



# 110 Watt, REL Series, Open Frame ( 1 to 4 Outputs )

- Universal 85~264 VAC Input
- High Efficiency
- Very Compact Size (fit within 1U Height)
- Option of Isolated Outputs and Screw Terminals
- Remote Sense (single o/p) & Power Fail Signals
- One to Four Outputs, Custom Outputs Available
- Industrial & Medical Approvals
- Optional Chassis & Safety Cover
- 2 Year Warranty



### Specification

AC Input Voltage Range.....	85-264 VAC, 47~63 Hz
Power Factor.....	0.95 (full power, 230 Volts AC Input)
Output Voltage.....	See Table Below (+/-5% adjustment range on output1)
Output Power.....	80 Watts convection cooled, 110 Watts fan cooled
Over Load Protection.....	110%-160%
Over Voltage Protection.....	Output 1 : 110%-150%
Hold Time.....	16ms min, full load 85 Volts AC Input
Isolation Voltage.....	I/P-O/P : 4KVAC
Operating Temperature.....	0~+70°C,
Open Frame Convection Cooled .....	80 Watts to +50°C, derate to 40 Watts at +70°C
Full Cased Convection Cooled.....	65 Watts to +50°C, derate to 35 Watts at +70°C
With Forced Air Cooling, Cased or Open Frame....	110 Watts to +50°C, derate to 55 Watts at +70°C
Safety Standards.....	UL / EN60950-1, UL / EN60601-1 approved CB, CAN/CSA-C22.2, CE LVD
EMC Standards.....	EN55011/22 class B, EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6,11
Connections Input and Output.....	Plug In Molex Screw Terminal option
Dimensions, Open Frame version.....	127(L) x 76.2(W) x 33.5(H) mm
Optional Safety Cover.....	133.6(L) x 79.2(W) x 37.6(H) mm

### Models and Ratings (maximum total power 110 Watts, see temperature derating details above).

Model	Output 1	Output 2	Output 3	Output 4
REL-110-1001	2.5V / 22A			
REL-110- 1002	3.3V / 22A			
REL-110- 1003	5V / 22A			
REL-110- 1004	12V / 9.2A			
REL-110- 1005	15V / 7.3A			
REL-110- 1006	24V / 4.6A			
REL-110- 1007	28V / 3.9A			
REL-110- 1008	48V / 2.3A			
REL-110-2001	+3.3V / 10A	+5V / 6A		
REL-110-2002	+5V / 10A	+ 12V / 5A		
REL-110-2003	+5V / 10A	+24V / 3A		
REL-110-2004	+ 12V / 5A	-12V / 4A		
REL-110-2005	+15V / 4A	-15V / 3A		
REL-110-2006	+18V / 4A	-18V / 3A		
REL-110-3001	+5V / 10A	+ 12V / 3A		-12V / 3A
REL-110-3002	+5V / 10A	+15V / 2A		-15V / 2A
REL-110-3003	+8V / 6A	-8 V / 1A		+30V / 1A
REL-110-3004	+9V / 3A	+24V / 3A	+13V / 2A	

Non standard customer specified outputs and Isolated outputs also available.  
See next page for quad outputs models and mechanical details

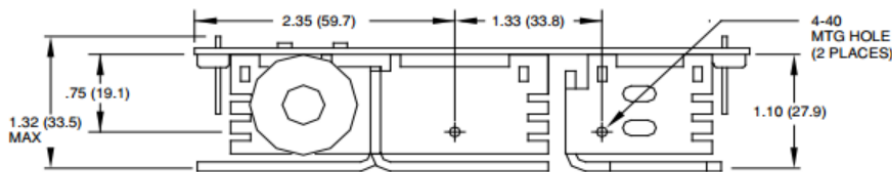
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Quad Output Models (maximum total power 110 Watts, see temperature derating details above).  
 Non-standard customer specified and Isolated Outputs are available.

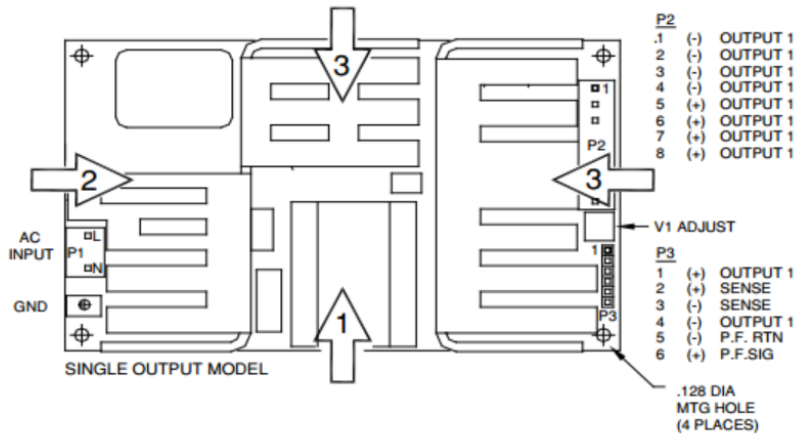
Model	Output 1	Output 2	Output 3	Output 4
REL-110-4001	+3.3 V / 10A	+5V / 6A	+12V / 2A	-12V / 2A
REL-110-4002	+5 V / 10A	+3.3V / 6A	+12V / 2A	-12V / 2A
REL-110-4003	+5 V / 10A	+3.3V / 6A	+15V / 2A	-15V / 2A
REL-110-4004	+5 V / 10A	-5V / 6A	+12V / 2A	-12V / 2A
REL-110-4005	+5 V / 10A	-5V / 6A	+15V / 2A	-15V / 2A
REL-110-4006	+5 V / 10A	+24V / 2A	+12V / 2A	-12V / 2A
REL-110-4007	+5 V / 10A	+24V / 2A	+15V / 2A	-15V / 2A
REL-110-4009	+5 V / 10A	+24V / 2A	+7V / 2.5A	-7V / 2.5A

## Mechanical Details

Single Output Models (please see next page for multi output models)



Air Flow Direction for fan cooling  
 1 = Optimum  
 2 = Good  
 3 = Fair



## Connections

P3 Signals	
Pin	Function
1	+V Output 1
2	+ Sense
3	-Sense
4	-V Output 1
5	Power Fail RTN
6	Power Fail SIG

P2 Main Output	
Terminal	Function
1	-V Out
2	-V Out
3	-V Out
4	-V Out
5	+V Out
6	+V Out
7	+V Out
8	+V Out

Optional Screw Terminal Connections.

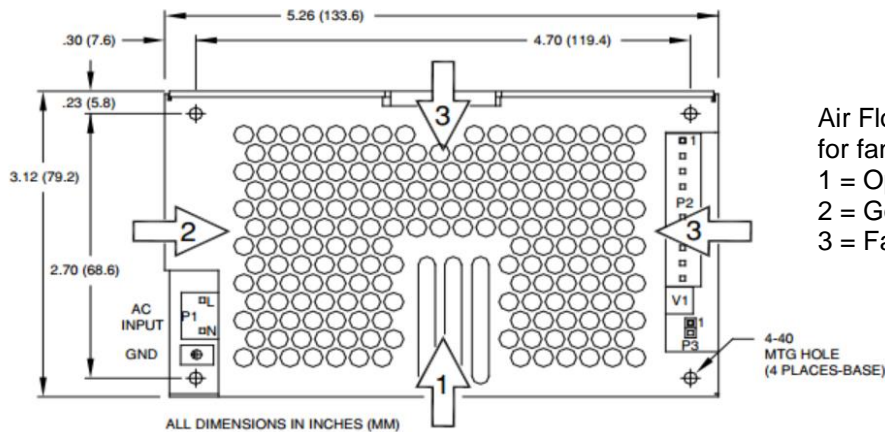
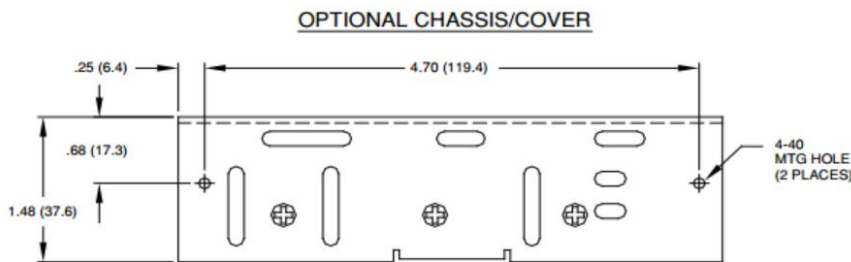
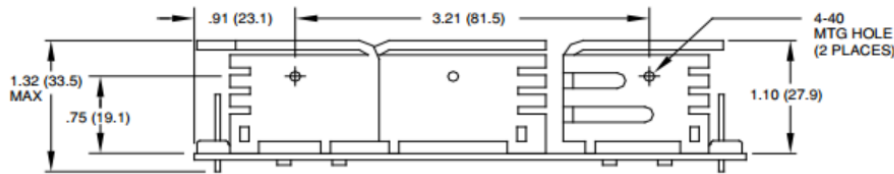
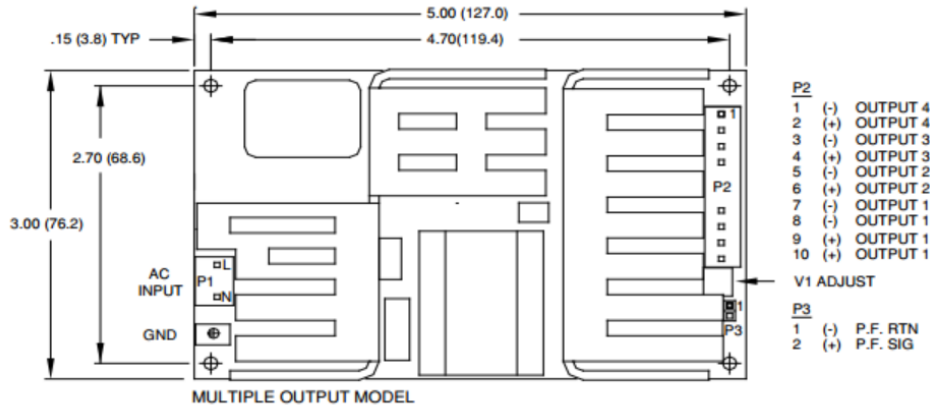
Non-standard customer specified and Isolated outputs also available.

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## Mechanical Details

### Multi Output Models

(multi output units are mechanically identical to single output units other than the output connections).



P2	
Terminal	Function
1	-V Output 4
2	+V Output 4
3	-V Output 3
4	+V Output 3
5	-V Output 2
6	+V Output 2
7	-V Output 1
8	-V Output 1
9	+V Output 1
10	+V Output 1

P3	
Pin	Function
1	Power Fail RTN
2	Power Fail SIG

Option of Screw Terminals Connections Available.

Air Flow Direction for fan cooling  
 1 = Optimum  
 2 = Good  
 3 = Fair

**Non-standard customer specified outputs and Isolated Outputs available**

Specifications May Change Without Notice, E&OE. ALL PSU Terms & Conditions apply.