



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

- Universal 85~264 VAC Input
- High Efficiency
- Very Compact Size (fit within 1U Height)
- 2-Year Warranty
- Remote Sense, Power Fail & Remote on/off (option)
- One to Four Outputs
- Industrial & Medical Approvals
- Optional Safety Cover, Isolated Outputs & Screw Terminals
- 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.....	135 Watts convection cooled, 185 Watts fan cooled
Over Load Protection.....	110%-160%
Over Voltage Protection.....	Output 1 : 110%-150%
Start Up Time.....	5 Seconds with 120 Volts AC Input
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	135 Watts to +50°C, derate to 70 Watts at +70°C
Full Cased Convection Cooled.....	110 Watts to +50°C, derate to 60 Watts at +70°C
With Forced Air Cooling, Cased or Open Frame....	185 Watts to +50°C, derate to 90 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.....	Plug In Molex (Screw Terminal option)
Dimensions Open Frame.....	177.8(L) x 107.9(W) x 38.1(H) mm
Optional Safety Cover.....	183.6(L) x 110.7(W) x 44.2(H) mm

Models and Ratings (maximum total power 185 Watts, see temperature derating details above).

Model	Output 1	Output 2	Output 3	Output 4
REL-185-1001	2.5V / 37A			
REL-185-1002	3.3V / 37A			
REL-185-1003	5V / 37A			
REL-185-1004	12V / 15.4A			
REL-185-1005	15V / 12.3A			
REL-185-1006	24V / 7.7A			
REL-185-1007	28V / 6.6A			
REL-185-1008	48V / 3.8A			
REL-185-1009	6.3V / 29A			
REL-185-2001	+3.3V / 20A	+5V / 10A		
REL-185-2002	+5V / 20A	+12V / 8A		
REL-185-2003	+5V / 20A	+24V / 4A		
REL-185-2004	+12V / 10A	-12V / 6A		
REL-185-2005	+15V / 8A	-15V / 5A		
REL-185-2006	+15V / 6A	+24V / 4A		
REL-185-2007	+35V / 3.5A	+12V / 5.2A		
REL-185-3001	+5V / 20A	+12V / 5A		-12V / 3A
REL-185-3002	+5V / 20A	+15V / 4A		-15V / 3A

Isolated Outputs and Non-standard customer specified outputs are available on request.
See next page for quad output models and mechanical details

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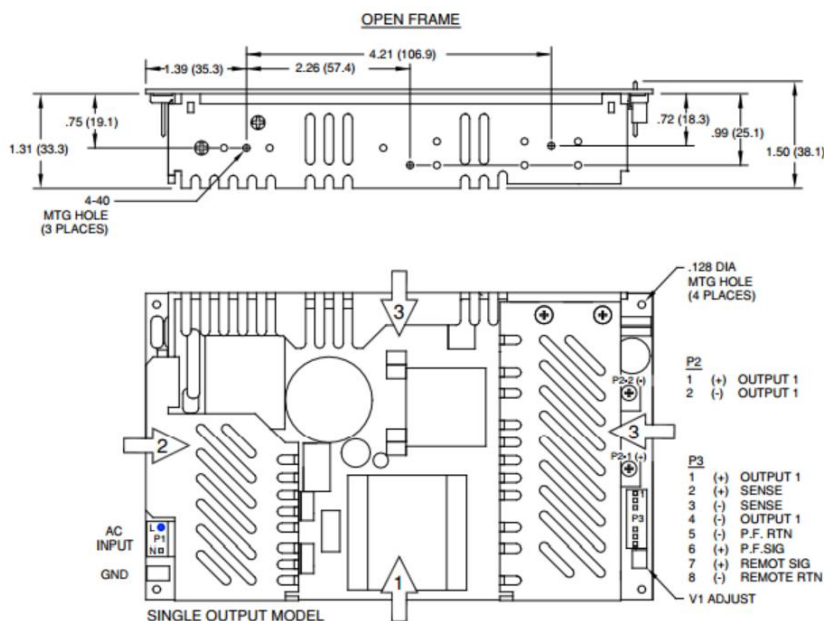
Quad Output Models (maximum total power 185 Watts, see temperature derating details above).
Isolated Outputs and Non-standard customer specified outputs available on request.

Model	Output 1	Output 2	Output 3	Output 4
REL-185-4001	+3.3 V / 20A	+5V / 10A	+12V / 2A	-12V / 2A
REL-185-4002	+5 V / 20A	+3.3V / 10A	+12V / 2A	-12V / 2A
REL-185-4003	+5 V / 20A	+3.3V / 10A	+15V / 2A	-15V / 2A
REL-185-4004	+5 V / 20A	-5V / 10A	+12V / 2A	-12V / 2A
REL-185-4005	+5 V / 20A	-5V / 10A	+15V / 2A	-15V / 2A
REL-185-4006	+5 V / 20A	+24V / 3A	+12V / 2A	-12V / 2A
REL-185-4007	+5 V / 20A	+24V / 3A	+15V / 2A	-15V / 2A

Mechanical Details

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

Overall size of all units are identical but Output and Signal connections are different.



Air Flow Direction

when fan cooled

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 SIG
8	Remote RTN

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

Remote on/off is optional.

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

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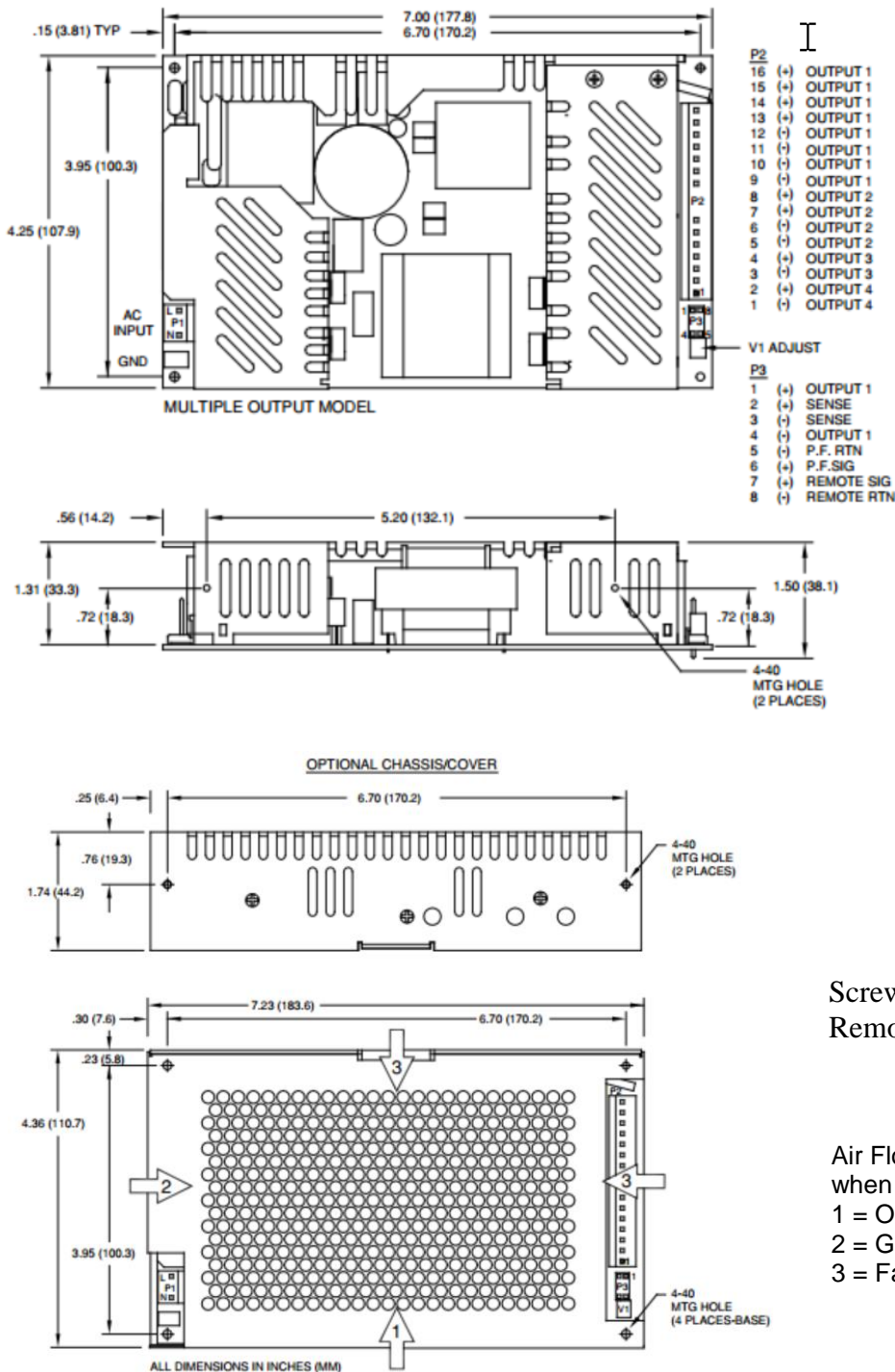


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Mechanical Details

Multi Output Models



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
15	+V Output 1
16	+V Output 1

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

Screw terminal connection option
 Remote on/off is optional.

Air Flow Direction
 when fan cooled
 1 = Optimum
 2 = Good
 3 = Fair

Isolated or Non-standard customer specified Outputs are also available.

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