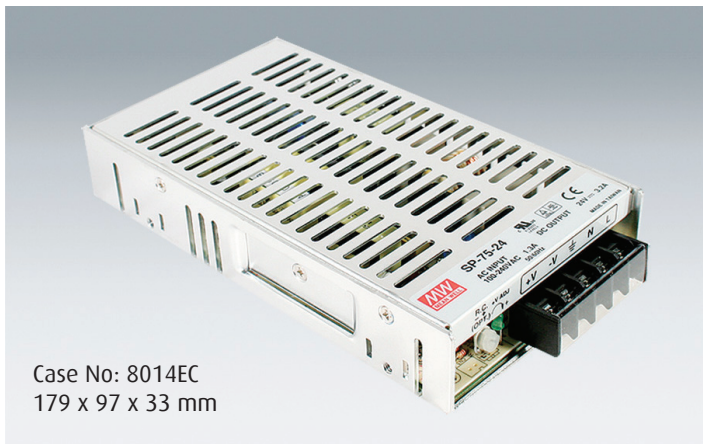


SP-75 Series

75W Single Output Enclosed Power Supply with PFC Function



Case No: 8014EC
179 x 97 x 33 mm

Features

- Universal AC input / Full range
- Built-in active PFC function, PF>0.93
- Protections: Short circuit / Overload / Over Voltage
- Built-in constant current limiting circuit
- 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

INPUT	Voltage	85V ~ 264VAC 120 ~ 370VDC								
	Frequency	47 ~ 63 Hz								
	Power Factor	PF>0.93/230VAC PF>0.96/115VAC at full load								
	Efficiency	70%	76%	79%	81%	82%	82%	83%	83%	83%
	AC Current	1.3A/115VAC 0.7A/230VAC								
	Inrush Current (Typ.)	Cold Start 45A/230VAC								
	Leakage Current	<2mA@240V								
OUTPUT	MODEL No.	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
	Voltage	3.3V	5V	7.5V	12V	13.5	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.	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	80mVp-p	100Vp-p	100mVp-p	100Vp-p
	Voltage Adj. Range	3.14~3.63V	4.75~5.5V	7.13~8.25V	11.4~13.2V	12.8~14.9V	14.3~16.5V	22.8~26.4V	25.7~29.7V	45.6~52.8V
	Voltage Tolerance	± 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 Time	800ms, 60ms at full load								
Holdup Time (Typ.)	36ms at full load									
PROTECTION	Overload	105~150% rated output power 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	31.5 ~ 36.45V	55.2 ~ 64.8V
	Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down								
FUNCTION	Remote Control (Option)	CN3:4~10VDC power off, <0~0.8VDC Power on								
ENVIRONMENT	Working Temp.	-10 ~ +60°C (Refer to "Derating Curve")								
	Working Humidity	20 ~ 90% RH non-condensing								
	Storage Temp., Humidity	-20 ~ +85°C, 10~95%RH								
	Temp. Co-efficient	±0.05% / °C (0~50°C)								
	Vibration	10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFETY & EMC	Safety Standards	UL60950-1, TUV EN60950-1 approved								
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/70% RH								
	EMC Emission	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2-3								
	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN50204, EN55024, light industry level, criteria A								
OTHERS	M.T.B.F.	208.8K hrs min. MIL-HDBK-217F (25°C)								
	Packaging	0.58Kg; 20pcs/12Kg/0.64CUFT								

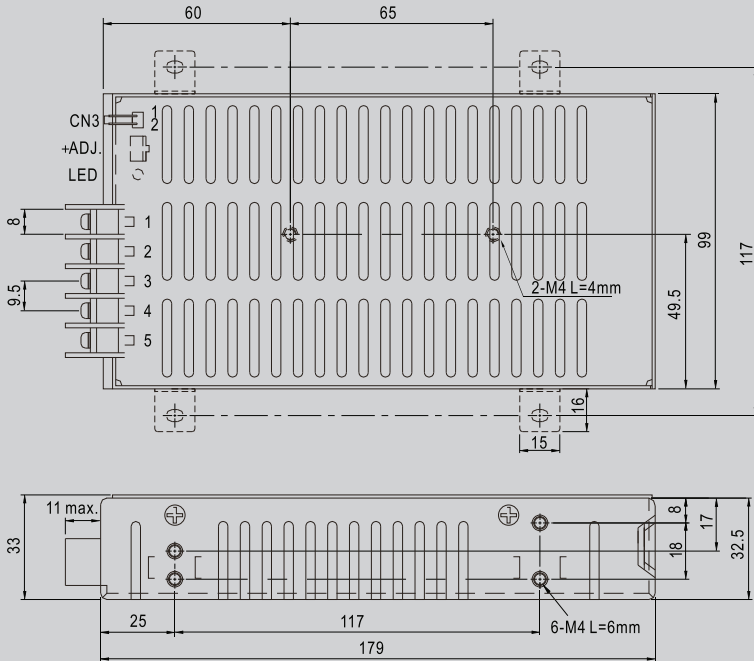
1. All measurements not specially mentioned are based on 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
3. Tolerance: Includes set up tolerance, line regulation and load regulation
4. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.
For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
5. Derating may be needed under low input voltages. Please check the derating curve for more details.

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Mechanical Specification



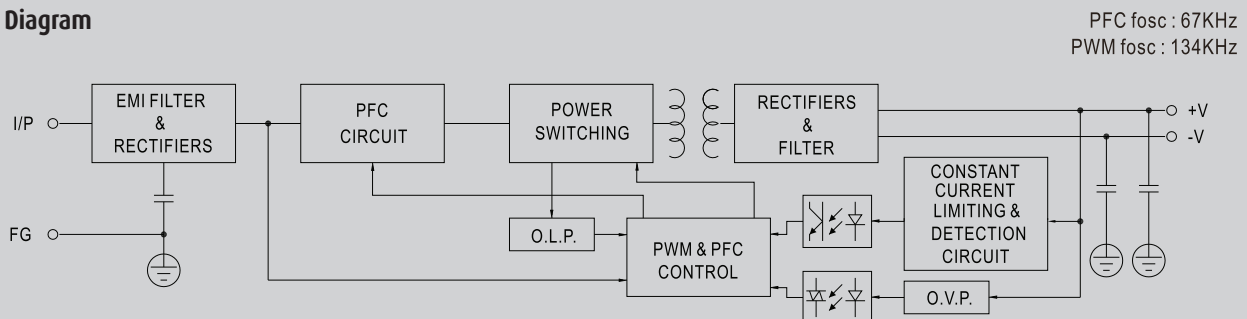
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	DC OUTPUT +V	4	AC/N
2	DC OUTPUT -V	5	AC/L
3	FG \perp		

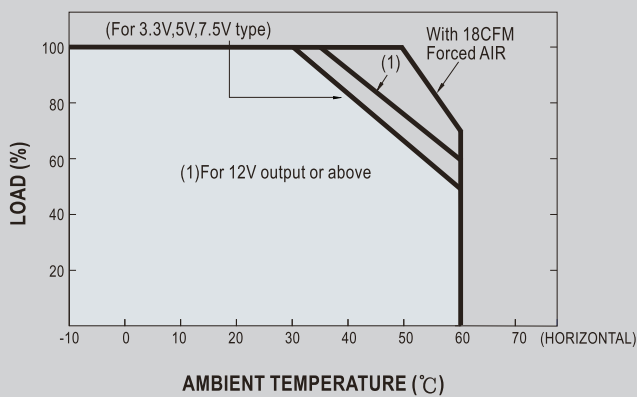
Remote ON/OFF(CN3): Molex 5046-02 or equivalent(optional)

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

Block Diagram



De-Rating Curve



Static Characteristics

