



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

- Universal 85~264 VAC Input
- High Efficiency
- Very Compact Size (fit within 1U Height)
- Customer Specified Non-standard Outputs
- Remote Sense (single o/p) & Power Fail Signals
- One to Four Outputs
- Industrial & Medical Approvals
- Optional Safety Cover, Remote On/Off, Screw Terminals and Isolated Outputs
- 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.....	100 Watts convection cooled, 150 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	100 Watts to +50°C, derate to 50 Watts at +70°C
Full Cased Convection Cooled.....	85 Watts to +50°C, derate to 40 Watts at +70°C
With Forced Air Cooling, Cased or Open Frame....	150 Watts to +50°C, derate to 75 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
Connection Input & Output.....	Input Plug In Molex, Output Studs or Plug-in Screw Terminal option Input & Output
Dimensions open frame version.....	152.4(L) x 97.3(W) x 33.5(H) mm
Optional Safety Cover.....	158.8(L) x 100.5(W) x 37.6(H) mm

Models and Ratings (maximum total power 150 Watts, see temperature derating details above).

Model	Output 1	Output 2	Output 3	Output 4
REL-150-1001	2.5V / 30A			
REL-150-1002	3.3V / 30A			
REL-150-1003	5V / 30A			
REL-150-1004	12V / 12.5A			
REL-150-1005	15V / 10A			
REL-150-1006	24V / 6.3A			
REL-150-1007	28V / 5.4A			
REL-150-1008	48V / 3.1A			
REL-150-1009	20-31V / 5.4A			
REL-150-1010	36 V / 4.16A			
REL-150-2001	+3.3V / 15A	+5V / 8A		
REL-150-2002	+5V / 15A	+12V / 5A		
REL-150-2003	+5V / 15A	+24V / 3A		
REL-150-2004	+12V / 7.5A	-12V / 5A		
REL-150-2005	+15V / 5A	-15V / 5A		
REL-150-3001	+5V / 15A	+12V / 4A		-12V / 3A
REL-150-3002	+5V / 15A	+15V / 3A		-15V / 2A
REL-150-3003	+22V / 3.5A	-22V / 3.5A	+24V / 1A	
REL-150-3004	+5V / 6A	+12V / 7A		-12V / 3A
REL-150-3005	+5.5V / 15A	+15.5V / 3A		+15.5V / 2A

Non-standard customer specified and Isolated outputs available.

See next page for quad outputs models and mechanical details

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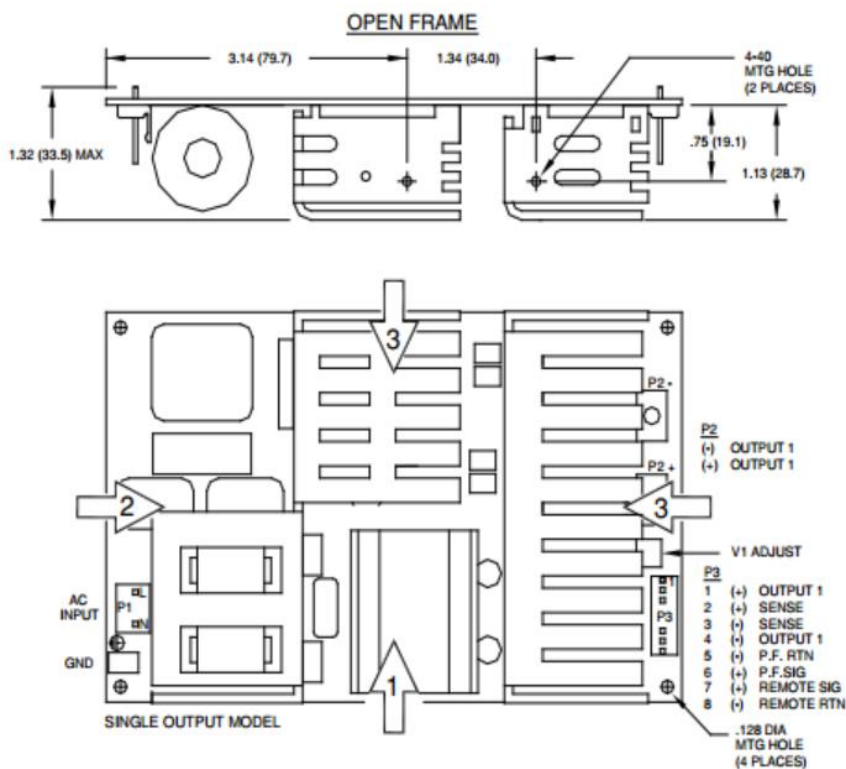
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Quad Output Models (maximum total power 150 Watts, see temperature derating details above).
 Non-standard customer specified and Isolated Outputs are available.

Model	Output 1	Output 2	Output 3	Output 4
REL-150-4001	+3.3 V / 15A	+5V / 8A	+12V / 2A	-12V / 2A
REL-150-4002	+5 V / 15A	+3.3V / 8A	+12V / 2A	-12V / 2A
REL-150-4003	+5 V / 15A	+3.3V / 8A	+15V / 2A	-15V / 2A
REL-150-4004	+5 V / 15A	-5V / 8A	+12V / 2A	-12V / 2A
REL-150-4005	+5 V / 15A	-5V / 8A	+15V / 2A	-15V / 2A
REL-150-4006	+5 V / 15A	+24V / 3A	+12V / 2A	-12V / 2A
REL-150-4007	+5 V / 15A	+24V / 3A	+15V / 2A	-15V / 2A
REL-150-4009	+24 V / 2.3A	+10V / 1A	+6V / 1.6A	-6V / 0.31A
REL-150-4010	5 V / 15A	12V / 5A	24V / 1A	24V / 1A

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
7	Remote On/Off
8	Remote RTN

P2 Main Output	
Terminal	Function
1	-V Out
2	+V Out

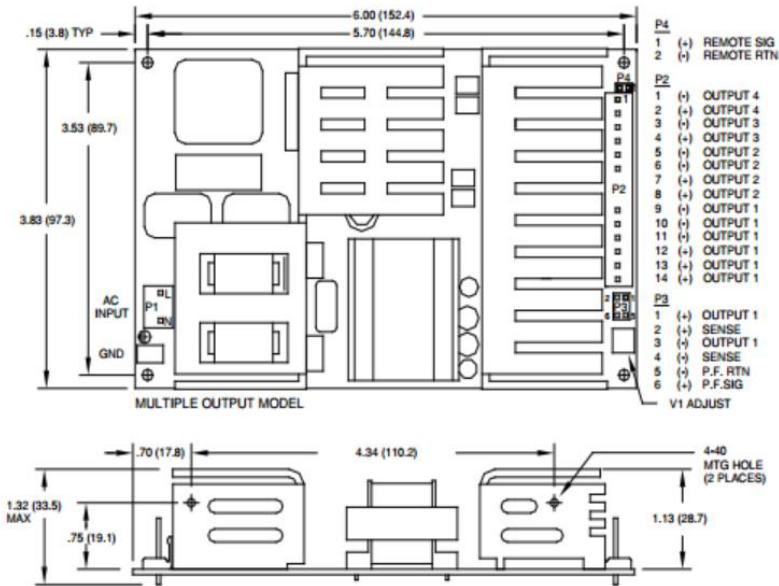
Remote On/Off is Optional
 Input Screw terminals available

Non-standard customer specified and Isolated Outputs also available.

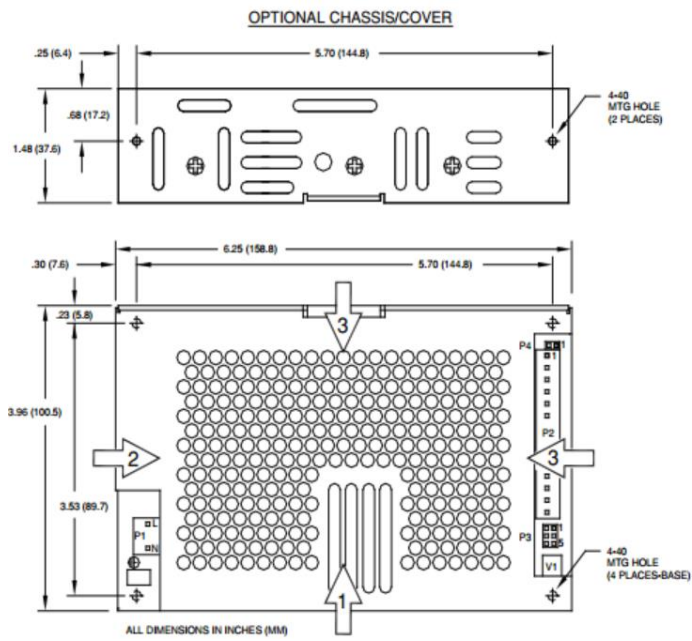
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Mechanical Details

Multi Output Models (identical to single output units except for output connections and signals).



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 2
8	+V Output 2
9	-V Output 1
10	+V Output 1
11	-V Output 1
12	+V Output 1
13	-V Output 1
14	+V Output 1



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

P4 Option	
Pin	Function
1	+ Remote SIG
2	+ Remote RTN

Output screw terminals available as an option
 Non-standard Customer specified and Isolated outputs available.

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

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