◆ Features

- Constant voltage
- Switching the input voltage range via a toggle switch.
- High efficiency, high reliability and long lifetime.
- Equipped with automatic fan on/off control, with forced air cooling by the fan.
- Working temperature:-25℃~+70℃
- Protection: over load, over voltage,over temperature,short circuit,etc.
- Typical efficiency up to 90.0%
- No load power comsumption <0.75 W;
- Compliance to RoHS/REACH environmental standards
- 100% Full load burn-in test
- 3 years warranty

◆ Application

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

◆ Description

The SVEC-XX350D1775 series is a 350 W single-output industrial power supply with a compact 30 mm low-profile. This series of power supplies features segmented input of 115 VAC or 230 VAC (selectable via a switch) and supports both AC and DC operation. The metal mesh enclosure enhances heat dissipation, allowing normal operation within a temperature range of -25°C to +70°C without the need for a fan. It offers a no-load power consumption of less than 0.75W, making it easy for terminal systems to meet international energy efficiency standards.

With comprehensive protection features and 5G vibration resistance, the power supply includes a built-in EMI filter that complies with CISPR 32/EN 55032 CLASS B standards. Its excellent electromagnetic compatibility (EMC) properties ensure terminal electronic devices are protected from electromagnetic interference.

◆ Model Encoding

SVEC−XX 350 D1775

- D1775 — Case No.
- 350 — Output Wattage
- XX — Output voltage
- SVEC — Series name

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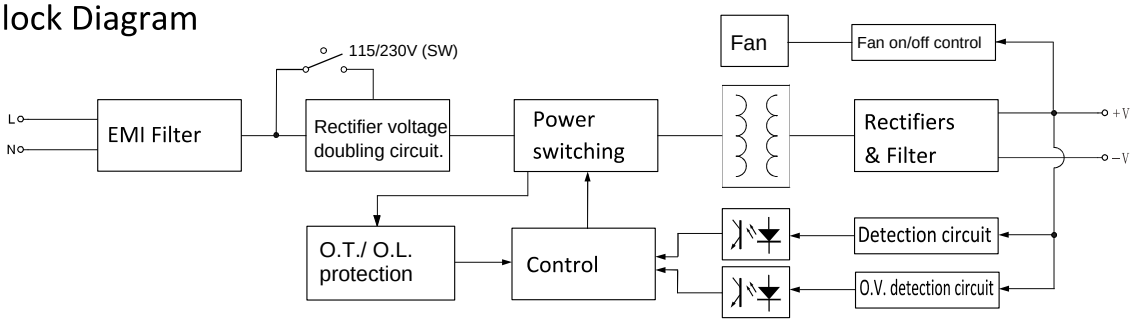
350W AC-DC Single Output Industrial Power Supply SVEC series

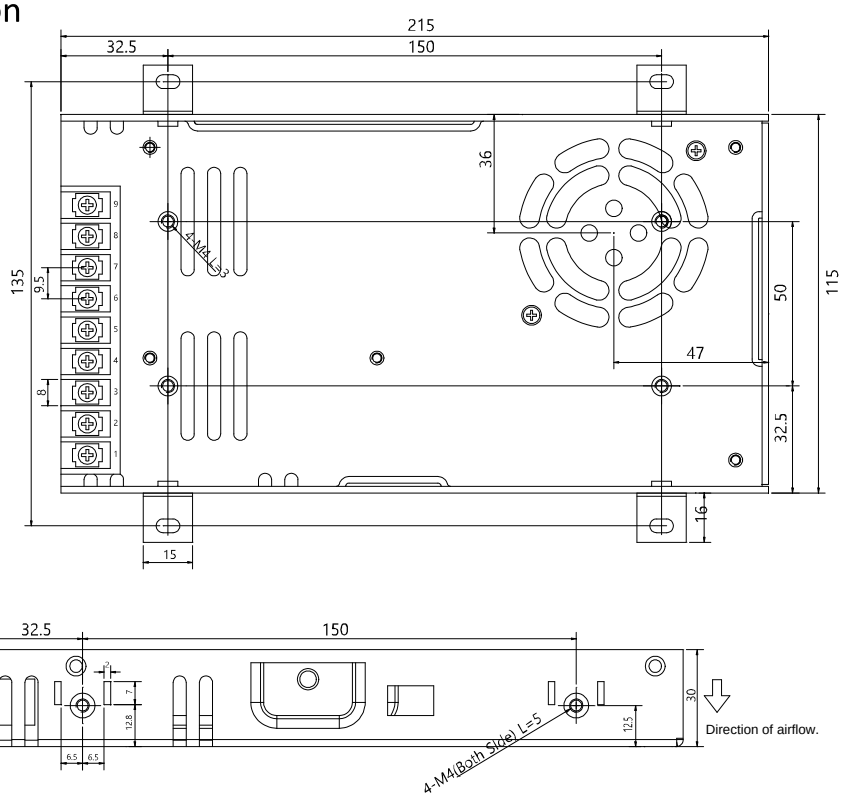
◆ Specification

Model		SVEC-12350D1775	SVEC-24350D1775
Output	DC voltage	12V	24V
	Rated current	29.2A	14.6A
	Current range	0~29.2A	0~14.6A
	Rated power	350W	350W
	Efficiency (Typ.)	87.0%	90.0%
	Voltage adj. range ＊⑧	10.2~13.8V	21.6~28.8V
	Max.capacitive load	4000uF	1500uF
	Voltage tolerance ＊③	±4.0%	±2.0%
	Line regulation	±1.0%	±0.5%
	Load regulation	±2.0%	±1.0%
	Ripple & noise（max.）＊④	150mVp-p	240mVp-p
	Setup, rise time ＊⑥	2000ms, 30ms (at full load)	
	Hold up time（Typ.）	15ms 230VAC/115VAC (at full load)	
Input	Voltage range ＊②	95~130VAC/185~264VAC (by switch) 134~184VDC / 261~374VDC (by switch).	
	Frequency range	47~63Hz	
	AC current	Max.8.18A@115VAC 4.1A@230VAC	
	Inrush current（Typ.）	Cold start: 60A/230VAC	
	Leakage current	<0.75mA/240VAC	
Protection	Over load	105% to 145% of the rated output power.	
		Protection type: hiccup mode, recovers automatically after load reduced.	
	Over voltage	13.8~18.0V	28.8~36.0V
		Protection type: hiccup mode, recovers automatically after fault condition removed.	
	Over temperature	Ta: 55℃~65℃	
		Protection type: shut down O/P voltage, recovers automatically after temperature goes down.	
Environment	Working temp.	-25~+70℃ Refer to " Derating curve"	
	Working humidity	20~90% RH, non-condensing	
	Storage temp.,humidity	-40~+85℃, 10~95% RH	
	Temp. coefficient	±0.05%/℃ (-25℃~+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	
EMC Emission	Conduct emission	CISPR32/EN55032 CLASS B	
	Radiated emission	CISPR32/EN55032 CLASS B	
	Harmonic current	IEC/EN61000-3-2 Class A	
Function	Fan on/off control	Fan ON: RTH3≥50℃; Fan OFF: RTH3≤40℃	
EMC Immunity	Electrostatic Discharge	IEC/EN61000-4-2 Contact:±6KV/AIR:±8KV perf. CriteriaA	
	Radiated immunity	IEC/EN61000-4-3 10V/m perf.Criteria A	
	Electrical Fast Transient/Burst Immunity	IEC/EN61000-4-4 ±2KV perf.Criteria A	
	Surge immunity	IEC/EN61000-4-5 L_N±2KV L/N/P_G ±4KV perf.Criteria A	
	Conducted interference immunity	IEC/EN61000-4-6 10Vr.m.s erf.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	215.0mm(L)*115.0mm(W)*30.0mm(H)	
	Packing	360mm*240mm*280mm;0.695Kg;13.9Kg/20pcs	
Notes	① All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. ⑧ When the total power remains unchanged and the output voltage is increased, the output current should be reduced accordingly. ⑨ When the altitude exceeds 2000 m (6500ft), the operating environment temperature decreases at a rate of 3.5℃ /1000 m.		

◆ Block Diagram



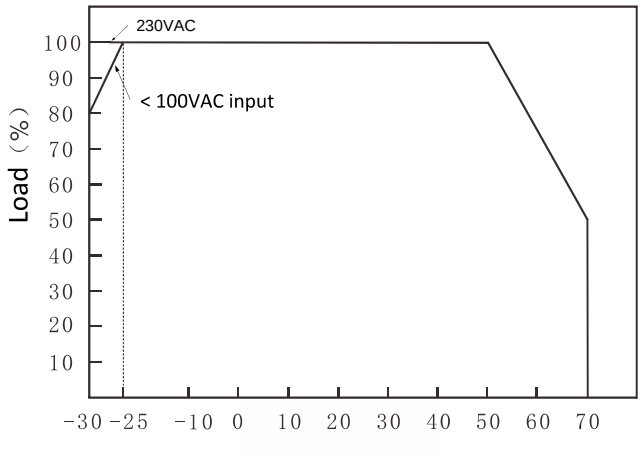
◆ Case Dimension



Pin No.	Pin function	Pin No.	Pin function
1	AC/L	4,5,6	-V
2	AC/N	7,8,9	+V
3	FG ⏚		

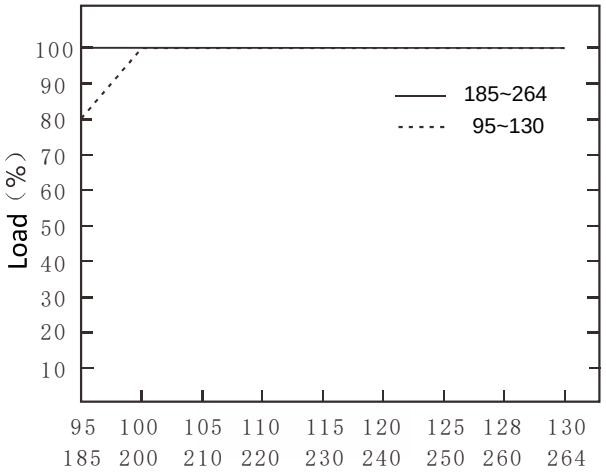
Note:
Dimension unit: mm
Unmarked tolerance: ± 1.00

◆ Derating Curve



Ambient Temperature （℃）

◆ Input Derating Curve



Input voltage (VAC) 50/60Hz