

DTCGSW30 SERIES 15~30 Watts AC DC Desktop Power Supplies Single Output



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

FEATURES

Rev C

- 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.		Output Fower	Efficiency Level	
DTCGSW30-090-2000		9V	0mA	2000mA	90mV		Level VI	
DTCGSW30-090-3000	90~264VAC	9V	0mA	3000mA	90mV		Level VI	
DTCGSW30-120-1500		12V	0mA	1500mA	120mV	-	Level VI	
DTCGSW30-120-2000		12V	0mA	2000mA	120mV	15~30 Watts	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		Itage, and Maximum Output Current unle fications based on technological advance		ise noted.				
SPECIFICATION		ONDITIONS	Min	Тур	Max	Unit		
NPUT SPECIFICATIONS								
nput Voltage Range			90	100~240	264	VAC		
nput Frequency			47	60/50	63	Hz		
nput AC Current					1.2	A		
nrush Current					40	A		
					40			
Standby Power	No Load			≤0.1		W		
	1				Tabla			
Output Voltage			1	See	Table	%		
_ine Regulation ₋oad Regulation			-1 -5		+1 +5	%		
Output Power			-5	S 00	Table	70		
Output Power Output Current					Table			
Minimum Load			0	366	Table	Α		
			0		240			
Ripple & Noise (20MHz bandwidth)					-	mVp-p		
Turn-On Delay Time	@100VAC to 240VAC Input & Full Lo				3	S		
Hold-Up Time	@Full Load &115VAC/60Hz; Input w		10			mS		
•	@Full Load &230VAC/50Hz; Input with	Il 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 50% R/S: 0.25A/uS,	25% to 50% to 25%, 50% to 75% to		200		uS		
Dynamic Response Overshoot PROTECTION				5		%		
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	Automatic Recovery					
	shall self-recovery when the fault condition is removed. 5V Models			<7				
		7.5V Models		<5.5		-		
Over Current Point Limited	100-240VAC	9V (2.5A) Models		<5		А		
	100-240 VAC	9V (3A) Models		<6.5				
		12V Models		<4		_		
ENVIRONMENTAL SPECIFICATION	IS			T				
Operating Temperature			10		40	°C		
Humidity			5		95	%RH		
Storage Temperature			-20		80	°C		
Temperature Coefficient				0.05		%/°C		
Cooling					ection			
MTBF	@25°C ambient temperature max. we	orking load, according to MIL-HDBK-217	50,000	_		Hours		
GENERAL SPECIFICATIONS								
Drop In	the ground without flexibility. Apply tw	led off on the hardwood with the d should be put on a cement base on or vo times on all surfaces. Apply two times						
Burn-In	on all corners. The power supply will be burned-in for rated load at 40°C±5°C	or 4 hours under normal input and 80%						
		Primary to Secondary: Primary to Secondary:			3000VAC/ 10mA Max. /60 Second			
Dielectric Strength (Hi-pot)	Primary to Secondary:				3300VAC/ 5mA Max. /3S			
_eakage Current	@264VAC/50Hz		Ū		0.25	mA		
nsulation Resistance	Primary to Secondary add 500VDC 1	est Voltage	50			MΩ		
PHYSICAL SPECIFICATIONS	, ,,,,,							
Veight				Approx. 5.	29oz (15	0g)		
	×			3.46in x 1.97in x 1.81in				
Dimensions (L x W x H)				.9mm x 45				

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SPECIFICATIONS						
All specifications	s are based on 25°C, Nominal Input Vo			ise noted.		
	We reserve the right to change specif			-		
SPECIFICATION	TEST CONDI	HONS	Min	Typ Ma	x Unit	
SAFETY & EMC CHARACTERISTIC				Standard		
		CE Country				
Regulatory Standards ⁽³⁾	CE	EN60950-1				
o ,	FCC	UL60950 ⁽⁴⁾ AS/NZ 60950.1				
	SAA	SAA Australia				
		EN55022				
EMI Standards	5V-9V Models	EN61000-3-2				
		FCC Part15				
		Discharge	Test Level	Test Criteria		
ESD	EN61000-4-2	Characteristic	±8KV	В		
			Air Discharge Contact Discharge	±orv ±4KV	B	
		Test Level		st Criteria		
Radiated Electromagnetic Field	EN 61000-4-3		3V/m (r.m.s)	16	Si Chiena	
Susceptibility	EN 01000-4-3		80-1000MHz	Α		
		Coupling	Test Level	Test Criteria		
Electric Fast Transients (burst)	EN 64000 4 4					
Immunity Requirement	EN 61000-4-4	AC-Input	0.5KV	A		
			AC-Input	1KV	B	
				st Criteria		
Surge Capability Requirement	EN 61000-4-5	Common Mode ±2KV		А		
		Differential Mode ±	IKV			
Induced Radio Frequency Fields		Test Level	Te	Test Criteria		
	EN 61000-4-6	3V		1		
Conducted Disturbances Immunity	LIN 01000-4-0	0.15-80 MHz, 80%AM		А		
		(1KHz)				
	Acceptance C	riteria	P	erformance		
		Agreed operational behavior within the specified				
Assessment Criteria	A	limits				
		Time limited functional diminishment or				
	В	malfunction during the tests is permitted. The				
Assessment Ontena	В	function is self-reactivated by the unit following				
		completion of the tests.				
		Malfunction is permitted. The function can be				
	C	reactivated either by reconnection to the mains				
			by operator intervention.			

NOTES

Ripple and Noise is measured by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 10uF electrolysis (1) capacitor. (Test under the condition of rated input and rated output) Efficiency measured Nominal input. Efficiency indicated is minimum.

(2)

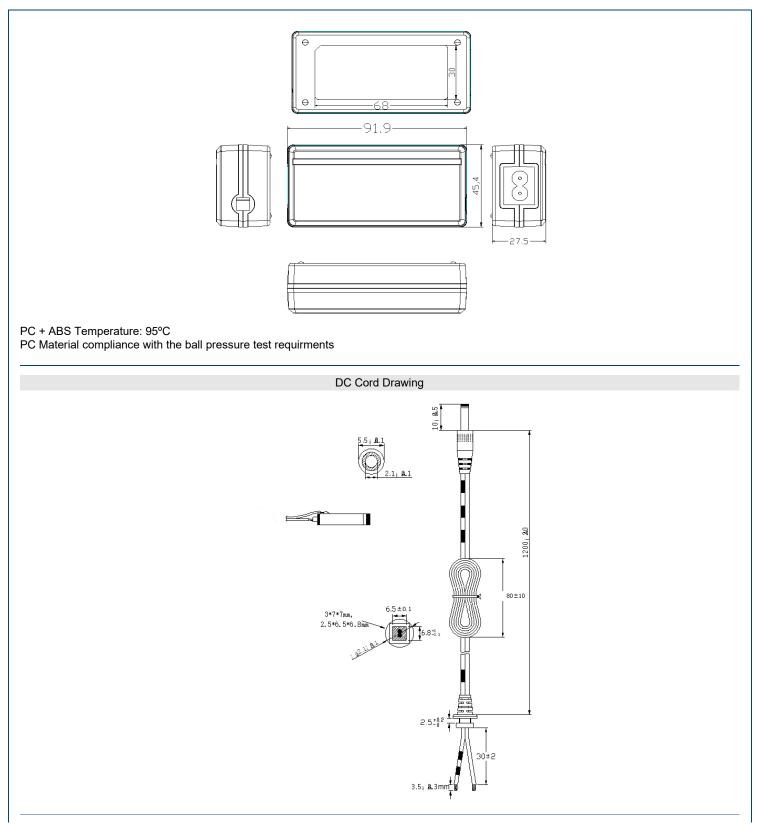
Regulatory standards for 5V-9V Models

(3) (4) This product is Listed to applicable standards and requirements by UL.

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



MECHANICAL DRAWINGS

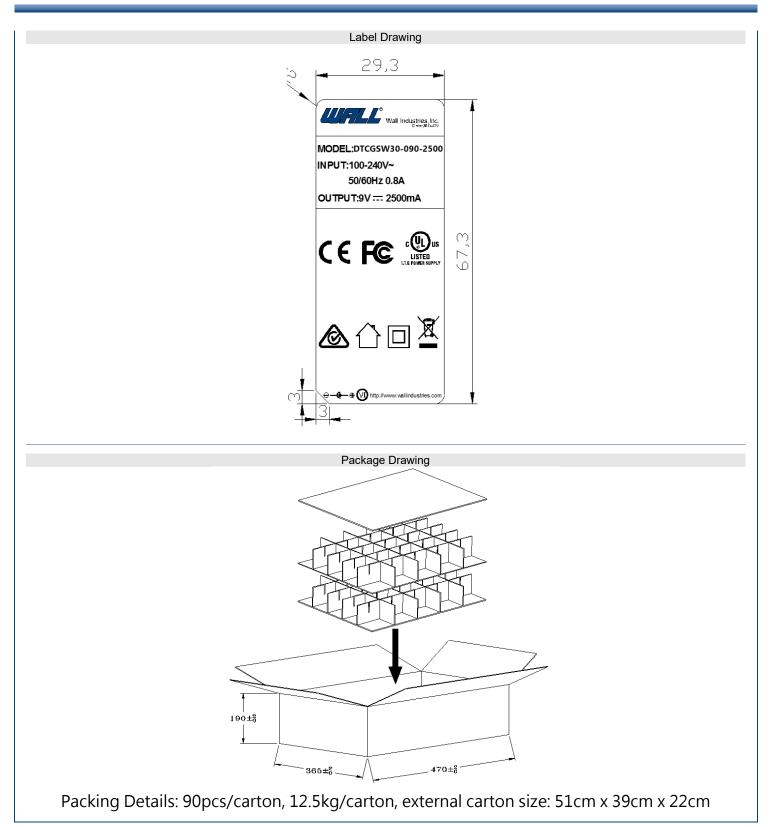


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COMPANY INFORMATION

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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