

## Intelligent MP Series

Up to 1500 Watts

**Total Power:** Up to 1500 Watts  
**Input Voltage:** 85 - 264 VAC  
120-300 VDC  
**# of Outputs:** Up to 21

iMP™



Rev. 10.4.06  
iMP Series  
1 of 8

### Special Features

- Full Medical EN60601 Approval
- Intelligent I<sup>2</sup>C Control
- Configurable Current Share on all outputs >10A
- Voltage adjustment on all outputs (Manual or I<sup>2</sup>C)
- Configurable Input and Output OK signals and indicators
- Configurable Inhibit/Enable
- Configurable Output UP/DOWN sequencing
- Intelligent fan (speed control/fault status)
- Customer Provided Air Option
- $\mu$ P Controlled PFC input with active Inrush protection
- I<sup>2</sup>C monitor of Voltage, Current, and Temp
- IPMI Compliant
- Programmable Voltage, Current Limit, Inhibit/Enable through I<sup>2</sup>C
- Optional Extended Hold-up Module (Semi F47 compliance)
- Power density increased by 50%
- Backward compatibility with standard MP
- External switching frequency sync input
- Optional Conformal Coating
- Industrial Temp Range
- No preload required

### Electrical Specifications

#### Input

|                       |                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Input range           | 85-264 VAC: 120-300 VDC<br>(Limited to 300VDC in medical applications)                                                           |
| Frequency             | 47-440 Hz                                                                                                                        |
| Inrush current        | 40A peak max. (soft start)                                                                                                       |
| Efficiency            | up to 85% @ full case load                                                                                                       |
| Power Factor          | 0.99 typ. meets EN61000-3-2                                                                                                      |
| Turn-on time          | AC on 1.5 sec typ., Inhibit / Enable 150 ms typ.<br>Programmable                                                                 |
| EMI Filter            | CISPR 22 / EN55022 Level "B"                                                                                                     |
| Leakage current       | 300 $\mu$ A max. @ 240 VAC; 47-63Hz                                                                                              |
| Radiated EMI          | CISPR 22 / EN55022 Level "B"                                                                                                     |
| Holdover storage      | 20 ms minimum (independent of input VAC) additional<br>34mSEC holdover storage with optional HUP module<br>(Semi F47 compatible) |
| AC OK                 | >5 ms early warning min. before outputs lose regulation.<br>Programmable. Full cycle ride thru (50 Hz)                           |
| Harmonic distortion   | Meets EN61000-3-2                                                                                                                |
| Isolation             | Meets EN60950 and EN60601                                                                                                        |
| Global Inhibit/Enable | TTL, Logic "1" and Logic "0". Configurable.                                                                                      |
| Input fuse (internal) | iMP4: 16A; iMP8: 20A; iMP1: 25A (both lines fused)                                                                               |
| Warranty              | 2 years                                                                                                                          |



## Output

|                                |                                                                                                                                                                                                                                                        |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Adjustment range*</b>       | ±10% minimum all outputs (manual)<br>(full module adjustment range using I <sup>2</sup> C)                                                                                                                                                             |
| Margining                      | ±4-6% nominal analog (single output module only)                                                                                                                                                                                                       |
| Overall reg                    | 0.4% or 20 mV max. (36W modules 4% max.)                                                                                                                                                                                                               |
| Ripple                         | RMS: 0.1% or 10 mV, whichever is greater<br>Pk-Pk: 1.0% or 50 mV, whichever is greater<br>Bandwidth limited to 20 MHz                                                                                                                                  |
| Dynamic response               | <2% or 100 mV, with 25% load step                                                                                                                                                                                                                      |
| Recovery time                  | To within 1% in <300 µsec.                                                                                                                                                                                                                             |
| <b>Overcurrent protection*</b> | Configurable through I <sup>2</sup> C. Single output module and main output of the dual output module 105-120% of rated output current. Aux output of dual output module 105-140% of rated output current<br>Triple output module internally protected |
| Short circuit protection       | Protected for continuous short circuit<br>Recovery is automatic upon removal of short                                                                                                                                                                  |
| <b>Overvoltage protection*</b> | Configurable through I <sup>2</sup> C                                                                                                                                                                                                                  |
| Single output module           | 2-5.5V 122-134% ; 6-60V 110-120%                                                                                                                                                                                                                       |
| Dual output module             | 2-6V 122-134% ; 8-28V 110-120%                                                                                                                                                                                                                         |
| Triple output module           | No overvoltage protection provided                                                                                                                                                                                                                     |
| Reverse voltage protection     | 100% of rated output current                                                                                                                                                                                                                           |
| <b>Thermal protection*</b>     | Configurable through I <sup>2</sup> C<br>All outputs disabled when internal temp exceeds safe operating range. >5 ms warning (AC OK signal) before shutdown                                                                                            |
| Remote sense                   | Up to 0.5 V total drop (not available on triple output module)                                                                                                                                                                                         |
| Singlewire parallel            | Configurable through firmware<br>Current share to within 2% of total rated current                                                                                                                                                                     |
| <b>DC OK*</b>                  | +/-5% of nominal. Configurable through I <sup>2</sup> C                                                                                                                                                                                                |
| Minimum load                   | Not required                                                                                                                                                                                                                                           |
| Housekeeping bias voltage      | 5 VDC @1.0Amp max. present whenever AC input is applied                                                                                                                                                                                                |
| <b>Module inhibit*</b>         | Configured and controlled through I <sup>2</sup> C                                                                                                                                                                                                     |
| Switching frequency            | 250 kHz accepts external sync signal                                                                                                                                                                                                                   |
| Output/Output isolation        | >1 Megohm, 500V                                                                                                                                                                                                                                        |
| <b>VME signal*</b>             | DC OK signal programmable through I <sup>2</sup> C to function as POR signal                                                                                                                                                                           |

\*Can be controlled via I<sup>2</sup>C

## Environmental Specifications

|                                |                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------|
| Operating temperature          | -40° to 70°C ambient. Derate each output 2.5% per degree from 50° to 70°C.<br>(-20°C start up) |
| Storage temperature            | -40°C to +85°C                                                                                 |
| Electromagnetic susceptibility | Designed to meet EN61000-4; -2, -3, -4, -5, -6, -8, -11 Level 3                                |
| Humidity                       | Operating; non-condensing 10% to 95% RH                                                        |
| Vibration                      | IEC68-2-6 to the levels of IEC721-3-2                                                          |
| MTBF demonstrated              | >550,000 hours at full load, 220VAC and 25°C ambient conditions                                |

## Safety

|      |                                        |
|------|----------------------------------------|
| UL   | UL60950/UL2601                         |
| CSA  | CSA22.2 No. 234 Level 5                |
| VDE  | EN60950/EN60601                        |
| BABT | Compliance to EN 60950/EN60601 BS 7002 |
| CB   | Certificate and report                 |
| CE   | Mark to LVD                            |

## Output Module Line-up

| Module Code                               | 1      | 2      | 3      | 4                                   | None              |
|-------------------------------------------|--------|--------|--------|-------------------------------------|-------------------|
| Module Type                               | Single | Single | Single | Dual                                | Triple            |
| Max output power                          | 210W   | 360W   | 750W   | 144W                                | 36W               |
| Max output current                        | 35A    | 60A    | 150A   | 10A                                 | 2A                |
| Output voltages available*                | 2-60V  | 2-60V  | 2-60V  | 5, 12-15, 28-30V 2-6, 12-15, 28-30V | 8-15V 8-28V 2-28V |
| Standard voltage increments               | 25     | 25     | 25     | 19                                  | 18                |
| Remote sense                              | Yes    | Yes    | Yes    | Yes                                 | No                |
| Remote margin                             | Yes    | Yes    | Yes    | No                                  | No                |
| V-Program - I <sup>2</sup> C Control      | Yes    | Yes    | Yes    | Yes                                 | Yes               |
| Active Current Share                      | Yes    | Yes    | Yes    | Yes                                 | No                |
| Module Inhibit - I <sup>2</sup> C Control | Yes    | Yes    | Yes    | Yes                                 | Yes               |
| Module Inhibit - Analog                   | Yes    | Yes    | Yes    | No                                  | No                |
| Over voltage / Over current protection    | Yes    | Yes    | Yes    | Yes                                 | Yes               |
| Minimum load required                     | No     | No     | No     | No                                  | No                |
| Slots occupied in any iMP case            | 1      | 2      | 3      | 1                                   | 1                 |

\*Programmable

## Ordering Information

| PARALLEL CODES |        |        |        |        |        |        |                      |
|----------------|--------|--------|--------|--------|--------|--------|----------------------|
| Slot 7         | Slot 6 | Slot 5 | Slot 4 | Slot 3 | Slot 2 | Slot 1 |                      |
|                |        |        |        |        |        |        | iMP4 available slots |
|                |        |        |        |        |        |        | iMP8 available slots |
|                |        |        |        |        |        |        | iMP1 available slots |
| 7              | 6      | 5      | 4      | 3      | 2      | 1      |                      |
| •              | •      | •      | •      | •      | •      | •      | 0 = no parallel      |
| •              | •      | •      | •      | •      | •      | •      | 1 = 1 & 2            |
| •              | •      | •      | •      | •      | •      | •      | 2 = 2 & 3            |
| •              | •      | •      | •      | •      | •      | •      | 3 = 3 & 4            |
| •              | •      | •      | •      | •      | •      | •      | 4 = 4 & 5            |
| •              | •      | •      | •      | •      | •      | •      | 5 = 3 & 4 & 5        |
| •              | •      | •      | •      | •      | •      | •      | 6 = 5 & 6            |
| •              | •      | •      | •      | •      | •      | •      | 7 = 4 & 5 & 6        |
| •              | •      | •      | •      | •      | •      | •      | 8 = 6 & 7            |
| •              | •      | •      | •      | •      | •      | •      | 9 = 3 & 4, 6 & 7     |

## Output Module Voltage/Current

| Voltage  | Voltage Code | Single Output Module Code |       |       | Dual Output |     | Triple Output |      |      | PC Adjustment Ranges |
|----------|--------------|---------------------------|-------|-------|-------------|-----|---------------|------|------|----------------------|
|          |              | 1                         | 2     | 3     | V1          | V2  | V1            | V2   | V3   |                      |
| 2V       | A            | 35A                       | 60A   | 150A  | —           | 10A | —             | —    | 2A   | 1.8 - 6.1            |
| 2.2V     | B            | 35A                       | 60A   | 150A  | —           | 10A | —             | —    | 2A   |                      |
| 3V       | C            | 35A                       | 60A   | 150A  | —           | 10A | —             | —    | 2A   |                      |
| 3.3V     | D            | 35A                       | 60A   | 150A  | —           | 10A | —             | —    | 2A   |                      |
| 5V       | E            | 35A                       | 60A   | 150A  | 10A         | 10A | —             | —    | 2A   |                      |
| 5.2V     | F            | 35A                       | 60A   | 150A  | —           | 10A | —             | —    | 2A   |                      |
| 5.5V     | G            | 34A                       | 58A   | 137A  | —           | 10A | —             | —    | 2A   | 5.4 - 13.2           |
| 6.0V     | H            | 23A                       | 42A   | 80A   | —           | 10A | —             | —    | 2A   |                      |
| 8.0V     | I            | 20A                       | 36A   | 80A   | —           | —   | 1A            | 1A   | 1A   |                      |
| 10V      | J            | 18A                       | 32A   | 75A   | —           | —   | 1A            | 1A   | 1A   |                      |
| 11V      | K            | 17A                       | 31A   | 68A   | —           | —   | 1A            | 1A   | 1A   |                      |
| 12V      | L            | 17A                       | 30A   | 62.5A | 10A         | 4A  | 1A            | 1A   | 1A   |                      |
| 14V      | M            | 14A                       | 21A   | 53.5A | 9A          | 4A  | 1A            | 1A   | 1A   | 12.6 - 22.0          |
| 15V      | N            | 14A                       | 20A   | 50A   | 8A          | 4A  | 1A            | 1A   | 1A   |                      |
| 18V      | O            | 11A                       | 19A   | 41.6A | —           | —   | —             | 0.5A | 0.5A |                      |
| 20V      | P            | 10.5A                     | 18A   | 37.5A | —           | —   | —             | 0.5A | 0.5A |                      |
| 24V      | Q            | 8.5A                      | 15A   | 31.3A | 4A          | 2A  | —             | 0.5A | 0.5A |                      |
| 28V      | R            | 6.7A                      | 12.8A | 26.8A | 3A          | 2A  | —             | 0.5A | 0.5A |                      |
| 30V      | S            | 6.5A                      | 12A   | 25A   | —           | —   | —             | —    | —    | 21.6 - 39.6          |
| 33V      | T            | 6.2A                      | 11A   | 22.7A | —           | —   | —             | —    | —    |                      |
| 36V      | U            | 5.8A                      | 10A   | 20.8A | —           | —   | —             | —    | —    |                      |
| 42V      | V            | 4.2A                      | 7.5A  | 17.9A | —           | —   | —             | —    | —    |                      |
| 48V      | W            | 4.0A                      | 7.5A  | 15.6A | —           | —   | —             | —    | —    |                      |
| 54V      | X            | 3.7A                      | 6.0A  | 13.9A | —           | —   | —             | —    | —    |                      |
| 60V      | Y            | 3.5A                      | 6.0A  | 12.5A | —           | —   | —             | —    | —    | 37.8 - 60.0          |
| Non-std* | Z            |                           |       |       |             |     |               |      |      |                      |

\*Note: Increments of current not shown can be achieved by paralleling modules (add currents of each module selected).

| Case Size                                                                                                                                                                                                                                                                                                                                      | Module/Voltage/Option Codes<br>First - Module Code<br>Second - Voltage Code<br>Third - Option Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Add-on Modules<br>Requires 1 slot each        | Case Option Codes                                                                                                                                                                                                                                                                       | Software Code                                                                                         | Hardware Code |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------|
| iMP1 *                                                                                                                                                                                                                                                                                                                                         | - 3L0-2E2-1Q1-4LL0 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | HUP                                           | 00                                                                                                                                                                                                                                                                                      | A                                                                                                     | ###           |
| <b>Case Size (mm)</b><br>4 = 2.5" x 5" x 10"; 750W - 1100W, 5 Slots (63.5 x 127 x 254)<br>8 = 2.5" x 7" x 10"; 1000W - 1200W, 6 Slots (63.5 x 177.8 x 254)<br>1 = 2.5" x 8" x 11"; 1200W - 1500W, 7 Slots (63.5 x 203.2 x 279.4)<br><br>*Note: Add "-E" after iMP4 to denote IEC input option. eg. iMP4-E-... (Not available on iMP8 or iMP1.) | <b>Module Codes</b><br>Module/Voltage/Option Codes<br>Module Codes:<br>(None) = 36W Triple O/P (1 slot)<br>1 = 210W Single O/P (1 slot)<br>2 = 360W Single O/P (2 slot)<br>3 = 750W Single O/P (3 slot)<br>4 = 144W Dual O/P (1 slot)<br>5 - 9 = Future<br><br><b>Voltage Codes:</b><br>See Output Module Voltage/Current table above<br><br><b>Option Codes:</b><br>0 = Standard<br>1 = Module Enable<br>2 = Constant Current<br>3 - 9 = Future<br><br><b>Note:</b> For additional 30mSec hold-up add module code HUP in the last module position. (Takes up 1 slot) | <b>Add-on Modules</b><br>HUP = Hold up module | <b>Case Option Codes</b><br>First Digit<br>0 - 9 = Parallel Code<br><br>Second Digit<br>0 = No Options<br>1 = Reverse Air<br>2 = Not Used<br>3 = Global Enable<br>4 = Fan Off w/Inhibit<br>5 = Opt 1 + Opt 3<br>6 = Opt 1 + Opt 4<br>7 = Opt 3 + Opt 4<br>8 = Opt 1 +3 +4<br>9 = Future | Factory Assigned for Modified Standards<br>Standard is "A" - Software Code<br>"Blank" - Hardware Code |               |

# Drawings

## iMP Modules

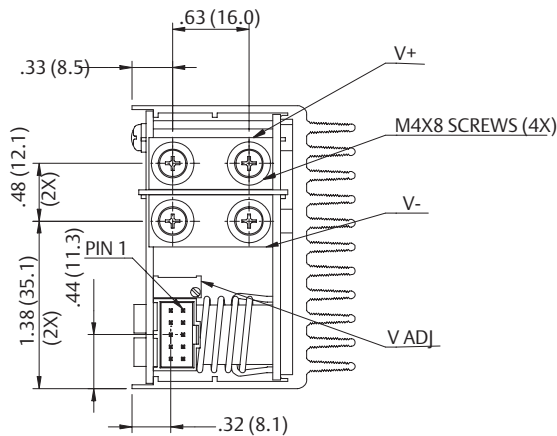
### DC-DC Converter Output Modules

Control Signal Information, J1 Control Connector

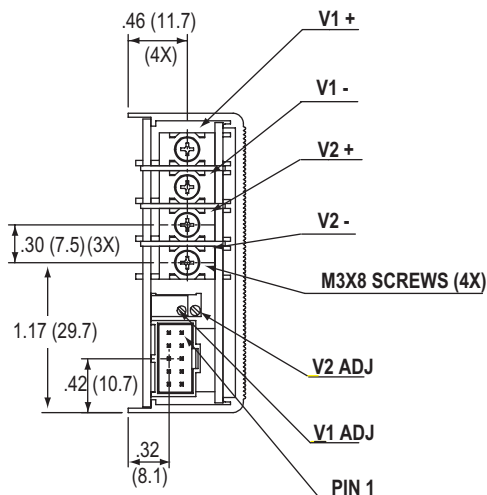
| Pin No. | Function                    |                           |
|---------|-----------------------------|---------------------------|
| 1       | + Remote Sense              | single or dual o/p main   |
| 2       | Remote Margin / V. Program  | single o/p                |
| 3       | Margin High                 | single o/p                |
| 4       | - Remote Sense / Margin Low | single or dual o/p main   |
| 5       | Spare                       |                           |
| 6       | Module, Isolated Inhibit    | single or dual o/p        |
| 7       | Module Inhibit return       | single or dual o/p        |
| 8       | Current Share (SWP)         | single or dual o/p main   |
| 9       | + Remote Sense V2           | dual o/p, single is spare |
| 10      | - Remote Sense V2           | dual o/p, single is spare |

\*Note: All iMP modules have a green DCOK LED.

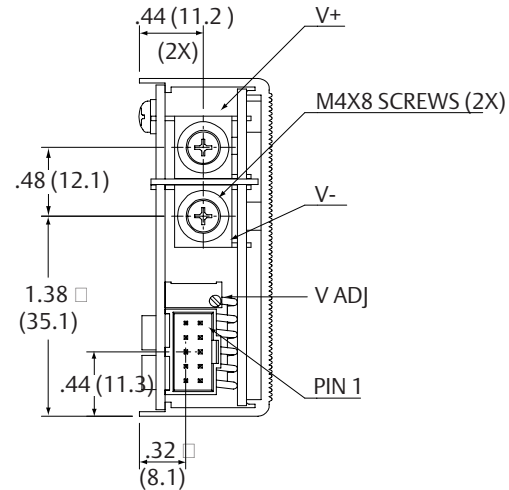
#### Single 360 Watt



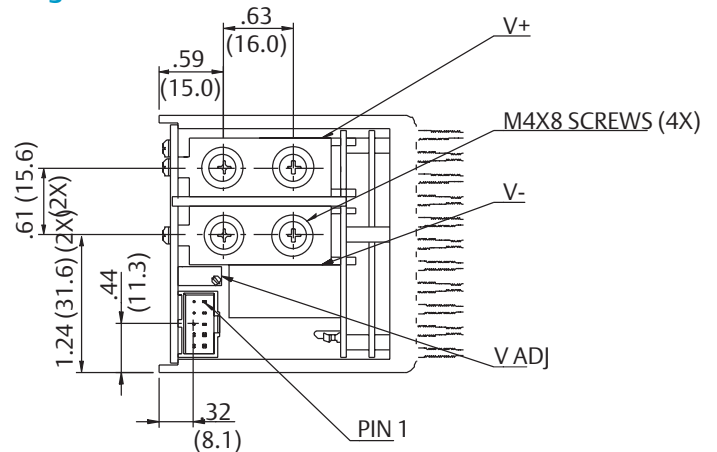
#### Dual 144 Watt



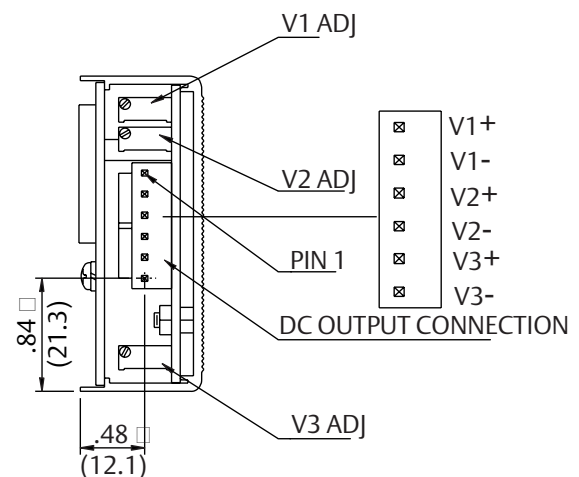
#### Single 210 Watt



#### Single 750 Watt



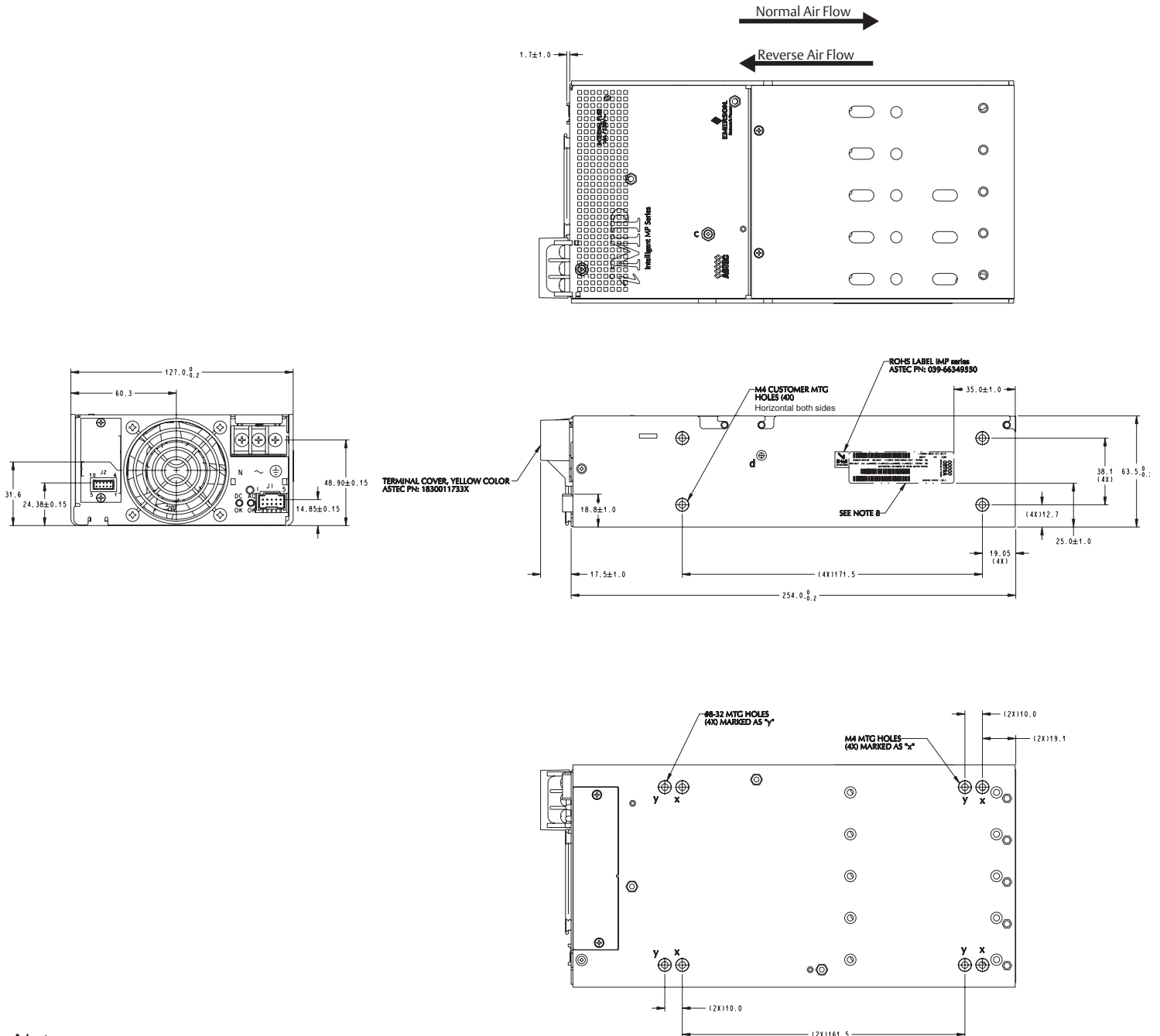
#### Triple 36 Watt



**iMP Series**  
**iMP4 (750/1100 Watts Max)**

**5-Inch Case Size:** iMP4: 2.5" x 5" x 10" (63.5mm x 127mm x 254mm)  
**Weight:** iMP4 Case: 2.6 lbs. • 36 W Triple: 0.5 lb. 210 W Single: 0.6 lb.  
• 360 W Single 1.0 lb. • 600 W Single: 2.0 lbs. 144 W Dual: 0.6 lb.

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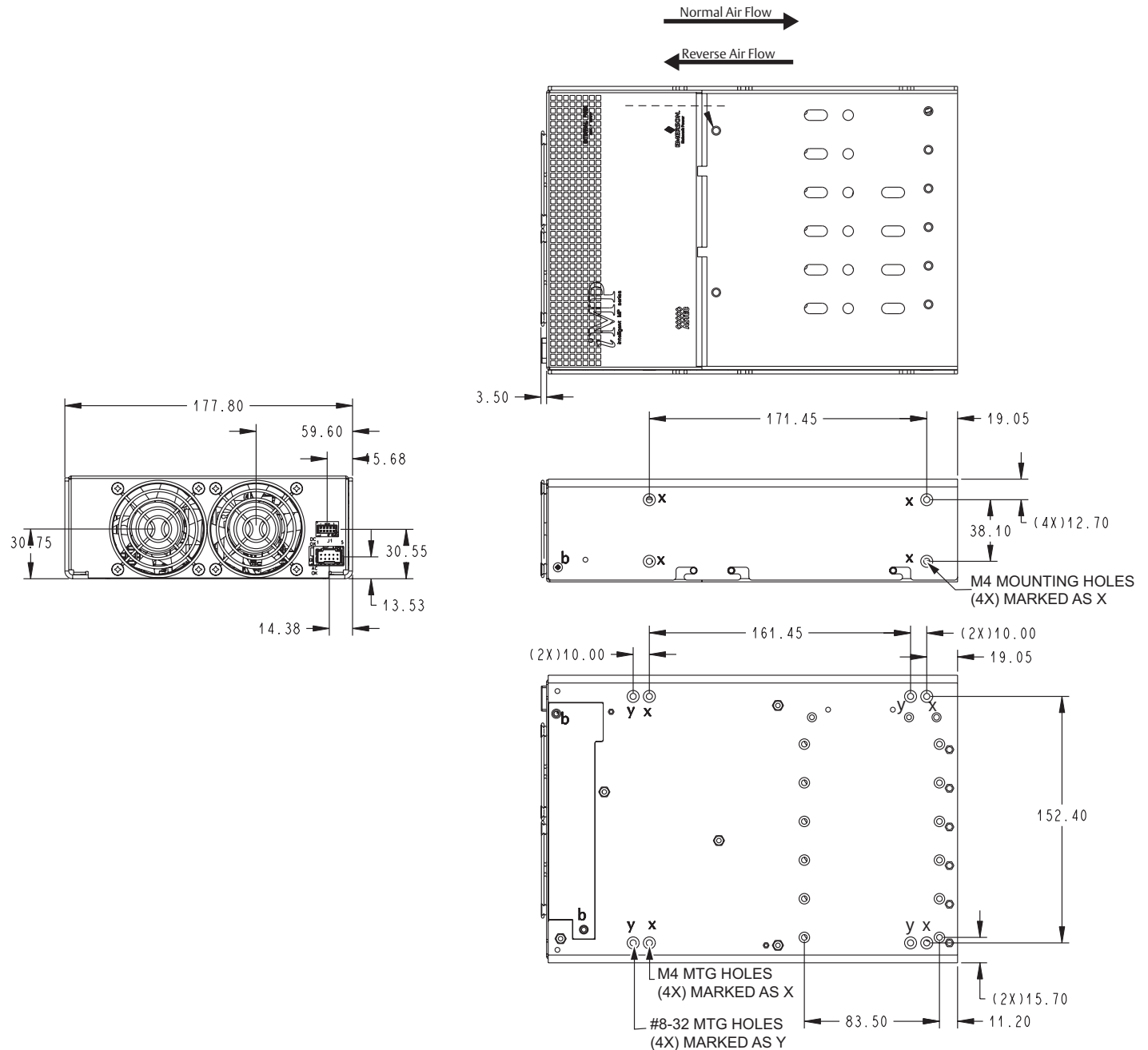
**Notes**

1. Input: Barrier type. Three No. 6-32 B.H. screws (0.375" centers). Max torque: 6 in-lbs. (0.67 N-m).
2. Control connectors: (J1) 10 position housing, gold plated contacts. Mates with Molex 90142-0010 housing with 90119-2110 crimp contacts (Molex C - Grid III Series) or AMP Model number 87977-3 with 87309-8 pins. Connector kit includes mating connector and 10 pins, Astec part #70-841-004. J2 10 position housing (Landwin 2051P1000T). Mates with housing 205051000 (Landwin) with 2053T011P (Landwin) pins.
3. Chassis material: aluminum with chemical film coating (conductive).
4. All dimensions are in millimeters and inches, and are typical.
5. Customer mounting -3 sides M4, bottom also includes 8-32 mounting holes. Max. penetration is 0.150" (3.8mm). Max. torque: 5in-lbs.
6. Output module connections: All single O/P modules are M4 x 8mm screws. Max. torque: 10in-lbs.  
Dual O/P module is M3 x 8mm screws. Max. torque: 5 in-lbs.  
Triple O/P module is .045" square pins on .156" centers. Mates with Molex 09-50-8063 or equivalent.

**iMP Series**  
**iMP8 (1000/1200 Watts Max)**

**7-Inch Case Size:** iMP8: 2.5" x 7" x 10" (63.5mm x 177.8mm x 254mm)  
**Weight:** iMP8 Case: 4.1 lbs. • 36 W Triple: 0.5 lb. • 210 W Single: 0.6 lb.  
• 360 W Single: 1.0 lb. • 600 W Single: 2.0 lbs. 144 W Dual: 0.6 lb.

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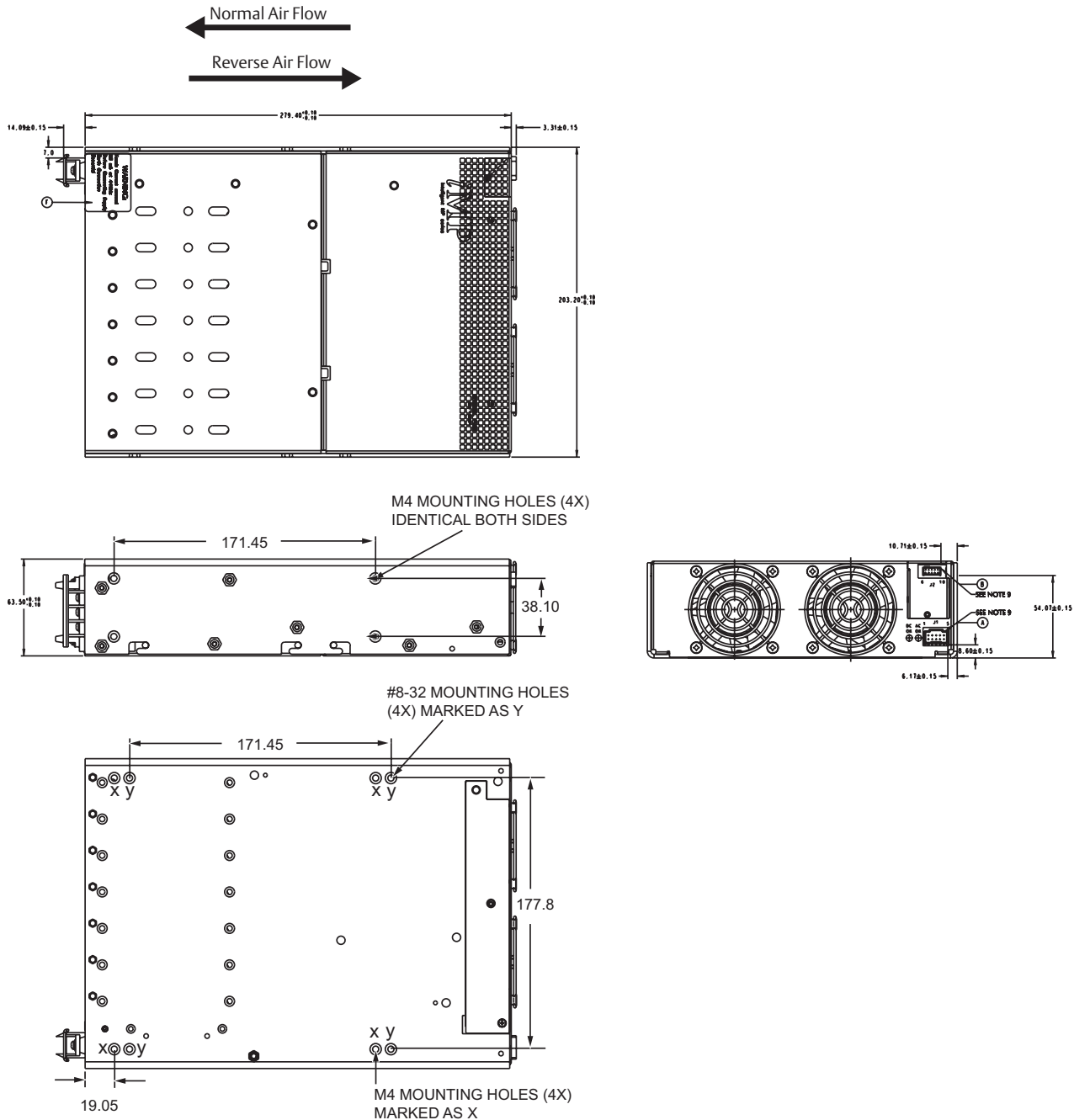
**Notes**

1. Input: Barrier type. Three No. 6-32 B.H. screws (0.375" centers). Max torque: 6 in-lbs. (0.67 N-m).
2. Control connectors: (J1) 10 position housing, gold plated contacts. Mates with Molex 90142-0010 housing with 90119-2110 crimp contacts (Molex C - Grid III Series) or AMP Model number 87977-3 with 87309-8 pins. Connector kit includes mating connector and 10 pins, Astec part #70-841-004. J2 10 position housing (Landwin 2051P1000T). Mates with housing 205051000 (Landwin) with 2053T011P (Landwin) pins.
3. Chassis material: aluminum with chemical film coating (conductive).
4. All dimensions are in millimeters and inches, and are typical.
5. Customer mounting -3 sides M4, bottom also includes 8-32 mounting holes. Max. penetration is 0.150" (3.8mm). Max. torque: 5in-lbs.
6. Output module connections: All single O/P modules are M4 x 8mm screws. Max. torque: 10in-lbs.  
Dual O/P module is M3 x 8mm screws. Max. torque: 5 in-lbs.  
Triple O/P module is .045" square pins on .156 centers. Mates with Molex 09-50-8063 or equivalent.

## iMP Series iMP1 (1200/1500 Watts Max)

**8-Inch Case Size:** iMP1: 2.5" x 8" x 11" (63.5mm x 203.2mm x 279.4mm)  
**Weight:** iMP1 Case: 5.0 lbs. • 36 W Triple: 0.5 lbs. • 210 W Single: 0.6 lbs.  
 • 360 W Single: 1.0 lb. • 600 W Single: 2.0 lbs. 144 W Dual: 0.6 lb.

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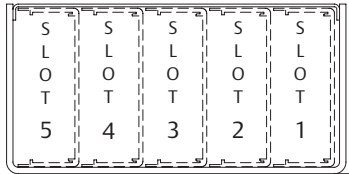


## Notes

1. Input: Barrier type. Three No. 6-32 B.H. screws (0.375" centers). Max torque: 6 in-lbs (0.67 N-m).
2. Control connectors: (J1) 10 position housing, gold plated contacts. Mates with Molex 90142-0010 housing with 90119-2110 crimp contacts (Molex C-Grid III Series) or AMP Model number 87977-3 with 87309-8 pins. Connector kit includes mating connector and 10 pins, Astec part #70-841-004. J2 10 position housing (Landwin 2051P1000T). Mates with housing 205051000 (Landwin) with 2053T011P (Landwin) pins.
3. Chassis material: aluminum with chemical film coating (conductive).
4. All dimensions are in millimeters and inches, and are typical.
5. Customer mounting -3 sides M4, bottom also includes 8-32 mounting holes. Max. penetration is 0.150" (3.8mm). Max. torque: 5in-lbs.
6. Output module connections: All single O/P modules are M4 x 8mm screws. Max. torque: 10in-lbs.  
 Dual O/P module is M3 x 8mm screws. Max. torque: 5 in-lbs.  
 Triple O/P module is .045" square pins on .156 centers. Mates with Molex 09-50-8063 or equivalent.

## iMP Case Specifications

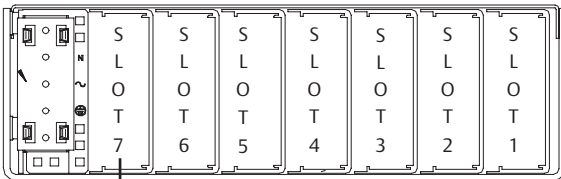
### iMP4



iMP4 = 2.5" x 5" x 10" 5 available slots  
(63.5 x 127 x 254)

Input  
**90-264VAC\*** 750W max.  
**180-264VAC** 1100W max.  
\*Using 750W module.  
All other modules 700W max.

### iMP8 and iMP1



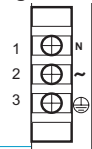
iMP8 = 2.5" x 7" x 10" 6 available slots  
(63.5 x 177.8 x 254)

iMP1 = 2.5" x 8" x 11" 7 available slots  
(63.5 x 203.2 x 279.4)

Input  
**85-264VAC** 1000W max.  
**180-264VAC** 1200W max.  
1200W max. 1500W max.

## Pin Connectors

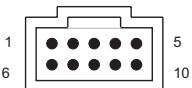
Figure 1. AC Input



### AC Input

| Pin No. | Function               |
|---------|------------------------|
| 1       | AC Neutral             |
| 2       | AC Line (Hot)          |
| 3       | Chassis (Earth) Ground |

Figure 2. Connector J1

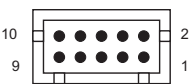


Mates with  
Molex 90142-0010  
Amp 87977-3

### PFC Input Connector (control and signals)

| Pin No. | Function                                   |
|---------|--------------------------------------------|
| 1       | Input AC OK - "Emitter"                    |
| 2       | Input AC OK - "Collector"                  |
| 3       | Global DC OK - "Emitter"                   |
| 4       | Global DC OK - "Collector"                 |
| 5       | External Sync                              |
| 6       | Global Inhibit / Optional Enable Logic "0" |
| 7       | Global Inhibit / Optional Enable Logic "1" |
| 8       | Global Inhibit / Optional Enable Return    |
| 9       | +5VSB Housekeeping                         |
| 10      | +5VSB Housekeeping Return                  |

Figure 3. Connector J2



Mates with  
Landwin 205051000 Housing  
2053T011P Pin

### I<sup>2</sup>C Bus Output Connector

| Pin No. | Function                      |
|---------|-------------------------------|
| 1       | No Connection                 |
| 2       | No Connection                 |
| 3       | No Connection                 |
| 4       | Serial Clock Signal (SCL)     |
| 5       | Serial Data Signal (SDA)      |
| 6       | Address Bit 0 (AO)            |
| 7       | Address Bit 1 (A1)            |
| 8       | Address Bit 2 (A2)            |
| 9       | Secondary Return (GND)        |
| 10      | SVCC External Bus (5VCC. Bus) |

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