

## RLH DIN Rail 75W Switching Power Supply

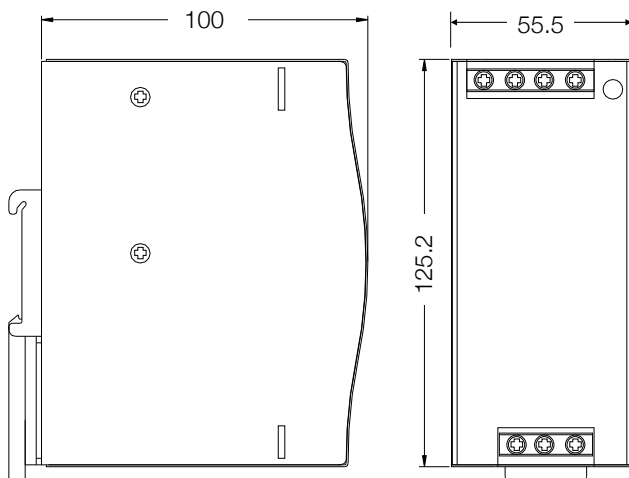
FLEX-POWER AC/DC & DC/DC

### Overview

The RLH 75W AC/DC DIN rail mount power supply is a compact switching supply designed to convert AC or DC power (100/240VAC, 120~370VDC, depending on model) to regulated DC power for a wide range of industrial equipment.

They may be DIN rail or wall-mounted, feature flexible AC and DC input, are available in 12, 24 and 48VDC output models. They include a power good signal indicator, have low output ripple along with short circuit, overvoltage and overload protection. The RLH 75W DIN Mount switching power supplies are covered by our **Exclusive Unconditional Lifetime Warranty**.

### Dimensions



RLH-D-ACDC-74-24-01 75W DIN Mount Power Supply



### Standard Features

#### Exclusive Unconditional Lifetime Warranty

Universal AC input range, DC input is auto sensing

Short circuit, overload, over voltage and over temperature protection

Cooling by free air convection

May be installed on DIN rail TS-35/7.5 or I5

UL 508 (industrial control equipment) approved

LED indicator for power on

100% full load burn-in test

Fix switching frequency at 50KHz

Convenient screw down terminals accept up to 8AWG wiring

12 inch DIN rail is included

**Input / Output Terminals**



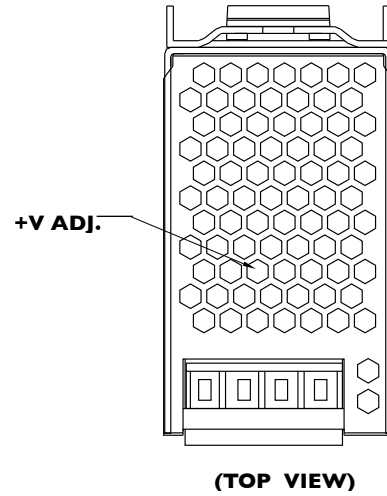
**DC TERMINAL (OUTPUT)**

No.	Description
1, 2	DC Output +V
3, 4	DC Output -V

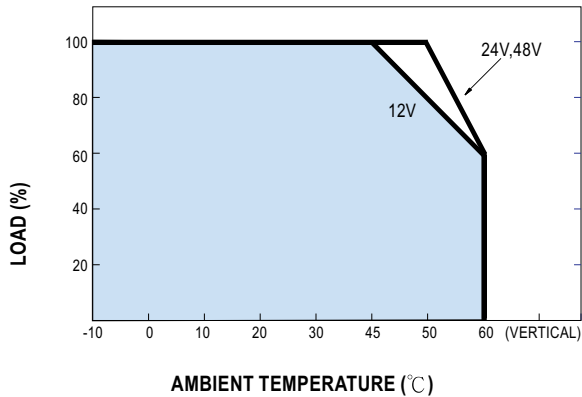
**AC/DC TERMINAL (INPUT)**

No.	Description	
	AC	DC
1	FG $\oplus$	~
2	N	V+
3	L	V-

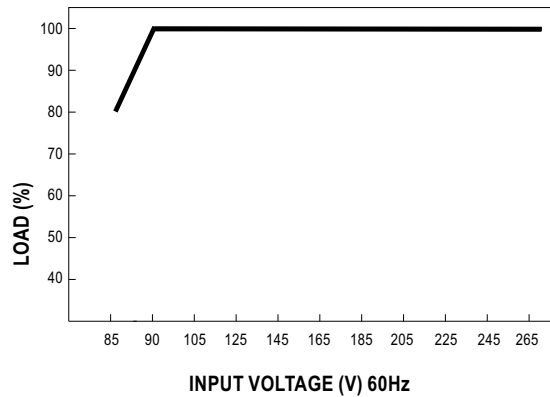
**Output Voltage Adjustment**



**Derating Curve**



**Output Derating vs. Input Voltage**



# Specifications

		<b>RLH-D-ACDC-75-12-01</b>	<b>RLH-D-ACDC-75-24-01</b>	<b>RLH-D-ACDC-75-48-01</b>
<b>DC OUTPUT</b>	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	6.3A	3.2A	1.6A
	CURRENT RANGE	0 ~ 6.3A	0 ~ 3.2A	0 ~ 1.6A
	RATED POWER	76W	76.8W	76.8W
	RIPPLE & NOISE (max.) Note 2	100mVp-p	150mVp-p	240mVp-p
	VOLTAGE ADJ. RANGE	12 ~ 14V	24 ~ 28V	48 ~ 53V
	VOLTAGE TOLERANCE Note 3	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1%	±1%	±1%
	SETUP, RISE TIME	1000ms, 60ms/230VAC, 1800ms, 60ms/115VAC at full load		
	HOLD UP TIME (Typ.)	60ms/230VAC, 12ms/115VAC at full load		
<b>INPUT</b>	VOLTAGE RANGE	110-120 or 200-240VAC 120-370VDC	100-120 or 200-240VAC 120-370VDC	100-120 or 200-240VAC 120-370VDC
	FREQUENCY RANGE	47 ~ 63Hz		
	EFFICIENCY (Typ.)	76%	80%	81%
	AC CURRENT (Typ.)	1.6A/115V, 0.96A/230V		
	INRUSH CURRENT (Typ.)	Cold Start 20A/115VAC, 40A/230VAC		
	LEAKAGE CURRENT	<1mA / 240VAC		
	<b>PROTECTION</b>	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed	
OVER VOLTAGE		15 ~ 16.5V	29 ~ 33V	58 ~ 65V
OVER TEMPERATURE		85°C ±5°C (TSW1) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down		
<b>ENVIRON- MENT</b>	WORKING TEMP.	-10°C~ +60°C (Refer to output load derating curve)		
	WORKING HUMIDITY	20 ~ 90% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-20°C ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6		

# Specifications

<b>SAFETY &amp; EMC</b>	SAFETY STANDARDS	UL508, CE, TUV EN60950-1 approved	
	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	
	EMI CONDUCTION & RADIATION	Compliance to EN55011,EN55022 (CISPR22) Class B	
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3	
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A	
<b>OTHER</b>	MTBF	123.1K hrs min.	MIL-HDBK-217F (25°C)
	DIMENSIONS	55.5*125.2*100mm (W*H*D)	
	PACKING	0.6Kg; 20pcs/13Kg/1.29CUFT	
<b>NOTE</b>	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</li> </ol>		

# Ordering Information

Part Number	Input	Output
RLH-D-ACDC-75-12-01	100-240AC/120-370VDC	12VDC/6.3A
RLH-D-ACDC-75-24-01	110-240AC/120-370VDC	24VDC/3.2A
RLH-D-ACDC-75-48-01	110-240AC/120-370VDC	48VDC/1.6A

Recommended DIN Rail Mount Circuit Breaker

Part Number	Rating
RLH-DBR-03-01	3A

▶ Circuit breaker rating is 1.5 x Input Rating of power supply



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Please contact your RLH sales representative for pricing and delivery information.

Specifications subject to change without notice.