























Features

- Constant voltage.
- Universal input voltage 90~264Vac.
- High efficiency, high reliability and long lifetime.
- Air cooling.
- Working temperature:-30°C ~+70°C.
- Protection: over load, over voltage, over temperature, short circuit, etc.
- Typical efficiency up to 89.5%.
- No load power comsumption <0.5W.
- Compliance to RoHS/REACH Environmental standards.
- 100% Full load burn-in test.
- 3 years warranty.

Mechanical Equipment

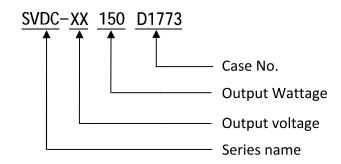
Application

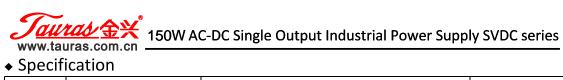
- Industrial Automation Equipment
- Industrial Electrical Equipment
- Handheld Electronic Devices

Description

The SVDC-XX150D1773 series is a 150W single output industrial power supply with height at 30mm. This series has a wide input voltage range and can be used for both AC and DC. The metal mesh shell structure enhances the heat dissipation capability and can work normally in a temperature range of -30°C to +70°C without a fan. Providing a no-load power consumption of less than 0.5W, the terminal system can easily meet international energy standards. It provides multiple protection and anti-5G vibration capabilities, built-in EMI filter components, complies with CISPR32/EN55032 CLASS B. Good electromagnetic compatibility (EMC) characteristics protect terminal electronic equipment from electromagnetic interference.

Model Encoding

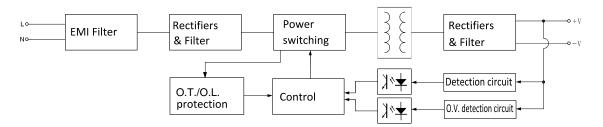




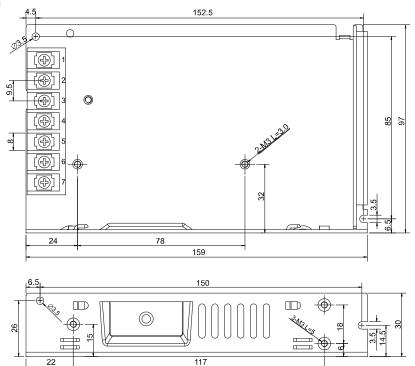
Model		SVDC-12150D1773	SVDC-24150D1773		
IVIOGEI	DC voltage	12V	24V		
	Rated current	12.5A	6.25A		
	Current range	0~12.5A	0~6.25A		
	Rated power	150W	150W		
	Efficiency (Typ.)	88.0%	89.5%		
	Voltage adj. range *8	10.2~13.8V	21.6~28.8V		
Output	Max.capacitive load	10000uF	2400uF		
	Voltage tolerance *3	±4.0%	±2.0%		
	Line regulation	±1.0%	±0.5%		
	Load regulation	±2.0%	±1.0%		
	Ripple & noise (max.) * (150mVp-p	240mVp-p		
	Setup, rise time *®	2000ms, 30ms (at full load)			
	Hold up time (Typ.)	15ms 230VAC/115VAC (at full load)			
Input	Voltage range *②	90°264VAC or 127°374VDC			
	Frequency range	47~63Hz			
	AC current	Max.3.71A			
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	Inrush current (Typ.) Leakage current	Cold start: 60A/230VAC <0.75mA/240VAC			
	Leakage current				
	Over load	105%~145% of the rated power Protection type: hiccup mode, recovers automatically after load reduced.			
Drotostion		13.8~18.0V	28.8~36.0V		
Protection	Over voltage				
		Protection type: hiccup mode, recovers automatically after fault condition removed.			
	Over temperature	Ta: 55°C-65°C Protection type: shut down O/P voltage, recovers automatically after temperature goes down.			
	Working temp.	-30~+70°C Refer to " Derating curve"	, ,		
	Working humidity	20~90% RH, non-condensing			
Environment					
	Temp. coefficient	±0.05% °C (-30°C~+50°C)			
	Vibration	10~500Hz, 5G 10 min./1 cycle, 60 min. each along X. Y, Z axes.			
	Soldering temp.	Wave soldering: 265℃, 5s (max.); manuel welding: 390℃,3s (max.)			
	Operation height *®	2000 meters			
	Safety standards	Compliance to IEC/EN/UL/BS62368-1, GB4943.1,EN61558-1,EN60335-1			
Safety	Withstand voltage	I/P-O/P:4KVAC			
	Isolation resistance	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH			
	Conduct emission	CISPR32/EN55032 CLASS B			
EMC	Radiated emission	CISPR32/EN55032 CLASS B			
Emission	Harmonic current	IEC/EN61000-3-2 Class A			
	Electrostatic Discharge	IEC/EN61000-4-2 Contact:±6KV/AIR:±8KV perf.Criteria A			
	Radiated immunity	IEC/EN61000-4-3 10V/m perf.Criteria A			
EMC	Electrical Fast Transient/Burst Immunity	IEC/EN61000-4-4 ±2KV perf.Criteria A			
	Surge immunity		f.Criteria A		
	Conducted interference immunity	IEC/EN61000-4-6 10Vr.m.s perf.criteria A			
	Voltage dips, sags and short	· ·			
	interruptions immunity	IEC/EN61000-4-11 0%,70% perf. Criteria B			
Others	MTBF	>200K			
	Warranty	3 years			
	Dimension	159.0mm(L)*97.0mm(W)*30.0mm(H)			
	Packing	346mm*315mm*200mm; 0.392kg; 11.76kg/30pcs			
	All parameters NOT specially mentioned are	measured at 230VAC input, rated load and 25°C of ambient temperature.			
Notes	2) Derating may be needed under low input voltages. Please check the static characteristics for more details. 3) Tolerance: includes set up tolerance, line regulation and load regulation. 4) Ripple & noise are measured at 20MHZ of bandwidth by using twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 5) The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-confirm EMC Directive on the complete installation. 6) The start time was tested under the situation of cold start, continuous switching on/off may raise the start time. 7) Input current and safety requirements have slightly different parameters due to different certifications. 8) When the total power remains unchanged and the output voltage is increased, the output current should be reduced accordingly.				
	(B) When the total power remains unchanged and the output voltage is increased, the output current should be reduced accordingly. (G) When the altitude exceeds 2000 m (6500ft), the operating environment temperature decreases at a rate of 3.5°C /1000 m.				



◆ Block Diagram



◆ Case Dimension

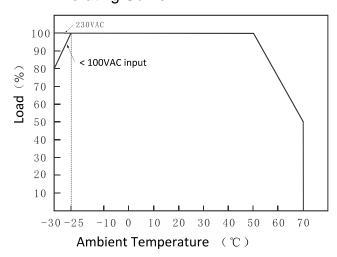


Pin No.	Pin function	Pin No.	Pin function
1	AC/L	4,5	-V
2	AC/N	6,7	+V
3	FG⊥		

Note:

Dimension unit: mm Unmarked tolerance: ± 1.00

◆ Derating Curve



◆ Input Derating Curve

