

# N000000L054B: 240W Single Output Switching Power Supply

## Quick Look

- Universal AC input
- Built-in active PFC function
- IP67/IP65 design
- Indoor & outdoor installations
- Cooling by free air convection



## Features

- Universal AC input/full range (up to 305VAC)
- Built-in active PFC function
- Protections:
  - Short circuit
  - Over current
  - Over voltage
  - Over temperature
- Cooling by free air convection
- OCP point adjustable through output cable or internal potentiometer
- IP67/IP65 design for indoor or outdoor installations
- Three-in-one dimming function (1~10Vdc or PWM signal or resistance)
- Suitable for LED lighting and street lighting applications
- Compliance to worldwide safety regulations for lighting
- Suitable for dry, damp, or wet locations
- Type HL for use in class I, Division 2 hazardous (classified) location luminaires

## Output Specifications

Model	N000000L054B	Current Adj. Range	2.23~4.45A
DC Voltage	54V	Voltage Tolerance	±1.0%
Constant Current Region	27~54V	Line Regulation	±0.5%
Rated Current	4.45A	Load Regulation	±0.5%
Rated Power	240.3W	Setup, Rise Time	1000ms, 80ms/115VAC 500ms, 80ms/230VAC at full load
Ripple & Noise (Max.)	350mVp-p	Hold Up Type (Typ.)	15ms at full load 230VAC/115VAC
Voltage Adj. Range	50~57V	Current Adj. Range	2.23~4.45A
		Voltage Tolerance	±1.0%

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### Input Specifications

Voltage Range <sup>5</sup>	90~305VAC 127~431VDC
Frequency Range	47~63Hz
Power Factor (Typ.)	PF > 0.98/115VAC PF > 0.95/230VAC at full load (refer to Power Factor Characteristic Curve)
Total Harmonic Distortion	THD < 20% when output loading ≥ 50% at 115VAC/230VAC input and output loading ≥ 75% at 277VAC input
Efficiency (Typ.)	93.5%
AC Current (Typ.)	4A/115VAC 2A/230VAC 1.2A/277VAC
Inrush Current (Typ.)	Cold start 75A (t width = 570 μs measured at 50% I peak) at 230VAC
Max. No. of PSUs on 16A Circuit Breaker	2 units (circuit breaker type B)/4 units (circuit breaker type C) at 230VAC
Leakage Current	<0.75mA/277VAC

### Protection Specifications

Over Current	95~108% Protection type: Constant current limiting, recovers automatically after fault condition is removed
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed
Over Voltage	60~67V Protection Type: Constant current limiting, recovers automatically after fault condition removed
Over Temperature	Shut down o/p voltage, recovers automatically after temperature goes down

### Environment Specifications

Working Temperature	-40~+70°C (refer to Derating Curve)
Working Humidity	20~95% RH non-condensing
Storage Temperature, Humidity	-40~+80°C, 10~95% RH
Temperature Coefficient	±0.03%/°C (0~50°C)
Vibration	10~500Hz, 5G 12 min/1 cycle, period for 72 min each along X, Y, Z axes

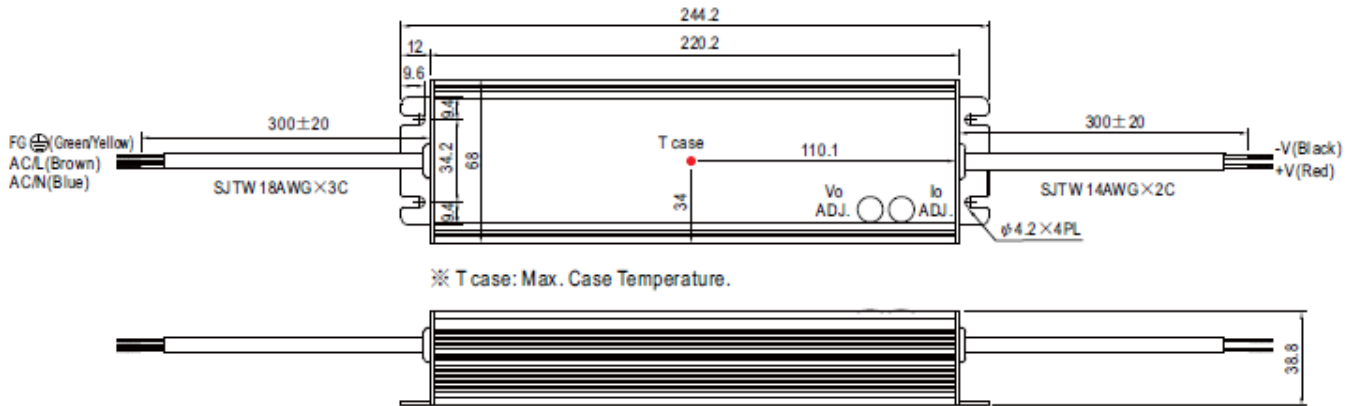
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### Safety & EMC Specifications

Safety Standards <sup>7</sup>	UL1012, CAN/CSA-C22.2 No. 107.1-01, UL8750 (type HL), CSA C22.2 No. 250.0-08, TUV EN61347-1, E61347-2-13 independent, UL60950-1, UL8750, TUV EN60950-1, IP65 or IP67, J61347-1, J61347-2-13 approved
Withstand Voltage	I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:1.5KVAC
Isolation Resistance	IP-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC/25°C/70%RH
EMC Emission	Compliance to EN55015, EN55022 (CISPR22) Class B, EN61000-3-2 Class C (≥50% load), EN61000-3-3
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547; EN55024; light industry level (surge 4KV), criteria B

### Other Specifications

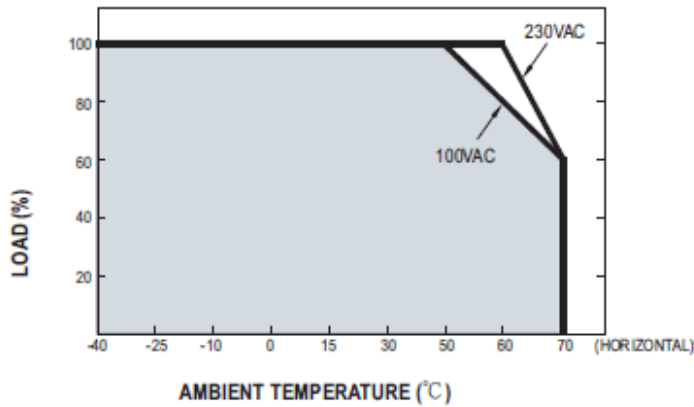
MTBF	207.9K hr/min MIL-HDBK-217F (25°C)
Dimensions	244.2x68x38.8 mm
Packing	1.3 kg; 12 pcs/16.6 kg/0.84 cu ft



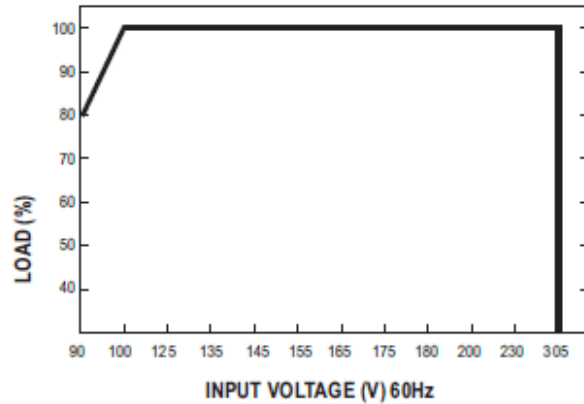
※ IP65 rated. Output voltage and constant current level can be adjusted through internal potentiometer.  
(Can access by removing the rubber stopper on the case.)

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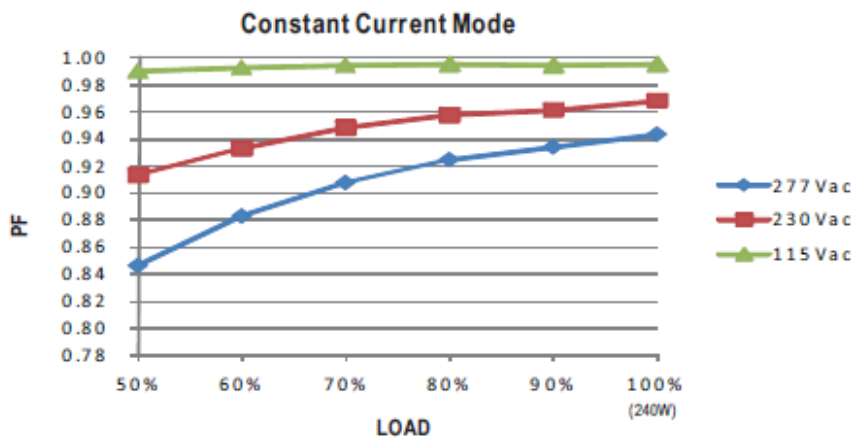
■ Derating Curve



■ Static Characteristics



■ Power Factor Characteristic



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