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24 Austin Lynx™: Non-Isolated DC-DC Power Modules

20Vdc - 30Vdc input; 5.0 Vdc to 15 Vdc output; 70W Output Power

RoHS Compliant



Applications

- Distributed power architectures
- Intermediate bus voltage applications
- Telecommunications equipment
- Wireless Base stations
- Industrial equipment
- LANs/WANs
- **Enterprise Networks**
- Latest generation IC's (DSP, FPGA, ASIC) and Microprocessor powered applications

Features

- Compliant to RoHS EU Directive 2011/65/EU (-Z
- Compliant to RoHS EU Directive 2011/65/EU under exemption 7b (Lead solder exemption). Exemption 7b will expire after June 1, 2016 at which time this product will no longer be RoHS compliant (non-Z versions)
- Wide input voltage range: 20 to 30Vdc
- Output voltage programmable via external resistor: 5Vdc to 15Vdc
- High efficiency modules (VIN = 24Vdc) 97% at 12Vdc full load
- Low output ripple and noise
- Monotonic start-up into pre-bias output
- Remote On/Off (Positive logic)
- Remote Sense
- Small size and low profile: 50.8 mm x 12.7 mm x 8.1 mm $(2.00 \text{ in } \times 0.50 \text{ in } \times 0.32 \text{ in})$
- Constant switching frequency
- Wide operating temperature range (-40°C to 85°C)
- Over current and Over temperature protection (nonlatching)
- *UL** 60950-1Recognized, *CSA*[†] C22.2 No. 60950-1-03 Certified, and VDE[‡] 0805:2001-12 (EN60950-1) Licensed
- ISO** 9001 and ISO 14001 certified manufacturing facilities

Description

The Austin Lynx™ 24V series SIP power module is a non-isolated DC-DC converter in an industry standard package that can deliver up to 70W of output power with a full load efficiency of 97% at 12Vdc output voltage (V_{IN} = 24Vdc). The module operates over a wide input voltage range (VIN = 20 - 30Vdc) and provides a precisely regulated output voltage from 5 to 15Vdc, programmable via an external resistor. Standard features include remote On/Off, adjustable output voltage, remote sense, over current and over temperature protection.

- * UL is a registered trademark of Underwriters Laboratories, Inc.
- CSA is a registered trademark of Canadian Standards Association.
- † VDE is a trademark of Verband Deutscher Elektrotechniker e.V.
 ** ISO is a registered trademark of the International Organization of Standards

24V Austin LynxTM: Non-Isolated DC-DC Power Modules

20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only, functional operation of the device is not implied at these or any other conditions in excess of those given in the operations sections of the data sheet. Exposure to absolute maximum ratings for extended periods can adversely affect the device reliability.

| Parameter | Device | Symbol | Min | Max | Unit |
|--------------------------------------|--------|------------------|------|-----|------|
| Input Voltage | All | V _{IN} | -0.3 | 36 | Vdc |
| Continuous | | | | | |
| Operating Ambient Temperature | All | TA | -40 | 85 | °C |
| (see Thermal Considerations section) | | | | | |
| Storage Temperature | All | T_{stg} | -55 | 125 | °C |

Electrical Specifications

Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions.

| Parameter | Device | Symbol | Min | Тур | Max | Unit |
|--|-------------|--------------------------|------|------|------|------------------|
| Operating Input Voltage | All | V _{IN} | 20.0 | 24.0 | 30.0 | Vdc |
| Maximum Input Current | All | I _{IN,max} | | | 4.5 | Adc |
| $(V_{IN}=20V, V_0=12V, I_0=6A)$ | | | | | | |
| Input No Load Current | Vo = 5.0Vdc | I _{IN,No} Load | | 60 | | mAdc |
| $(V_{IN} = 24Vdc, Io = 0, module enabled)$ | Vo = 12Vdc | I _{IN,No Load} | | 120 | | mAdc |
| Input Stand-by Current | Vo = 5.0Vdc | I _{IN,stand-by} | | | 3 | mA |
| $(V_{IN} = 24Vdc, module disabled)$ | Vo = 12Vdc | I _{IN,stand-by} | | | 3 | mA |
| Inrush Transient | All | l ² t | | | 1 | A ² s |
| Input Reflected Ripple Current, peak-to-peak (5Hz to 20MHz, 1µH source impedance; V _{IN} =20V to 30V, I _O = I _{Omax} ; See Figure 25) | All | | | 50 | | mAp-p |
| Input Ripple Rejection (120Hz) | All | | 50 | | | dB |

CAUTION: These power modules can be used in a wide variety of applications ranging from simple standalone operation to an integrated part of sophisticated power architectures. To preserve maximum flexibility, no internal fuse has been provided. Also, extensive safety testing has shown that no external fuse is required to protect the unit. However, it is still recommended that some type of current-limiting power source be used to protect the module and evaluated in the end-use equipment.

GE

24V Austin LynxTM: Non-Isolated DC-DC Power Modules 20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Electrical Specifications (continued)

| Parameter | Device | Symbol | Min | Тур | Max | Unit |
|---|------------------------------|---------------------|------|---------------------|-------|-----------------------|
| Output Voltage Set-point | All | V _{O, set} | -2.0 | V _{O, set} | +2.0 | % V _{O, set} |
| (V _{IN} =V _{N, min} , I _O =I _{O, max} , T _A =25°C) | | | | | | |
| Output Voltage | All | V _{O, set} | -3% | _ | +3% | % V _{O, set} |
| (Over all operating input voltage, resistive load, and temperature conditions until end of life) | | | | | | |
| Adjustment Range | | | | | | |
| Selected by an external resistor | All | Vo | 5.0 | | 15.0 | Vdc |
| Output Regulation | | | | | | |
| Line (V _{IN} =V _{IN, min} to V _{IN, max}) | All | | _ | _ | 0.4 | % V _{O, set} |
| Load ($I_0=I_{0, min}$ to $I_{0, max}$) | All | | _ | _ | 0.4 | % V _{O, set} |
| Temperature ($T_{ref}=T_{A, min}$ to $T_{A, max}$) | All | | _ | 0.5 | 1 | % V _{O, set} |
| Output Ripple and Noise on nominal output | | | | | | |
| (V_{IN} = $V_{IN, nom}$ and I_0 = $I_{0, min}$ to $I_{0, max}$ | | | | | | |
| Cout =0.01µF ceramic//10µFtantalum capacitors) | | | | | | |
| Peak-to-Peak (5Hz to 20MHz bandwidth) | All | | _ | 100 | 200 | mV_{pk-pk} |
| External Capacitance | | | | | | |
| ESR ≥ 1 mΩ | All | C _{0, max} | 0 | _ | 1,000 | μF |
| ESR ≥ 10 mΩ | | C _{O, max} | 0 | _ | 2,000 | μF |
| Output Current (V _{IN} = V _{IN, nom}) | | | | | | |
| $V_0 = 5.0Vdc$ | All | I _{o,max} | 0 | | 10 | Adc |
| $V_0 = 12.0Vdc$ | | | 0 | | 6 | |
| $V_0 = 15.0Vdc$ | | | 0 | | 4.5 | |
| Output Power ($V_{IN} = V_{IN, nom}$) | | | | | | |
| $V_o = V_{o,min}$ to $V_{o,max}$ | All | Po | | | 70 | W |
| Output Short-Circuit Current | | | | | | |
| (V ₀ ≤250mV) (Hiccup Mode) | All | I _{O, s/c} | _ | 20 | _ | Adc |
| Efficiency | | | | | | |
| V _{IN} = V _{IN, nom} , T _A =25°C | V _{O,set} = 5.0Vdc | η | | 93 | | % |
| $I_0=I_{0, max}$, $V_0=V_{0, set}$ | V _{0,set} = 12.0Vdc | η | | 97 | | % |
| | $V_{O,set} = 15.0Vdc$ | η | | 97 | | % |
| Switching Frequency (Fixed) | All | f _{sw} | _ | 300 | _ | kHz |

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24V Austin LynxTM: Non-Isolated DC-DC Power Modules 20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Electrical Specifications (continued)

| Parameter | Device | Symbol | Min | Тур | Max | Unit |
|---|--------|----------|-----|-----|-----|------|
| Dynamic Load Response | | | | | | |
| $(dI_0/dt=5A/\mu s; V_{IN}=V_{IN, nom} T_A=25^{\circ}C)$ | | | | | | |
| Load Change from Io= 50% to 100% of Io,max; No external output capacitors | | | | | | |
| Peak Deviation (Vo = 12Vdc) | All | V_{pk} | | 220 | | mV |
| Settling Time (Vo<10% peak deviation) | All | ts | | 50 | | μS |
| (dI _O /dt=5A/μs; V _{IN} =V _{IN, nom} ; T _A =25°C) | | | | | | |
| Load Change from I ₀ = 100% to 50% of I ₀ , max: No external output capacitors | | | | | | |
| Peak Deviation (Vo = 12Vdc) | All | V_{pk} | | 220 | | mV |
| Settling Time (V ₀ <10% peak deviation) | All | ts | | 50 | | μs |
| (dI ₀ /dt=5A/μs; V _{IN} =V _{IN} , _{nom} ; T _A =25°C) | | | | | | |
| Load Change from Io= 50% to 100% of Io,max; 2x150 µF polymer capacitor | | | | | | |
| Peak Deviation (Vo = 12Vdc) | All | V_{pk} | _ | 130 | | mV |
| Settling Time (Vo<10% peak deviation) | All | ts | _ | 50 | | μs |
| (dI ₀ /dt=5A/μs; V _{IN} =V _{IN, nom} ; T _A =25°C) | | | | | | |
| Load Change from Io= 100% to 50% of I _{O,max} : 2x150 µF polymer capacitor | | | | | | |
| Peak Deviation (Vo = 12Vdc) | All | V_{pk} | | 130 | | mV |
| Settling Time (V ₀ <10% peak deviation) | All | ts | _ | 50 | _ | μς |

General Specifications

| Parameter | Device | Min | Тур | Max | Unit |
|---|--------|-----------|------------|-------|---------|
| Calculated MTBF (V _{IN} = V _{IN, nom} , I ₀ = $0.8I_{O, max}$, T _A = 40° C) Telecordia SR 332 Issue 1: Method 1, case 3 | All | 8,035,510 | | Hours | |
| Weight | | _ | 6.4 (0.23) | _ | g (oz.) |

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24V Austin LynxTM: Non-Isolated DC-DC Power Modules 20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Feature Specifications

Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions. See Feature Descriptions for additional information.

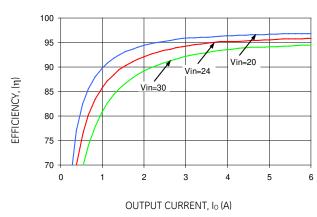
| Parameter | Device | Symbol | Min | Тур | Max | Unit |
|--|--------|-----------|----------------------|-----|-----|-----------------------|
| On/Off Signal interface | | | | | | |
| (On/Off is open collector/drain logic input; | | | | | | |
| Signal referenced to GND - See feature description section) | | | | | | |
| Device is with suffix "4" – Positive Logic | | | | | | |
| Logic High (On/Off pin open – Module ON) | | | | | | |
| Input High Current | All | Іін | | _ | 10 | μΑ |
| Input High Voltage | All | VIH | V _{IN} -2.5 | _ | 30 | V |
| Logic Low (Module OFF) | | | | | | |
| Input Low Current | All | lıL | _ | _ | 1 | mA |
| Input Low Voltage | All | VIL | -0.3 | _ | 1.2 | V |
| Turn-On Delay and Rise Times | | | | | | |
| ($V_{IN}=V_{IN, nom, I_0}=I_{O, max, V_0}$ to within ±1% of steady state) | | | | | | |
| Case 1: On/Off input is enabled and then input power is applied (delay from instant at which $V_{IN} = V_{IN, min}$ until $V_0 = 10\%$ of V_0 , set) | All | Tdelay | 2 | 4 | 8 | Msec |
| Case 2: Input power is applied for at least one second and then the On/Off input is enabled (delay from instant at which Von/Off is enabled until $V_0 = 10\%$ of V_0 , set) | All | Tdelay | 2 | 4 | 8 | Msec |
| Output voltage Rise time (time for V_0 to rise from 10% of V_0 , set to 90% of V_0 , set) | All | Trise | 2 | 5 | 9 | Msec |
| Output voltage overshoot | | | | | 3.0 | % V _{O, set} |
| $I_0 = I_{0, max}$; $V_{IN, min} - V_{IN, max}$, $T_A = 25$ °C | | | | | | |
| Remote Sense Range | | | _ | _ | 0.5 | V |
| Over temperature Protection | All | T_{ref} | _ | 125 | 135 | °C |
| (See Thermal Consideration section) | | | | | | |
| Input Undervoltage Lockout | | | | | | |
| Turn-on Threshold | All | | | | 19 | Vdc |
| Turn-off Threshold | All | | 17 | | | Vdc |

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Characteristic Curves

The following figures provide typical characteristics for the AXB070X module at 12V, 6A and 25°C.

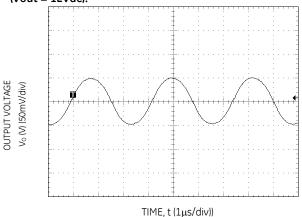


2 m/s (400LFM 6 € 0.5 m/s (100LFM) OUTPUT CURRENT, Io 1 m/s (200LFM 0 20 30 50 70 80 90 40 AMBIENT TEMPERATURE, Ta (°C)

Figure 1. Converter Efficiency versus Output Current

(Vout = 12Vdc).

Figure 4. Derating Output Current versus Local Ambient Temperature and Airflow (Vin = 24V).



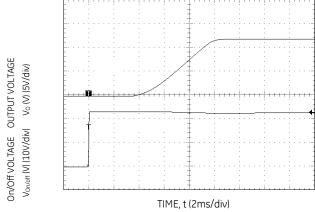
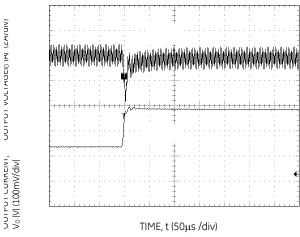


Figure 2. Typical output ripple and noise $(V_{IN} = 24V, V_o = 12Vdc, I_o = 6A).$

Figure 5. Typical Start-up Using Remote On/Off $(V_{IN} = 24V, V_o = 12Vdc, I_o = 6A).$



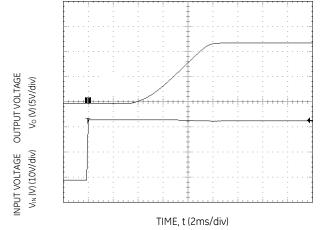


Figure 3. Transient Response to Dynamic Load Change from 50% to 100% with di/dt of 1A/ μ s.

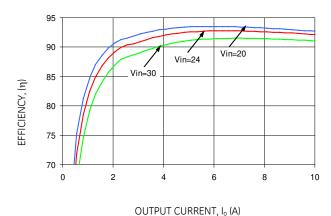
Figure 6. Typical Start-up Using Input Voltage $(V_{IN} = 24V, I_0 = 6A).$

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Characteristic Curves (continued)

The following figures provide typical characteristics for the AXB070X module at 5V, 10A and 25°C.



V OI NC 0.5 m/s 1 m/s (200LFM) 2 m/s (400LFM) 2 m/s (400LFM) 2 m/s (400LFM)

AMBIENT TEMPERATURE, T_A °C

10

Figure 7. Converter Efficiency versus Output Current.

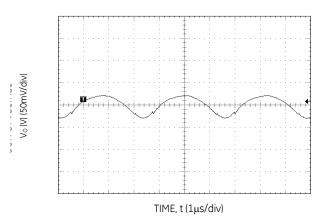


Figure 10. Derating Output Current versus Local Ambient Temperature and Airflow ($V_{\text{IN}} = 24V$).

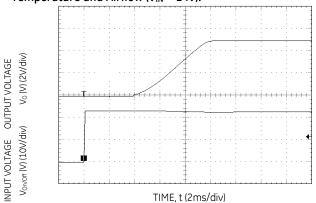
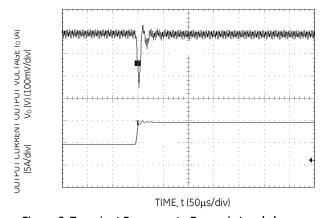


Figure 8. Typical output ripple and noise ($V_{IN}=24V$, $V_{Io}=10A$).

Figure 11. Typical Start-up Using Remote On/Off (V $_{\mbox{\scriptsize IN}}=24\mbox{\scriptsize V},$ $\mbox{\scriptsize I}_{\mbox{\scriptsize 0}}=10\mbox{\scriptsize A}).$



INPUT VOLTAGE

Vin (V) (100V/div)

Vo (V) (2V/div)

TIME't (5ms/qiv)

Figure 9. Transient Response to Dynamic Load change from 50% to 100% with di/dt of 1A/ $\mu s.$

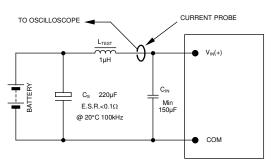
Figure 12. Typical Start-up Using Input Voltage ($V_{IN} = 24V$, $I_0 = 10A$).

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24V Austin LynxTM: Non-Isolated DC-DC Power Modules

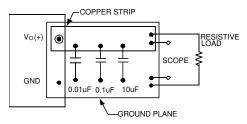
20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Test Configurations



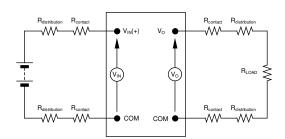
NOTE: Measure input reflected ripple current with a simulated source inductance (L_{TEST}) of 1µH. Capacitor C_S offsets possible battery impedance. Measure current as shown

Figure 25. Input Reflected Ripple Current Test Setup.



NOTE: All voltage measurements to be taken at the module terminals, as shown above. If sockets are used then Kelvin connections are required at the module terminals to avoid measurement errors due to socket contact resistance.

Figure 26. Output Ripple and Noise Test Setup.



NOTE: All voltage measurements to be taken at the module terminals, as shown above. If sockets are used then Kelvin connections are required at the module terminals to avoid measurement errors due to socket contact resistance.

Figure 27. Output Voltage and Efficiency Test Setup.

$$\mbox{Efficiency} \quad \eta \ = \ \frac{\ V_{\text{O}}. \ I_{\text{O}}}{\ V_{\text{IN}}. \ I_{\text{IN}}} \quad \ x \quad 100 \quad \% \label{eq:policy}$$

Safety Considerations

For safety agency approval the power module must be installed in compliance with the spacing and separation requirements of the end-use safety agency standards, i.e., UL 60950, CSA C22.2 No. 60950-00, EN60950 (VDE 0850) (IEC60950, 3rd edition) Licensed.

For the converter output to be considered meeting the requirements of safety extra-low voltage (SELV), the input must meet SELV requirements. The power module has extra-low voltage (ELV) outputs when all inputs are ELV.

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Feature Description

Remote On/Off

The Austin Lynx[™] 24V SMT power modules feature an On/Off pin for remote On/Off operation. Positive Logic On/Off signal, device code suffix "4", turns the module ON during a logic High on the On/Off pin and turns the module OFF during a logic Low.

For positive logic modules, the circuit configuration for using the On/Off pin is shown in Figure 28. The On/Off pin is an open collector/drain logic input signal (Von/Off) that is referenced to ground. During a logic-high (On/Off pin is pulled high internal to the module) when the transistor Q1 is in the Off state, the power module is ON. Maximum allowable leakage current of the transistor when Von/off = $V_{\text{IN,max}}$ is $10\mu\text{A}$. Applying a logic-low when the transistor Q1 is turned-On, the power module is OFF. During this state VOn/Off must be less than 1.2V. When not using positive logic On/off pin, leave the pin unconnected or tie to V_{IN}

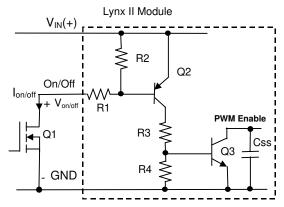


Figure 28. Remote On/Off Implementation circuit.

Remote Sense

The Austin Lynx 24V power modules have a Remote Sense feature to minimize the effects of distribution losses by regulating the voltage at the Remote Sense pin (See Figure 29). The voltage between the Sense pin and Vo pin must not exceed 0.5V.

The amount of power delivered by the module is defined as the output voltage multiplied by the output current (Vo \times Io). When using Remote Sense, the output voltage of the module can increase which increases the power output of the module. Make sure that the maximum output power of the module remains at or below the maximum rated power. When the Remote Sense feature is not being used, connect the Remote Sense pin to the output of the module.

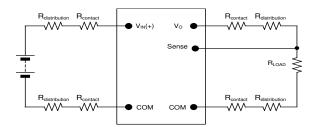


Figure 29. Effective Circuit Configuration for Remote Sense operation.

Overcurrent Protection

To provide protection in a fault (output overload) condition, the unit is equipped with internal current-limiting circuitry and can endure current limiting continuously. At the point of current-limit inception, the unit enters hiccup mode. The unit operates normally once the output current is brought back into its specified range. The average output current during hiccup is 20% lo. max.

Input Undervoltage Lockout

At input voltages below the input undervoltage lockout limit, the module operation is disabled. The module will begin to operate at an input voltage above the undervoltage lockout turn-on threshold.

Overtemperature Protection

To provide protection in a fault condition, the unit is equipped with a thermal shutdown circuit. The unit will shutdown if the overtemperature threshold of 130°C is exceeded at the thermal reference point $T_{\rm ref}$. The thermal shutdown is not intended as a guarantee that the unit will survive temperatures beyond its rating. Once the unit goes into thermal shutdown it will then wait to cool before attempting to restart.

Output Voltage Programming

The output voltage of the Austin Lynx 24V can be programmed to any voltage in the specified ranges by connecting a resistor (shown as *Rtrim* in Figure 30) between the Trim and GND pins of the module. Without an external resistor between the Trim and GND pins, the output of the module will be at the low-end of the specified range. To calculate the value of the trim resistor, *Rtrim* for a desired output voltage, use the following equations:

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20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Feature Descriptions (continued)

Output Voltage Programming

$$Rtrim = \left[\frac{10500}{Vo - 5.021} - 1000\right]\Omega$$

where, Rtrim is the external resistor in Ω and Vo is the desired output voltage

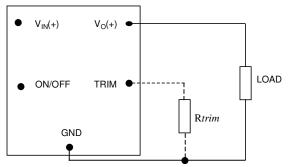


Figure 30. Circuit configuration to program output voltage using an external resistor.

By using a $\pm 0.5\%$ tolerance trim resistor with a TC of ± 100 ppm, a set point tolerance of $\pm 2\%$ can be achieved as specified in the electrical specifications. The POL Programming Tool, available at www.gecriticalpower.com under the Design Tools section, helps determine the required external trim resistor needed for a specific output voltage.

Voltage Margining

Output voltage margining can be implemented in the Austin Lynx 24V modules by connecting a resistor, $R_{\text{margin-up}}$, from the Trim pin to the ground pin for margining-up the output voltage and by connecting a resistor, $R_{\text{margin-down}}$, from the Trim pin to output pin for margining-down. Figure 31 shows the circuit configuration for output voltage margining. The POL Programming Tool, available at www.GEcriticalpower.com under the Design Tools section, also calculates the values of $R_{\text{margin-up}}$ and $R_{\text{margin-down}}$ for a specific output voltage and % margin. Please consult your local GE technical representative for additional details.

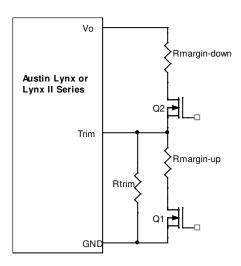


Figure 31. Circuit Configuration for margining the output voltage.

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Thermal Considerations

Power modules operate in a variety of thermal environments; however, sufficient cooling should always be provided to help ensure reliable operation.

Considerations include ambient temperature, airflow, module power dissipation, and the need for increased reliability. A reduction in the operating temperature of the module will result in an increase in reliability. The thermal data presented here is based on physical measurements taken in a wind tunnel. The test set-up is shown in Figure 32. Note that the airflow is parallel to the long axis of the module as shown in figure 32. The derating data applies to airflow in either direction of the module's long axis.

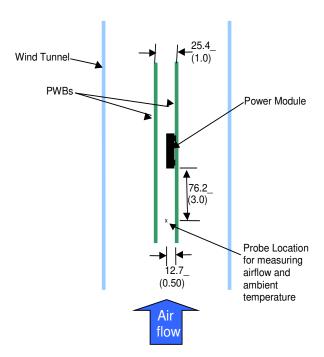
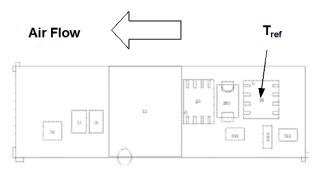


Figure 32. Thermal Test Set-up.

The thermal reference point, T_{ref} used in the specifications is



Top View

Figure 33. Tref Temperature measurement location.

shown in Figure 33. For reliable operation this temperature should not exceed 125 $^{\circ}\text{C}.$

The output power of the module should not exceed the rated power of the module (Vo,set x Io,max).

Please refer to the Application Note "Thermal Characterization Process For Open-Frame Board-Mounted Power Modules" for a detailed discussion of thermal aspects including maximum device temperatures.

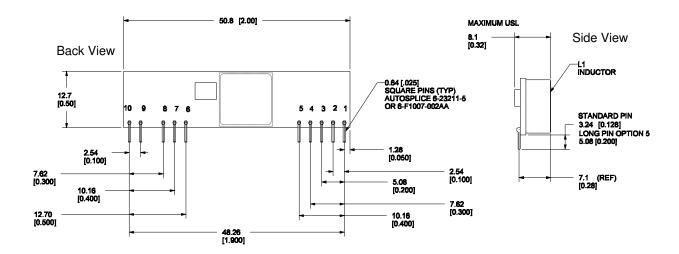
24V Austin Lynx™: Non-Isolated DC-DC Power Modules

20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Mechanical Outline

Dimensions are in millimeters and (inches).

Tolerances: x.x mm \pm 0.5 mm (x.xx in. \pm 0.02 in.) [unless otherwise indicated] x.xx mm \pm 0.25 mm (x.xxx in \pm 0.010 in.)



| Pin | Function |
|-----|----------|
| 1 | Vo |
| 2 | Vo |
| 3 | Vo,sense |
| 4 | Vo |
| 5 | GND |
| 6 | GND |
| 7 | VIN |
| 8 | VIN |
| 9 | TRIM |
| 10 | ON/OFF |

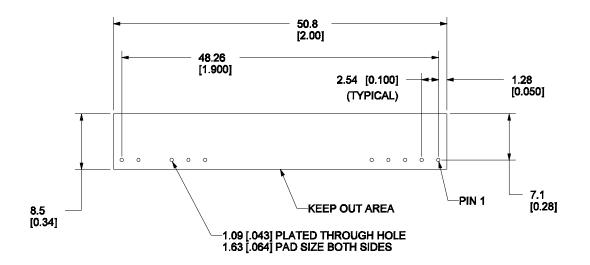
24V Austin Lynx™: Non-Isolated DC-DC Power Modules

20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Recommended Pad Layout

Dimensions are in millimeters and (inches).

Tolerances: x.x mm \pm 0.5 mm (x.xx in. \pm 0.02 in.) [unless otherwise indicated] x.xx mm \pm 0.25 mm (x.xxx in \pm 0.010 in.)



RECOMMENDED HOLE PATTERN COMPONENT-SIDE FOOTPRINT

| Pin | Function | | | |
|-----|----------|--|--|--|
| 1 | Vo | | | |
| 2 | Vo | | | |
| 3 | Vo,sense | | | |
| 4 | Vo | | | |
| 5 | GND | | | |
| 6 | GND | | | |
| 7 | VIN | | | |
| 8 | VIN | | | |
| 9 | TRIM | | | |
| 10 | ON/OFF | | | |

24V Austin Lynx™: Non-Isolated DC-DC Power Modules

20Vdc -30Vdc input; 5Vdc to 15Vdc output; 70W Output Power

Ordering Information

Please contact your GE Sales Representative for pricing, availability and optional features.

Table 3. Device Code

| Device Code | Input Voltage Range | Output Voltage | Output Power | On/Off Logic | Connector Type | Comcodes |
|-------------|------------------------|-------------------|--------------|-----------------|-------------------|-------------|
| AXB070X43 | 20 – 30Vdc | 5.0 – 15.0Vdc | 70W | Positive | TH | CC109105616 |

⁻Z refers to RoHS-compliant codes

Contact Us

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