





















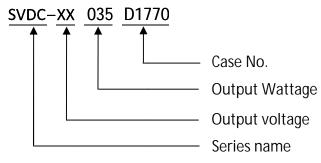




- ◆ Features
- Constant voltage
- Universal input voltage 90~264Vac
- High efficiency, high reliability and long lifetime.
- Air cooling
- Working temperature:-30°C ~+70°C
- Protection: over load, over voltage, over temperature, short circuit, etc.
- Typical efficiency up to 89.5%
- No load power comsumption <0.2W;
- Compliance to RoHS/REACH Environmental standards
- 100% Full load burn-in test
- 3 years warranty
- Description

The SVDC-XX035D1770 series is a 35W 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 0.2W, 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



Application

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

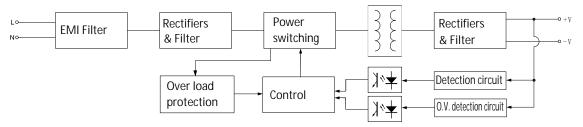


◆ Specification

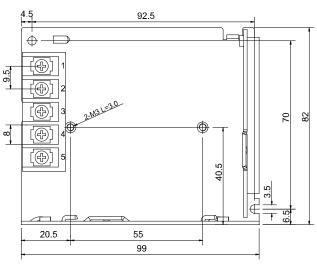
◆ Specing	Jation				
Model		SVDC-12035D1770	SVDC-12035D1770		
	DC voltage	12V	24V		
	Rated current	2.92A	1.46A		
	Current range	0~2.92A	0~1.46A		
Output	Rated power	35W	35W		
	Efficiency (Typ.)	87.0%	89.5%		
	Voltage adj. range *8	10.2~13.8V	21.6~28.8V		
	Max.capacitive load	1500uF	750uF		
	Voltage tolerance *3	±4.0%	±2.0%		
	Line regulation	±1.0%	±0.5%		
	Load regulation	±2.0%	±1.0%		
	Ripple & noise (max.) * 4	120mVp-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. 0.88A			
	Inrush current (Typ.)	Cold start: 50A/230VAC			
	Leakage current				
	Leakage current	< 0.75mA/240VAC			
	Over load	105%~155% of the rated power Protection type: hiccup mode, recovers automatically after load reduced.			
Drotootion			3		
Protection	Over voltage	13.8~18.0V	28.8~ 36.0V		
		Protection type: hiccup mode, recovers automatically after fault condition removed.			
	Over temperature	100℃±10℃ RTH2			
		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	Storage temp.,humidity	-40~+85℃,10~95%RH			
	Temp. coefficient	±0.05%℃(-30℃~+50℃)			
	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 *9	2000 meters			
Safety	Safety standards	Compliance to IEC/EN/UL/BS62368-1, GB4943.1,	EN61558-1, EN60335-1		
	Withstand voltage	I/P-O/P:4KVAC			
	Isolation resistance	I/P-O/P:100M Ohms / 500VDC / 25 ℃ / 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			
EMC	Radiated immunity	IEC/EN61000-4-3 10V/m perf.Criteria A			
	Electrical Fast Transient/Burst Immunity	IEC/EN61000-4-3 10V/III perf.CriteriaA			
	Surge immunity				
Others	Conducted interference immunity	IEC/EN61000-4-5 L_N±2KV L/N/P_G ±4KV perf.Criteria A			
	Voltage dips, sags and short	IEC/EN61000-4-6 10Vr.m.s perf.criteria A			
	interruptions immunity	IEC/EN61000-4-11 0%,70% perf. Criteria B			
	·				
	MTBF	>200K			
	Warranty	3 years			
	Dimension	99.0mm(L)*82.0mm(W)*30.0mm(H)			
	Packing 460mm*230mm*195mm;0.192kg;9.6kg/50pcs				
Notes	 ○ All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 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. ⑥ When the total power remains unchanged and the output voltage is increased, the output current should be reduced accordingly. 				
	When the altitude exceeds 2000 m (6500ft), the operating environment temperature decreases at a rate of 3.5℃ /1000 m.				

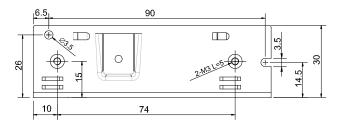


• Block Diagram



◆ Case Dimension



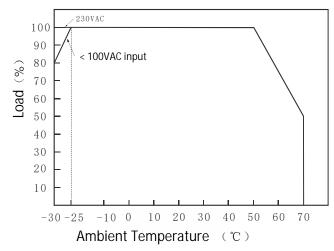


Pin No.	Pin function	Pin No.	Pin function
1	AC/L	4	-V
2	AC/N	5	+V
3	FG .		

Note:

Dimension unit: mm Unmarked tolerance: ± 1.00

Derating Curve



Input Derating Curve

