



Size: 3.46in x 1.97in x 1.81in (91.1mm x 45.4mm x 27.5mm)

FEATURES

- Level VI Compliant
- Input Voltage Range of 90~264VAC
- Drop In Tested
- RoHS Compliant
- Over Current and Short Circuit Protection
- Burn In Tested
- UL, CUL, FCC, CE, GS, KC, PSE, CCC, SAA, C-Tick, and CB Safety Approvals
- C8 AC Inlet

DESCRIPTION

The DTCGSW30 series of AC DC desktop power supplies offers 15~30 watts of continuous output power. This series consists of single output models with an input voltage range of 90~264VAC and output voltages ranging from 5~12V. This series features a C8 AC inlet, Energy Level VI compliance, and models have been both drop in and burn in tested. All models are protected against over current and short circuit conditions, and all have U UL, CUL, FCC, CE, GS, KC, PSE, CCC, SAA, C-Tick, and CB safety approvals. Please call factory for ordering details.

MODEL SELECTION TABLE

Model Number	Input Voltage Range	Output Voltage	Output Current		Ripple & Noise ⁽¹⁾	Output Power	Efficiency Level
			Min.	Max.			
DTCGSW30-090-2000	90~264VAC	9V	0mA	2000mA	90mV	15~30 Watts	Level VI
DTCGSW30-090-3000		9V	0mA	3000mA	90mV		Level VI
DTCGSW30-120-1500		12V	0mA	1500mA	120mV		Level VI
DTCGSW30-120-2000		12V	0mA	2000mA	120mV		Level VI
DTCGSW30-120-2500		12V	0mA	2500mA	120mV		Level VI
DTCGSW30-180-1000		18V	0mA	1000mA	150mV		Level VI
DTCGSW30-240-1000		24V	0mA	1000mA	150mV		Level VI

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.

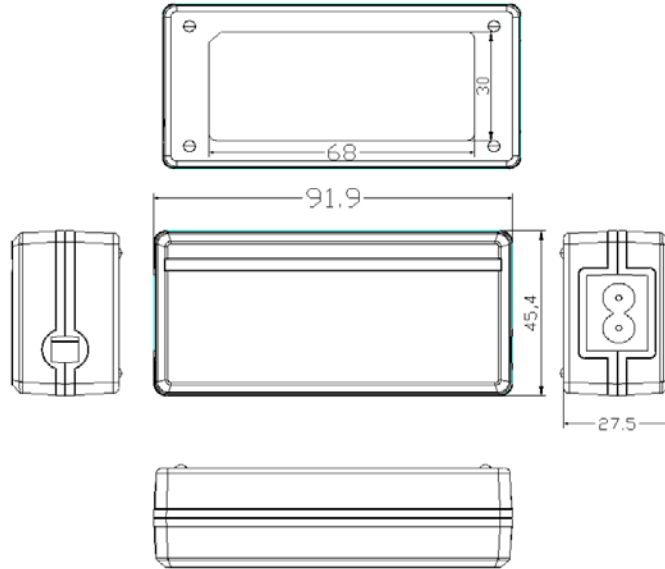
SPECIFICATION	TEST CONDITIONS	Min	Typ	Max	Unit
INPUT SPECIFICATIONS					
Input Voltage Range		90	100~240	264	VAC
Input Frequency		47	60/50	63	Hz
Input AC Current				1.2	A
Inrush Current				40	A
Standby Power	No Load		≤0.1		W
OUTPUT SPECIFICATIONS					
Output Voltage				See Table	
Line Regulation		-1		+1	%
Load Regulation		-5		+5	%
Output Power				See Table	
Output Current				See Table	
Minimum Load		0			A
Ripple & Noise (20MHz bandwidth)				240	mVp-p
Turn-On Delay Time	@100VAC to 240VAC Input & Full Load			3	S
Hold-Up Time	@ Full Load & 115VAC/60Hz; Input will turn off at worst case	10			mS
	@ Full Load & 230VAC/50Hz; Input will turn off at worse case	20			
Rise Time	@ Rated Load			20	mS
Fall Time	@ Full Load			20	mS
Overshoot/Undershoot	When the power is on or off			10	%
Transient Response	All output voltages for load step from 25% to 50% to 25%, 50% to 75% to 50% R/S: 0.25A/uS,		200		uS
Dynamic Response Overshoot			5		%
PROTECTION					
Short Circuit Protection	The input power will decrease when the output rail shorts, the power supply will not damage and will self-recover when the fault condition is removed			Automatic Recovery	
Over Current Protection	The output will hiccup when the over current are applied to the output rail and shall self-recovery when the fault condition is removed.			Automatic Recovery	
Over Current Point Limited	100-240VAC	5V Models		<7	A
		7.5V Models		<5.5	
		9V (2.5A) Models		<5	
		9V (3A) Models		<6.5	
		12V Models		<4	
ENVIRONMENTAL SPECIFICATIONS					
Operating Temperature		10		40	°C
Humidity		5		95	%RH
Storage Temperature		-20		80	°C
Temperature Coefficient			0.05		%/°C
Cooling				Convection	
MTBF	@25°C ambient temperature max. working load, according to MIL-HDBK-217	50,000			Hours
GENERAL SPECIFICATIONS					
Drop In	Height: 1m; the product should be felled off on the hardwood with the thickness of 20mm, and the hardwood should be put on a cement base on or the ground without flexibility. Apply two times on all surfaces. Apply two times on all corners.				
Burn-In	The power supply will be burned-in for 4 hours under normal input and 80% rated load at 40°C±5°C				
Dielectric Strength (Hi-pot)	Primary to Secondary:	3000VAC/ 10mA Max. /60 Seconds			
	Primary to Secondary:	3300VAC/ 5mA Max. /3S			
Leakage Current	@264VAC/50Hz			0.25	mA
Insulation Resistance	Primary to Secondary add 500VDC Test Voltage	50			MΩ
PHYSICAL SPECIFICATIONS					
Weight				Approx. 5.29oz (150g)	
Dimensions (L x W x H)				3.46in x 1.97in x 1.81in (91.9mm x 45.4mm x 27.5in)	

SPECIFICATIONS						
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SPECIFICATION	TEST CONDITIONS		Min	Typ	Max	Unit
SAFETY & EMC CHARACTERISTICS						
Regulatory Standards ⁽³⁾	Type	Country	Standard			
	CE	Europe	EN60950-1			
	FCC	USA	UL60950			
	SAA	Australia	AS/NZ 60950.1			
EMI Standards	5V-9V Models	EN55022 EN61000-3-2 FCC Part15	Class B			
ESD	EN61000-4-2		Discharge Characteristic	Test Level	Test Criteria	
			Air Discharge	±8KV	B	
			Contact Discharge	±4KV	B	
Radiated Electromagnetic Field Susceptibility	EN 61000-4-3		Test Level	Test Criteria		
			3V/m (r.m.s)	A		
			80-1000MHz			
Electric Fast Transients (burst) Immunity Requirement	EN 61000-4-4		Coupling	Test Level	Test Criteria	
			AC-Input	0.5KV	A	
			AC-Input	1KV	B	
Surge Capability Requirement	EN 61000-4-5		Surge Voltage	Test Criteria		
			Common Mode ±2KV	A		
			Differential Mode ±1KV			
Induced Radio Frequency Fields Conducted Disturbances Immunity	EN 61000-4-6		Test Level	Test Criteria		
			3V	A		
			0.15-80 MHz, 80%AM (1KHz)			
Assessment Criteria	Acceptance Criteria		Performance			
	A		Agreed operational behavior within the specified limits			
	B		Time limited functional diminishment or malfunction during the tests is permitted. The function is self-reactivated by the unit following completion of the tests.			
	C		Malfunction is permitted. The function can be reactivated either by reconnection to the mains or by operator intervention.			

NOTES

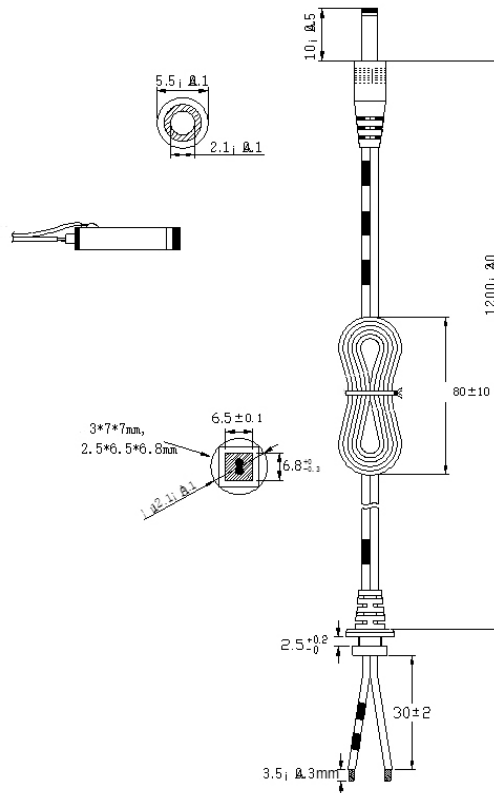
- (1) Ripple and Noise is measured by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis capacitor. (Test under the condition of rated input and rated output)
- (2) Efficiency measured Nominal input. Efficiency indicated is minimum.
- (3) Regulatory standards for 5V-9V Models

MECHANICAL DRAWINGS

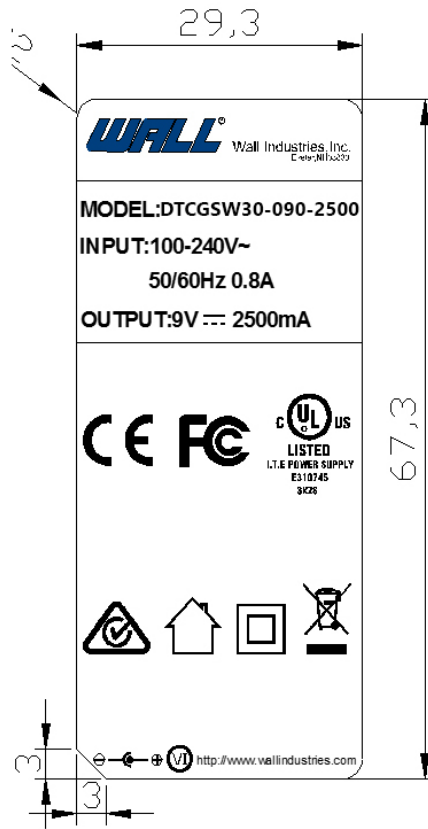


PC + ABS Temperature: 95°C
 PC Material compliance with the ball pressure test requirements

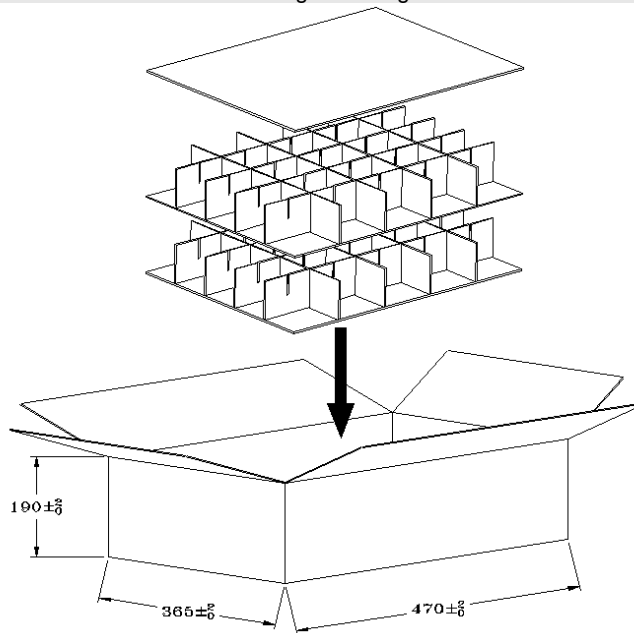
DC Cord Drawing



Label Drawing



Package Drawing



Packing Details: 90pcs/carton, 12.5kg/carton, external carton size: 51cm x 39cm x 22cm

COMPANY INFORMATION

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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:

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