

- 1 to 12 Outputs
- Rugged Design
- 90-264 VAC Input
- Fully Floating Outputs
- Fully Featured Signal Set
- Industry Leading Power Density

Specification

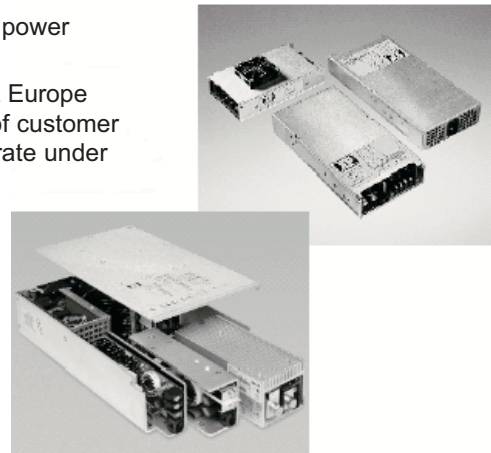
Input		DC OK	• TTL compatible, See Application Notes
Input Voltage	• 90-264 VAC	Power Fail	• TTL compatible, See Application Notes
Input Frequency	• 47 to 63 Hz	Housekeeping	• 5V at 1A
Inrush Current	• 40 A pk max		
Power Factor	• Compliant with EN61000-3-2	General	
Output		Efficiency	• 75% typical at nominal input
Output Voltage	• Dependant on module selected See Module Table	Environmental	
Output Voltage Adjustment	• ±5% typical all outputs	Operating Temperature	• 0 °C to +70 °C (for operating above 50°C derate linearly to 50% at +70°C for standard models and above 40°C to 50% at 60°C for reverse air models)
Hold Up Time	• 20 ms min	Storage Temperature	• -40 °C to +85 °C
Line Regulation	• Typically 0.1%, maximum 0.3%	Operating Altitude	• -350 to 7500 ft with no derating
Load Regulation	• 1% max for single output modules & V1 of dual & triple output modules. 2% max for V2 & V3 of dual & triple output modules. The E module requires upto 10% load & the K module upto 5% load on V1 to achieve the specified regulation figures on V2 & V3 outputs.	Temperature Coefficient	• 0.03%/°C
Ripple & Noise	• 50 mV or 1% pk-pk, whichever is greater, 20 MHz bandwidth	EMC & Safety	
Overvoltage Protection	• 115-130% of nominal output for single output & output 1 of dual & triple output modules. No OVP fitted to G modules and H modules	EMC	• EN55022 Class B conducted EN61000-4-2 Level 3, Perf Criteria B EN61000-4-3 Level 3, Perf Criteria B EN61000-4-4 Level 3, Perf Criteria B EN61000-4-5 Level 3, Perf Criteria B EN61000-4-6 Level 3, Perf Criteria B
Overload Protection	• <140% max of nominal rating	Safety Approvals	• EN60950, UL1950, CSA22.2-No 950, CE Marked LVD
Remote Sense	• See Application Notes		
Current Sharing	• Single wire parallel current share, See Application Notes		
Inhibit	• TTL compatible, See Application Notes		

Configured Power Supply Benefits

Our configured power supplies bring you all the benefits of custom power solutions without any of the associated risks.

Chassis and modules are held in stock at our locations throughout Europe and North America and are configured to meet a very wide range of customer requirements with guaranteed fast delivery times. All locations operate under the control of our ISO9001 quality management system and hold additional accreditation to UL, CSA & TUV so that each solution can be easily integrated into our customers' products and fully supported through the design phase to allow for last minute design changes.

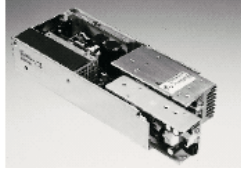
The following pages give details of how to configure your own solution, however, should you need further assistance then please contact your local sales office.



CoolPower
Solutions



Model Selection & Power Supply Construction



STEP 1

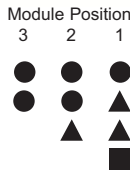
In order to configure a model number for your MP Series power supply, first select the appropriate chassis dependant on your applications continuous, maximum output power requirements.

STEP 2

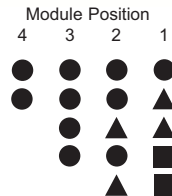
Next, from the ratings on the following page, select the output modules that suit your output voltage and current requirements. Modules can be positioned as denoted by the ■, ▲ and ● sequence shown below.

Once the chassis & output modules have been selected, form the model number as shown below.

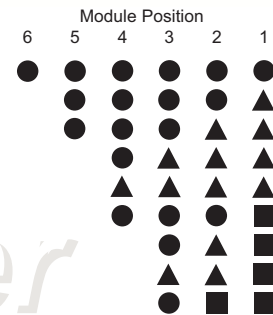
F3 (300 W) & FF (350 W)



F4 (400 W)⁽¹⁾ & F6 (600 W)⁽¹⁾ & F7 (700 W)⁽¹⁾



F8 (800 W)⁽¹⁾ & FX (1000 W)⁽¹⁾



Note

1. Output power can be increased by 200 W if used only at 180-264 VAC input.

Model Number Construction

Chassis Power	Module Position 1	Module Position 2	Module Position 3	Module Position 4	Module Position 5	Module Position 6	Option	Option							
F	7	B	3	J	6	J	6	G	2					22	1R
Add the chassis code first. F7 = 700W Chassis	Add Module 1 ■ 5 V @ 60 A	Add Module 2 J6 = ● Single O/P 24 V @ 8 A	Add Module 3 J6 = ● Single O/P 24 V @ 8 A	Add Module 4 G2 = ● Dual O/P 15 V @ 3 A 15 V @ 3 A F4, F6, F7, F8 & FX only	Add Module 5 F8 & FX only	Add Module 6 F8 & FX only	Denotes J6 modules in parallel to give 24 V @ 16 A	Denotes reverse air flow							

(For single slot, single O/P modules (●), insert highest power first and the lowest voltage if power is equal.)

Option Codes

No. Option	Function
01 2 B modules	parallel connect in slots 1 & 2
02 2 B modules	parallel connect in slots 2 & 3
03 2 B modules	parallel connect in slots 3 & 4
04 2 B modules	parallel connect in slots 1 & 2 and 2 B modules parallel connect in slots 3 & 4
05 2 C modules	parallel connect in slots 1 & 2 (2 V to 8 V)
06 2 C modules	parallel connect in slots 1 & 2 (18 V to 48 V)
21 2J modules	parallel connect in slots 1 & 2
22 2J modules	parallel connect in slots 2 & 3
23 2J modules	parallel connect in slots 3 & 4
24 2J modules	parallel connect in slots 4 & 5
25 2J modules	parallel connect in slots 5 & 6
1R Reverse Air	fans in exhaust configuration using standard fans
1S Low Noise	standard (air inflow) configuration using Low Noise fans (F8 & FX only)
2R Reverse Air	fans in exhaust configuration using Low Noise fans (F8 & FX only)

NOTE: Consult sales for 1200-2400 W model numbers

OUTPUT VOLTAGE & CURRENT RATINGS - SINGLE OUTPUT MODULES																		MP	
VOLTS	CURRENT	MODULE CODE	MODULE SIZE	VOLTS	CURRENT	MODULE CODE	MODULE SIZE	VOLTS	CURRENT	MODULE CODE	MODULE SIZE	VOLTS	CURRENT	MODULE CODE	MODULE SIZE	VOLTS	CURRENT	MODULE CODE	MODULE SIZE
2.0 VOLTS				2.2 VOLTS				3 VOLTS				3.3 VOLTS				5 VOLTS			
2.0 V	20.0 A	A1	●	2.2 V	20.0 A	AA	●	3.0 V	20.0 A	AB	●	3.3 V	20.0 A	A2	●	5.0 V	7.0 A	H3	●
2.0 V	35.0 A	J1	●	2.2 V	35.0 A	JA	●	3.0 V	35.0 A	JB	●	3.3 V	35.0 A	J2	●	5.0 V	20.0 A	A3	●
2.0 V	60.0 A	B1	▲	2.2 V	60.0 A	BA	▲	3.0 V	60.0 A	BB	▲	3.3 V	60.0 A	B2	▲	5.0 V	35.0 A	J3	●
2.0 V	100.0 A	C1	■	2.2 V	100.0 A	CA	■	3.0 V	100.0 A	CB	■	3.3 V	100.0 A	C2	■	5.0 V	60.0 A	B3	▲
5.2 VOLTS				5.5 VOLTS				6 VOLTS				8 VOLTS				10 VOLTS			
5.2 V	7.0 A	HC	●	5.5 V	7.0 A	HD	●	6.0 V	17.0 A	AE	●	8.0 V	12.5 A	AF	●	10.0 V	10.0 A	AG	●
5.2 V	20.0 A	AC	●	5.5 V	20.0 A	AD	●	6.0 V	23.0 A	JE	●	8.0 V	20.0 A	JF	●	10.0 V	18.0 A	JG	●
5.2 V	35.0 A	JC	●	5.5 V	35.0 A	JD	●	6.0 V	50.0 A	BE	▲	8.0 V	40.0 A	BF	▲	10.0 V	25.0 A	BG	▲
5.2 V	60.0 A	BC	▲	5.5 V	55.0 A	BD	▲	6.0 V	80.0 A	CE	■	8.0 V	60.0 A	CF	■				
5.2 V	100.0 A	CC	■	5.5 V	90.0 A	CD	■												
11 VOLTS				12 VOLTS				14 VOLTS				15 VOLTS				18 VOLTS			
11.0 V	4.0 A	HH	●	12.0 V	4.0 A	H4	●	14.0 V	3.0 A	HJ	●	15.0 V	3.0 A	H5	●	18.0 V	11.0 A	JK	●
11.0 V	10.0 A	AH	●	12.0 V	10.0 A	A4	●	14.0 V	8.0 A	AJ	●	15.0 V	8.0 A	A5	●	18.0 V	17.0 A	BK	▲
11.0 V	18.0 A	JH	●	12.0 V	17.0 A	J4	●	14.0 V	14.0 A	JJ	●	15.0 V	13.0 A	J5	●	18.0 V	25.0 A	CK	■
11.0 V	25.0 A	BH	▲	12.0 V	25.0 A	B4	▲	14.0 V	20.0 A	BJ	▲	15.0 V	20.0 A	B5	▲				
20 VOLTS				24 VOLTS				28 VOLTS				30 VOLTS				33 VOLTS			
20.0 V	6.0 A	AM	●	24.0 V	2.0 A	H6	●	28.0 V	5.0 A	A7	●	30.0 V	5.0 A	AN	●	33.0 V	4.0 A	AP	●
20.0 V	10.0 A	JM	●	24.0 V	6.0 A	A6	●	28.0 V	7.0 A	J7	●	30.0 V	7.0 A	JN	●	33.0 V	6.0 A	JP	●
20.0 V	17.0 A	BM	▲	24.0 V	8.0 A	J6	●	28.0 V	14.5 A	B7	▲	30.0 V	11.0 A	BN	▲	33.0 V	11.0 A	BP	▲
20.0 V	21.0 A	CM	■	24.0 V	17.0 A	B6	▲	28.0 V	18.0 A	C7	■	30.0 V	16.0 A	CN	■	33.0 V	14.0 A	CP	■
36 VOLTS				42 VOLTS				48 VOLTS				54 VOLTS				60 VOLTS			
36.0 V	4.0 A	A8	●	42.0 V	3.0 A	AR	●	48.0 V	3.0 A	A9	●	54.0 V	2.5 A	AS	●	60.0 V	2.0 A	AT	●
36.0 V	6.0 A	J8	●	42.0 V	5.0 A	JR	●	48.0 V	4.0 A	J9	●	54.0 V	3.7 A	JS	●	60.0 V	3.5 A	JT	●
36.0 V	11.1 A	B8	▲	42.0 V	8.5 A	BR	▲	48.0 V	8.5 A	B9	▲								
36.0 V	14.0 A	C8	■	42.0 V	10.5 A	CR	■	48.0 V	10.5 A	C9	■								

OUTPUT VOLTAGE & CURRENT RATINGS - DUAL OUTPUT MODULES					MP
Output V1		Output V2		Module	
				Code	Size
12 V @ 4 A		12 V @ 4 A		G1	●
15 V @ 3 A		15 V @ 3 A		G2	●
12 V @ 4 A		5 V @ 8 A		G3	●
15 V @ 3 A		24 V @ 2 A		G4	●
24 V @ 2 A		5 V @ 8 A		G5	●
5 V @ 8 A		5 V @ 8 A		G6	●
24 V @ 2 A		24 V @ 2 A		G7	●
5 V @ 10 A		5 V @ 10 A		K1 ⁽¹⁾	●
5 V @ 10 A		12 V @ 10 A		K2 ⁽¹⁾	●
5 V @ 10 A		15 V @ 8 A		K3 ⁽¹⁾	●
24 V @ 4 A		5 V @ 10 A		K4 ⁽¹⁾	●
12 V @ 10 A		12 V @ 4 A		K5 ⁽¹⁾	●
15 V @ 8 A		15 V @ 4 A		K6	●
5 V @ 10 A		12 V @ 10 A		D1	▲
12 V @ 10 A		12 V @ 10 A		D2	▲
5 V @ 10 A		24 V @ 5 A		D3	▲
15 V @ 8 A		15 V @ 8 A		D4	▲

Notes

1. K modules available Q2 2004.

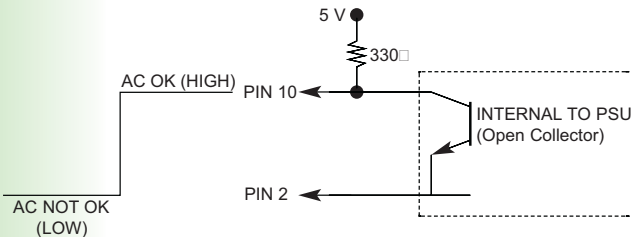
OUTPUT VOLTAGE & CURRENT RATINGS - TRIPLE OUTPUT MODULES					MP		
Output V1		Output V2		Output V3		Module	
						Code	Size
5 V @ 20 A		12 V @ 2 A		12 V @ 2 A		E1	▲
5 V @ 20 A		15 V @ 2 A		15 V @ 2 A		E2	▲
12 V @ 10 A		15 V @ 2 A		15 V @ 2 A		E3	▲

Application Notes

AC OK/Power Fail

Module A, J, B, C, E &

When fitted in module position 1 of the chassis, pins 10 and 2 provide a minimum of 5 ms warning of loss of output regulation.



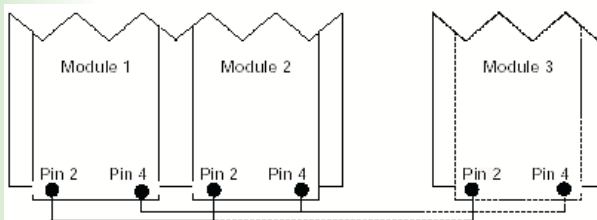
Modules in Parallel

Single output modules with the same part number and V1 of dual and triple output modules can be paralleled to obtain increased output current. These modules can be either fitted in the same chassis or different chassis with their outputs connected directly together and current share connections made, see below.

Current Share

Module A, J, B, C & V1 of E & K.

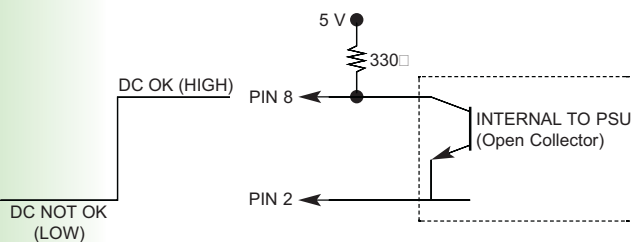
Connecting pins 2 & 4 of like part number modules (3 maximum) within the same chassis or separate chassis will force current share the outputs.



DC OK

Module A, J, B, C & V1 of D, E & K.

Pins 8 and 2 provide notification that the output voltage is within regulation via a logic 1.



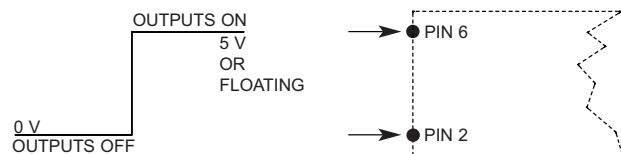
(Reverse logic option available, i.e. high or DC NOT OK).

Global Inhibit

Inhibiting the module fitted in position 1 will inhibit all outputs of other modules & the cooling fan. If individual inhibit is required on the module fitted in chassis position 1 alternate configurations are available, please consult our application engineering team.

Module A, J, B, C, E &

Pins 6 and 2 (return) provide on/off control of the module. Applying a logic '0' between these pins turns the outputs off. (E module pins 6 and 7). Open or logic high to enable.



(Reverse logic option available, i.e. high for outputs off or low for outputs on). Reverse logic is standard for the 'J' & 'K' modules via Pin 7.

Remote Sense

Module A, J, B, C, K & V1 of E.

Pins 1 (+ve) and 2 (-ve) provide compensation for voltage drops in application wiring up to a maximum of 0.5 V.

Module D.

Pins 2 (V2 -ve) and 7 (V1 -ve) provide compensation for voltage drops in the return of application wiring up to a maximum of 0.25 V.

Module H, G & V2, V3 of E.

Modules in Series

Single output modules can be connected in series to obtain alternate output voltages not available from a single module. For example a 10 V (AG module) can be connected in series with a 6 V (AE module) to obtain an output voltage of 16 V. For voltages >80 V consult sales for details.

Lower Earth Leakage Current

All chassis can be supplied with less than 300 μ A or 500 μ A earth leakage current as an option, conducted EMC is Class A with these options, consult sales for details and part numbering.

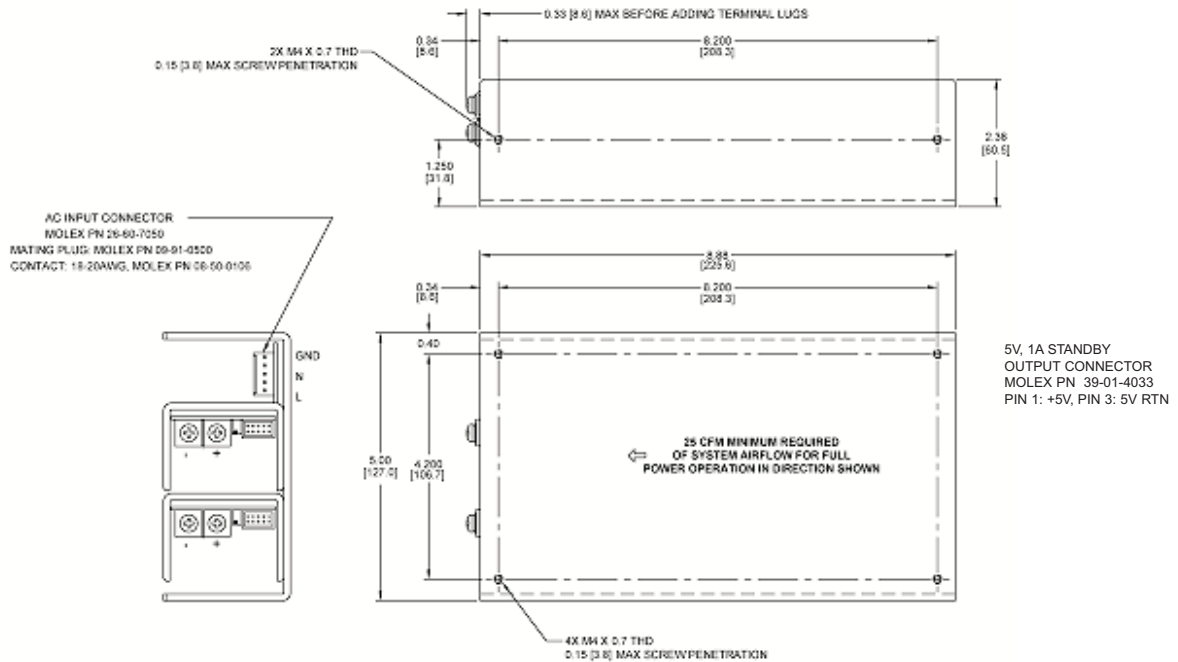
Output Voltage Programming

Module J

The voltage of the 'J' module can be remotely programmed via a 0-5 V signal, consult sales for details.

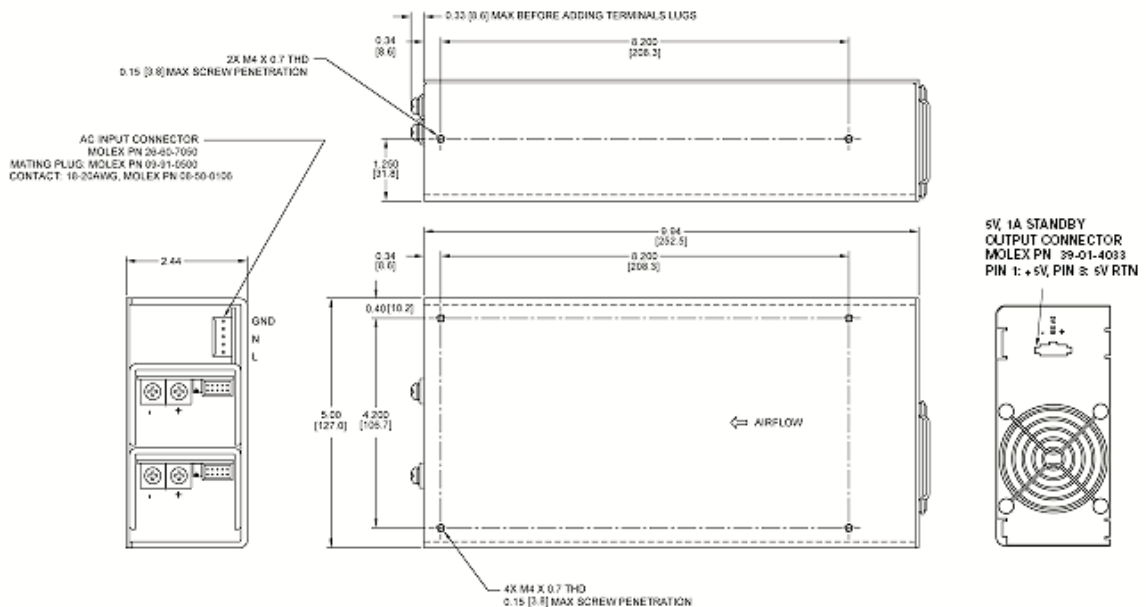
Mechanical Details - 300 Watt F3 Model

F3 Models do not have an integral fan & require system cooling



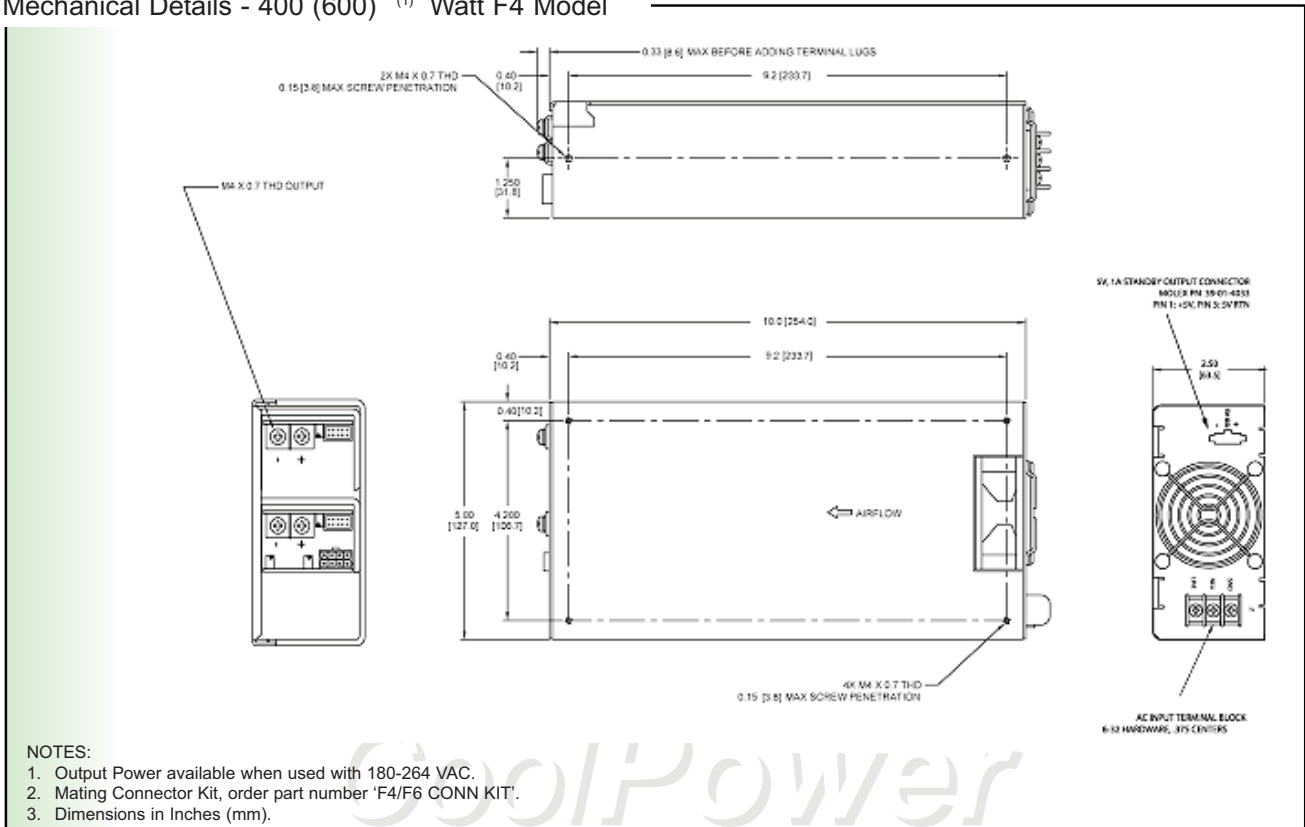
Mating Connector Kit, order part number 'F3/FF CONN KIT'
Dimensions in Inches (mm)

Mechanical Details - 350 Watt FF Model

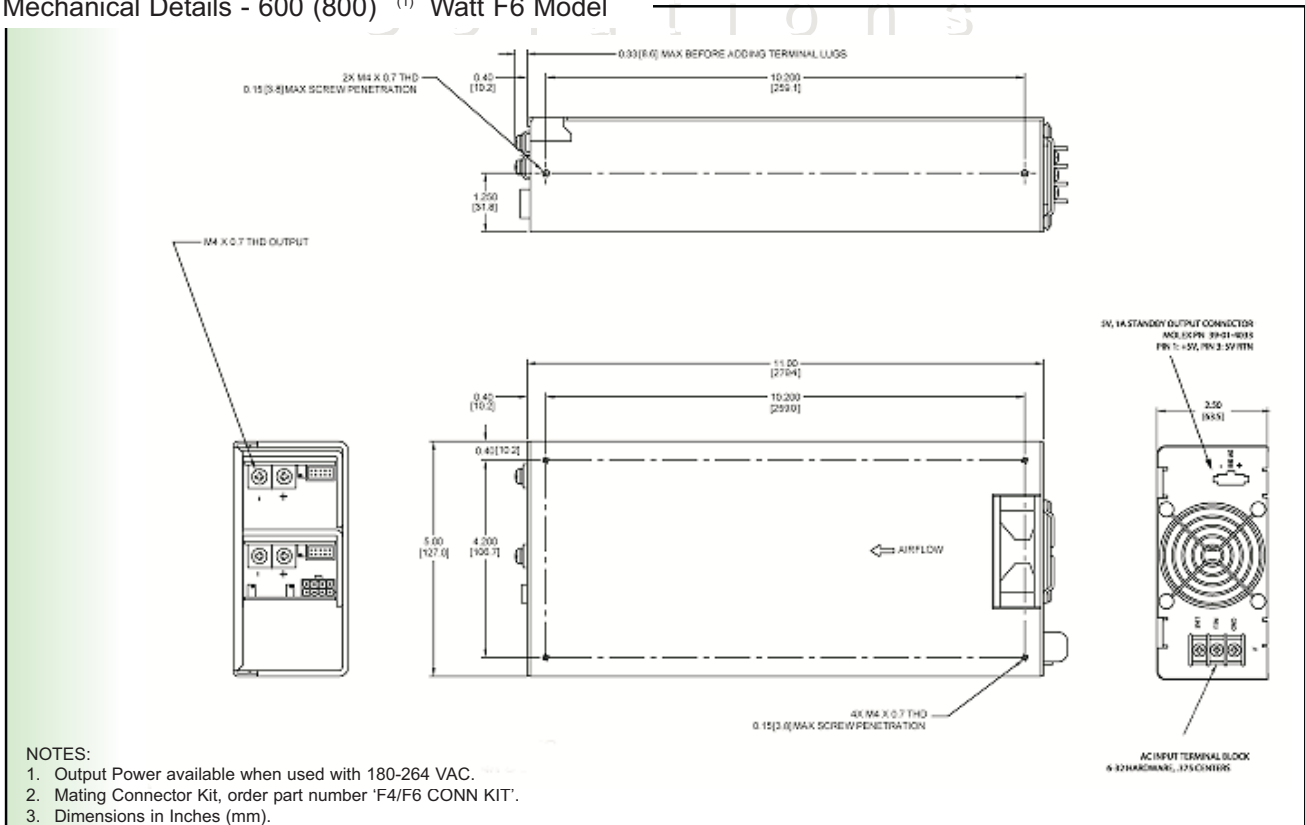


Mating Connector Kit, order part number 'F3/FF CONN KIT'
Dimensions in Inches (mm)

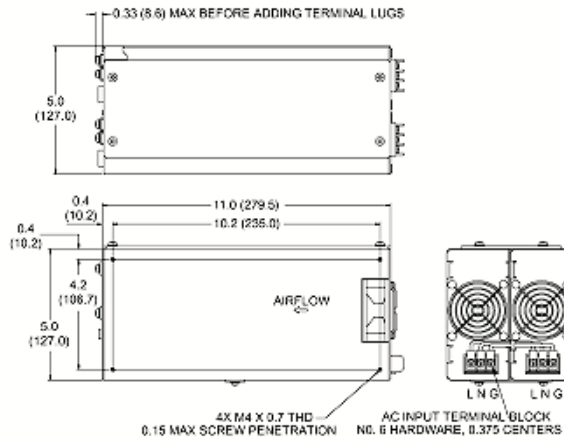
Mechanical Details - 400 (600) ⁽¹⁾ Watt F4 Model



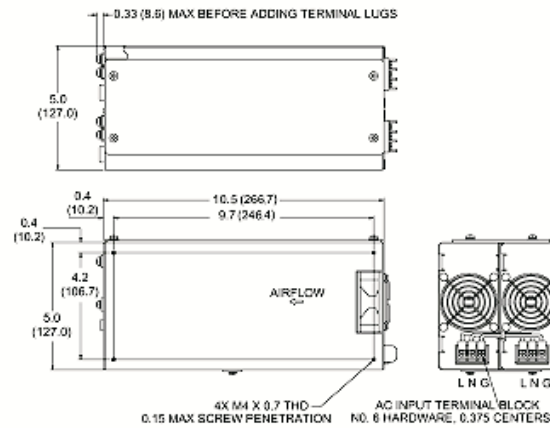
Mechanical Details - 600 (800) ⁽¹⁾ Watt F6 Model



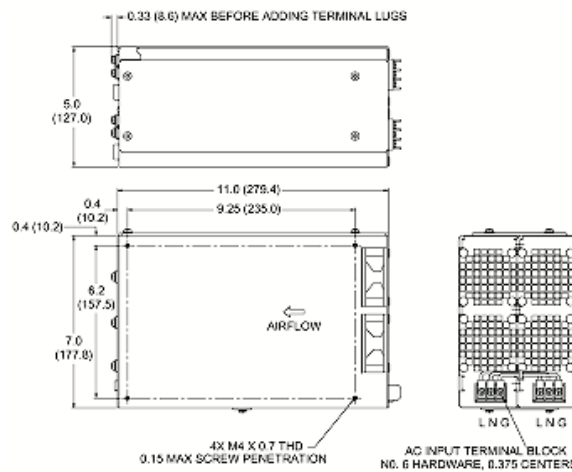
Mechanical Details - 1200 (1400) ⁽¹⁾ Watt F6DD Models



Mechanical Details - 1400 (1600) ⁽¹⁾ Watt F7DD Models



Mechanical Details - 1600 (2000) ⁽¹⁾ Watt F8DD/2000 (2400) ⁽¹⁾ Watt FXDD Models



NOTES:

1. Output Power available when used with 180-264 VAC.

Output Module Connection Details

<p>H Module Single Output Module Size ●</p> <p>OUTPUT TERMINAL BLOCK 6/32 SCREWS 0.375 CENTERS</p> <p>VOLTAGE ADJUST</p>	<p>A Module Single Output Module Size ●</p> <table border="1"> <thead> <tr> <th colspan="2">Logic Connector</th> </tr> <tr> <th>Pin</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>+ Sense</td></tr> <tr><td>2</td><td>- Sense</td></tr> <tr><td>3</td><td>+ Sense</td></tr> <tr><td>4</td><td>Current Share</td></tr> <tr><td>5</td><td>Not Used</td></tr> <tr><td>6</td><td>Inhibit</td></tr> <tr><td>7</td><td>- Sense</td></tr> <tr><td>8</td><td>DC OK</td></tr> <tr><td>9</td><td>Not Used</td></tr> <tr><td>10</td><td>Power Fail</td></tr> </tbody> </table> <p>AMP 87631-5</p> <p>OUTPUT HARDWARE NO. 6 HARDWARE 0.375 CENTERS</p> <p>VOLTAGE ADJUST</p> <p>LOGIC CONNECTOR</p>	Logic Connector		Pin	Function	1	+ Sense	2	- Sense	3	+ Sense	4	Current Share	5	Not Used	6	Inhibit	7	- Sense	8	DC OK	9	Not Used	10	Power Fail	<p>J Module Single Output Module Size ●</p> <table border="1"> <thead> <tr> <th colspan="2">Logic Connector</th> </tr> <tr> <th>Pin</th> <th>Function</th> </tr> </thead> <tbody> <tr><td>1</td><td>+ Sense</td></tr> <tr><td>2</td><td>- Sense</td></tr> <tr><td>3</td><td>Remote Voltage ADJ</td></tr> <tr><td>4</td><td>Current Share</td></tr> <tr><td>5</td><td>Current Monitor</td></tr> <tr><td>6</td><td>Inhibit Lo</td></tr> <tr><td>7</td><td>Inhibit Hi</td></tr> <tr><td>8</td><td>DC OK</td></tr> <tr><td>9</td><td>Alternate V Prog</td></tr> <tr><td>10</td><td>Power Fail</td></tr> </tbody> </table> <p>AMP 87631-5</p> <p>M4 X 0.7 THD OUTPUT HARDWARE</p> <p>VOLTAGE ADJUST</p> <p>LOGIC CONNECTOR</p>	Logic Connector		Pin	Function	1	+ Sense	2	- Sense	3	Remote Voltage ADJ	4	Current Share	5	Current Monitor	6	Inhibit Lo	7	Inhibit Hi	8	DC OK	9	Alternate V Prog	10	Power Fail																																																								
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