



- Universal AC input / full range
- Built-in active PFC function, PF>0.95
- Forced air cooling by built-in DC ball bearing fan
- Protections: Short circuit/Over load/Over voltage
- Built-in constant current limiting circuit
- Open frame available (optional)
- Low profile: 33mm thickness
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at PFC: 67KHz PWM: 134KHz
- 3 years warranty

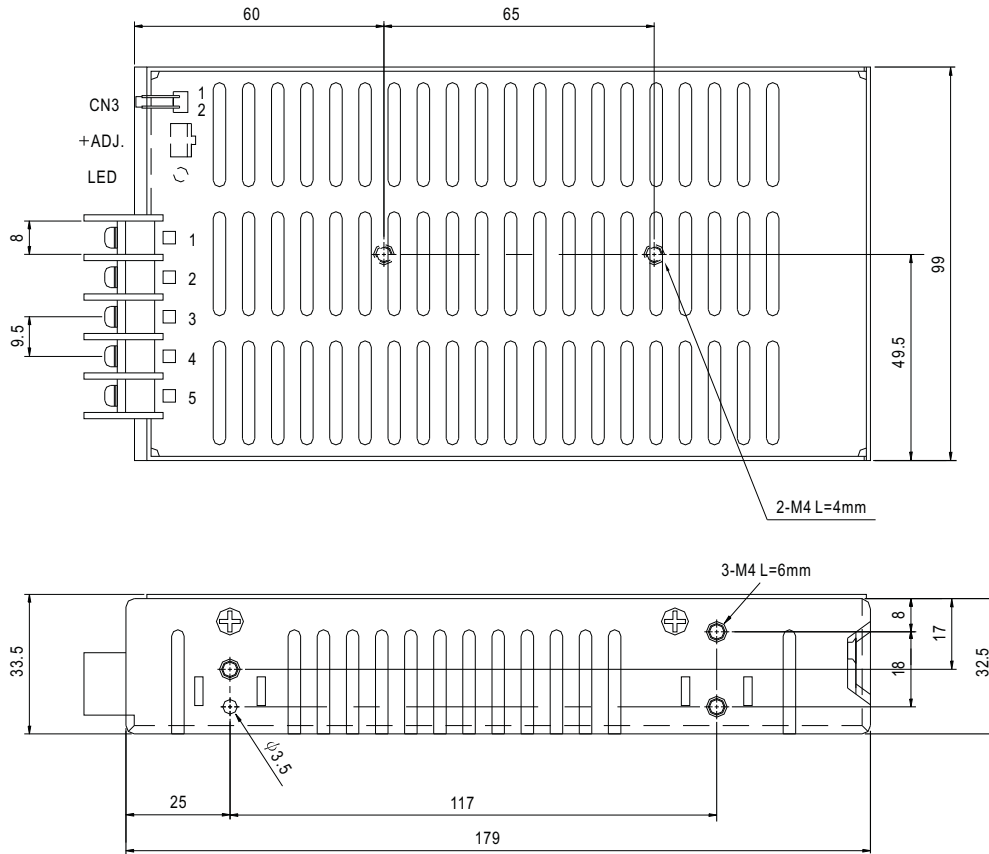


SPECIFICATION

MODEL	SP-75-3.3	SP-75-5	SP-75-7.5	SP-75-12	SP-75-13.5	SP-75-15	SP-75-24	SP-75-27	SP-75-48		
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V	
	RATED CURRENT	15A	15A	10A	6.3A	5.6A	5A	3.2A	2.8A	1.6A	
	CURRENT RANGE	0 ~ 15A	0 ~ 15A	0 ~ 10A	0 ~ 6.3A	0 ~ 5.6A	0 ~ 5A	0 ~ 3.2A	0 ~ 2.8A	0 ~ 1.6A	
	RATED POWER	49.5W	75W	75W	75.6W	75.6W	75W	76.8W	75.6W	76.8W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	100mVp-p	
	VOLTAGE ADJ. RANGE	+10,-5%									
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
SETUP, RISE, HOLD TIME	600ms, 60ms, 20ms at full load										
INPUT	VOLTAGE RANGE	85 ~ 264VAC		120 ~ 370VDC							
	FREQUENCY RANGE	47~63Hz									
	POWER FACTOR	PF>0.93/230VAC		PF>0.96/115VAC at full load							
	EFFICIENCY (Typ.)	68%	72%	74%	77%	78%	79%	80%	80%	80%	
	AC CURRENT	1.3A/115VAC		0.7A/115VAC							
	INRUSH CURRENT (max.)	COLD START 40A/230VAC									
	LEAKAGE CURRENT	<2mA / 240VAC									
PROTECTION	OVER LOAD	105 ~ 150% of rate load Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	OVER VOLTAGE	3.8 ~ 4.46V	5.75 ~ 6.75V	8.63 ~ 10.13V	13.8 ~ 16.2V	15.53 ~ 18.23V	17.25 ~ 20.25V	27.6 ~ 32.4V	31.05 ~ 36.45V	55.2 ~ 64.8V	
		Protection type : Shunt down o/p voltage, re-power on to recover									
FUNCTION	REMOTE CONTROL(OPTION)	CN3:4 ~ 10VDC POWER OFF, <0 ~ 0.8VDC POWER ON									
ENVIRONMENT	WORKING TEMP., HUMIDITY	-10 ~ +60°C (Refer to output load derating curve), 20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS	UL1950, TUV EN60950 Approved									
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B									
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3, Class A									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC									
OTHERS	MTBF	208.8K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	179*97*33mm (L*W*H)									
	PACKING	0.55Kgs/pcs, 20pcs/11Kgs/0.74CUFT									
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p>										

Mechanical Specification

Case No. 920A Unit:mm



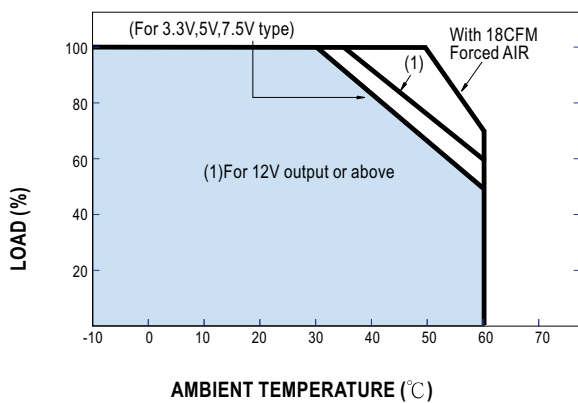
Terminal pin number assignment :

Pin No.	Assignment	Pin No.	Assignment
1	DC OUTPUT +V	3	FG \perp
2	DC OUTPUT -V	4,5	AC INPUT

Remote ON/OFF(CN3): Molex 5046-02 or equivalent(optional)

Pin No.	Assignment	Mating Housing	Terminal
1	RC-	Molex 5051 or equivalent	Molex 2759 or equivalent
2	RC+		

Derating Curve



Output Derating VS Input Voltage

