6. Each model has short circuit, over voltage, and over current protection, and has UL: 60950-1; CSA C22.2, EN60950-1, IEC60905-1 and J60950-1 safety approvals. This series is Energy Star Level VI compliant. Please call factory for ordering details.

MODEL SELECTION TABLE

Model Number ⁽¹⁾	Input Voltage Range	Output Voltage	Output Current	Ripple & Noise	Output Power	Efficiency ⁽²⁾	Energy Level ⁽³⁾	Measured at Output	
DTGPSU70A-3	100~240VAC	11~13VDC	6.37~5.39A	120mV	70W	87%	VI	12	
DTGPSU70A-4		13~16VDC	5.39~4.38A	120mV	70W	87%	VI	15	
DTGPSU70A-5		16~21VDC	4.38~3.34A	180mV	70W	87%	VI	18	
DTGPSU70A-6		21~27VDC	3.34~2.60A	180mV	70W	87%	VI	24	
DTGPSU70A-7		27~33VDC	2.60~2.13A	240mV	70W	87%	VI	32	
DTGPSU70A-8		33~58VDC	2.13~1.22A	240mV	70W	87%	VI	48	
DTGPSU70C-3		100~240VAC	11~13VDC	6.37~5.39A	120mV	70W	87%	VI	12
DTGPSU70C-4			13~16VDC	5.39~4.38A	120mV	70W	87%	VI	15
DTGPSU70C-5	16~21VDC		4.38~3.34A	180mV	70W	87%	VI	18	
DTGPSU70C-6	21~27VDC		3.34~2.60A	180mV	70W	87%	VI	24	
DTGPSU70C-7	27~33VDC		2.60~2.13A	240mV	70W	87%	VI	32	
DTGPSU70C-8	33~58VDC		2.13~1.22A	240mV	70W	87%	VI	48	

SPECIFICATIONS

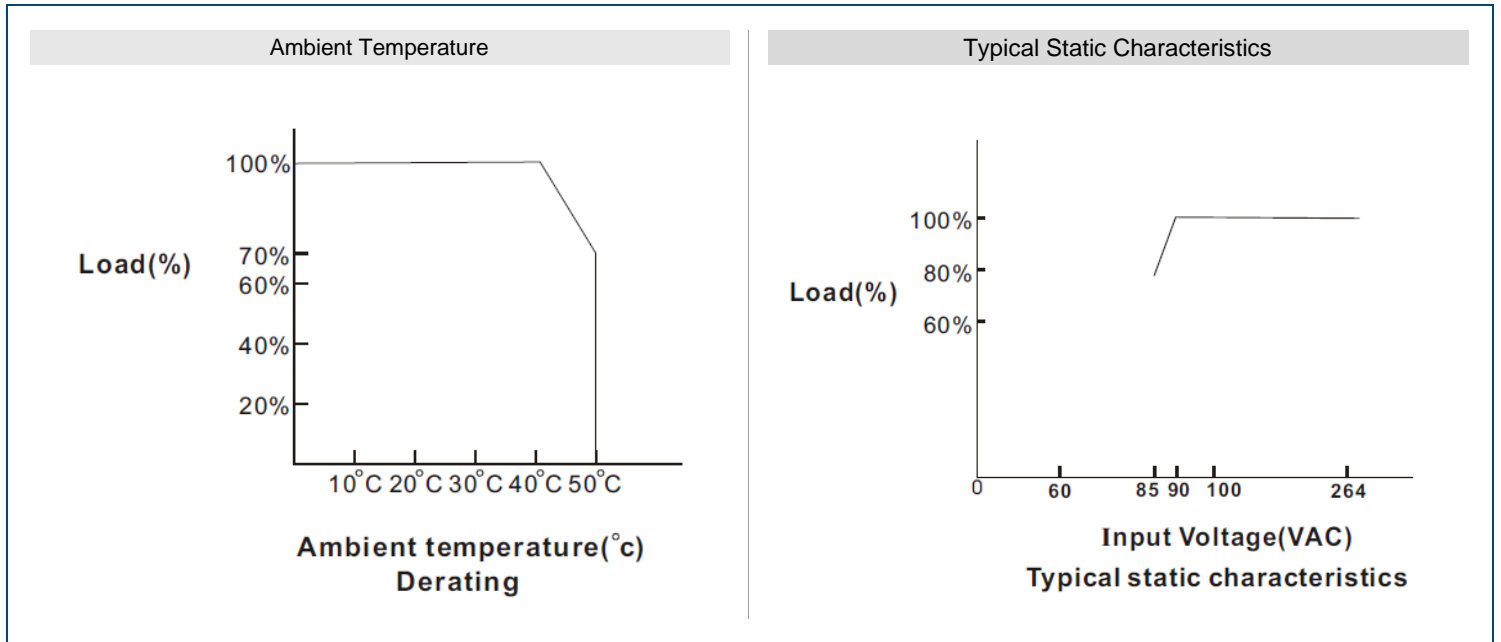
All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.
 We reserve the right to change specifications based on technological advances.

SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		100		240	VAC
Input Frequency		50		60	Hz
Input Current		1.8		0.8	A
Leakage Current				0.1	mA
Inrush Current	@230VAC at 25°C cold start		100		A
OUTPUT SPECIFICATIONS					
Output Voltage		See Table			
Line Regulation	Any input voltage change between input voltage range			±1	%
Load Regulation	Variations from minimum to maximum output current.		±5		%
Output Power		See Table			
Output Current		See Table			
Ripple & Noise (20MHz bandwidth)		See Table			
Transient Response	Maximum excursion of 4% or better on all models. Recovering to 1% of final value within 500uS after a 25% step load change.				
Hold-Up Time		8			mS
Temperature Coefficient	All Outputs			±0.04	%/°C
PROTECTION					
Short Circuit Protection		Hiccup Mode, Automatic Recovery			
Over Voltage Protection	Protected by Zener diode.	110		140	%
Over Current Protection	Hiccup Mode, Automatic Recovery	110			%
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		-20		40	°C
Storage Temperature		-40		85	°C
Relative Humidity	Non-Condensing	5		95	%
MTBF	@Full Load at 25°C ambient	100,000			Hours
GENERAL SPECIFICATIONS					
Efficiency		See Table			
Insulation Resistance	From Input to Output	50			MΩ
Withstand Voltage	From Input to Output		4242		VDC
Derating	Derated from 100% at +40°C linearly to 50% at 70°C				
PHYSICAL SPECIFICATIONS					
Weight		13.05~13.23oz (370~375g)			
Dimensions (L x W x H)		5.75in x 2.97in x 1.69in (146mm x 75.5mm x 43mm)			
SAFETY & EMC CHARACTERISTICS					
Safety Approvals		UL: 60950-1; CSA C22.2 EN60950-1 IEC60905-1 J60950-1			
EMC		CE: Emission: EN55022; EN61000-3-2,3 Immunity: IEC61000-4-2,3,4,5,6,11 FCC 47 CFE Part 15 Subpart B			

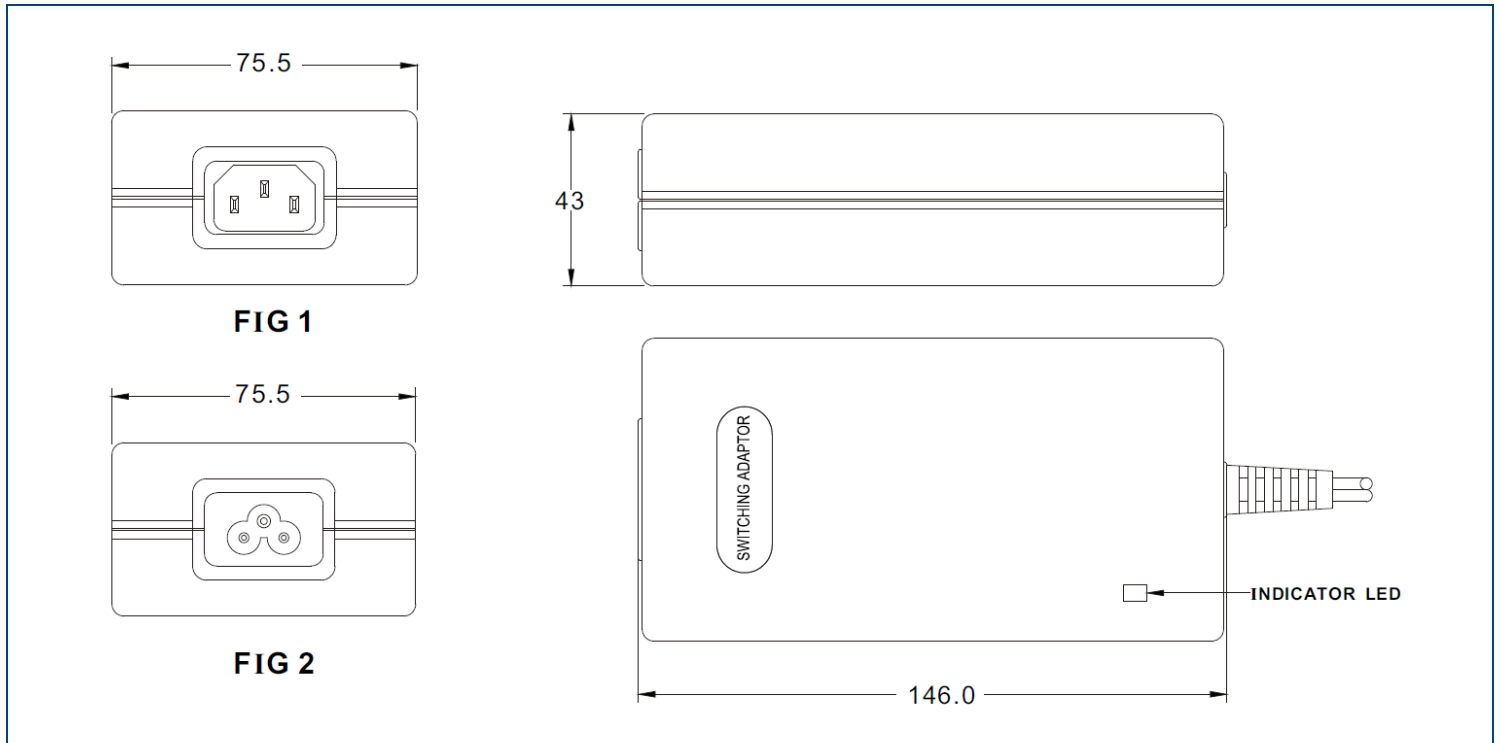
NOTES

- (1) "A" in model name indicates Type A inlet: C14, and "C" in model name indicates Type C inlet: C6.
- (2) Average Efficiency: Averages the efficiency at 25, 50, 75, 100% of max. rated output current
- (3) Standard Output Cable:
 11~16V: UL1571, 14AWG, 1M
 16~21V: UL1571, 16AWG, 1M
 21~48V: SPT-1, 18AWG, 6FT
- (4) Optional output connectors available.

DERATING CURVES



MECHANICAL DRAWINGS



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.

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