

TECHNICAL DATASHEET #TDAX080151
DC/DC 24 V - 120 V 230 W
Axiomatic P/N: AX080151

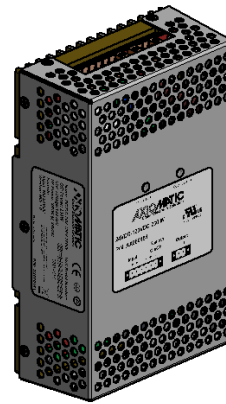
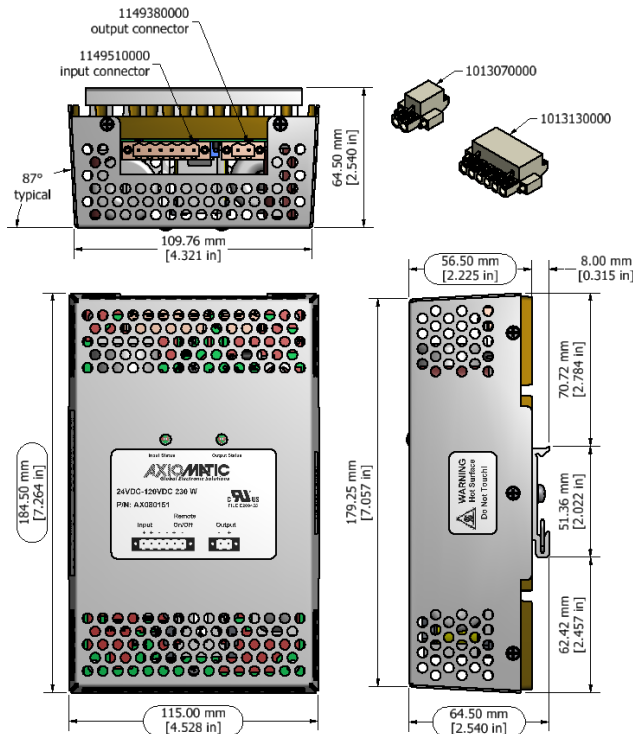
Features:

- CE mark
- UL recognized
- Powers devices at 120Vdc up to 2 Amps (230 W)
- On/Off control with low power standby
- Parallel, redundant capability
- Isolation
- 24Vdc nominal voltage input
- Reverse polarity protection
- Inrush current limited
- Operational from -40 to 70°C
- IP20 protection
- DIN rail mount

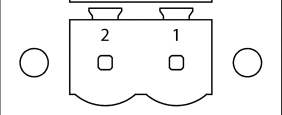
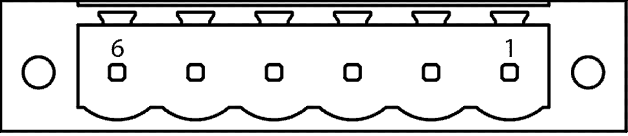


Ordering Part Numbers:

Axiomatic P/N: AX080151



Technical Specifications:

| Input Specifications | | Output Specifications | | | | | | | | | | | | | | | | |
|---|---|---|---|----------|--------|--------|--------------|-------|----|---------------|------|-----|---------------|-------|----|---------------|------|-----|
| Power Source | 24 Vdc nominal | Nameplate Rating (Output Power) | 230 Watts nominal | | | | | | | | | | | | | | | |
| Operating Voltage Range | 19-32 Vdc continuous | Output Current | 2 Amps continuous Current limited to 2.5A | | | | | | | | | | | | | | | |
| Reverse Voltage and Inrush Current Protection | Provided | Output Voltage | 120Vdc \pm 7% | | | | | | | | | | | | | | | |
| Over-voltage Shutdown | 33 Vdc typical | Line Regulation | \pm 1% max. | | | | | | | | | | | | | | | |
| Under-voltage Shutdown | 16 Vdc typical | Output Voltage Ripple | 1% maximum | | | | | | | | | | | | | | | |
| Remote On/Off | 15-32Vdc turns unit ON. 0-5Vdc turns unit OFF. | Turn-on Time (with full load) | 1.3 sec @ 19-32Vdc | | | | | | | | | | | | | | | |
| | | Stability | Stable at all loads (no minimum load requirement) | | | | | | | | | | | | | | | |
| | | Over-voltage Shutdown and Latched | 140 Vdc max. | | | | | | | | | | | | | | | |
| | | Short Circuit Current | Protection provided Hiccup Self-recovery | | | | | | | | | | | | | | | |
| General Specifications | | | | | | | | | | | | | | | | | | |
| Isolation | 500Vdc On/off signal, input, output and chassis are isolated. | <p>Electrical Connections: Mating plugs are included. 2-pin male header Weidmüller P/N: 1149380000 accepts 14-18 AWG wires for Output connection. 2-pole female plug Weidmüller P/N: 1013070000</p> <p style="text-align: center;">Output</p> <p style="text-align: center;">+ -</p>  <p>6-pin male header Weidmüller P/N: 1149510000 accepts 14-16 AWG wires for input connection Use 14-26 AWG wires for Remote On/Off connection. 6-pole female plug Weidmüller P/N: 1013130000</p> <p style="text-align: center;">Remote Input On/Off</p> <p style="text-align: center;">- + - - + +</p>  | | | | | | | | | | | | | | | | |
| Average Efficiency | 92% Typical | | | | | | | | | | | | | | | | | |
| LED Operation | <table border="1"> <thead> <tr> <th>Function</th> <th>Colour</th> <th>Status</th> </tr> </thead> <tbody> <tr> <td>Input Status</td> <td>Green</td> <td>ON</td> </tr> <tr> <td>Output Status</td> <td>None</td> <td>OFF</td> </tr> <tr> <td>Output Status</td> <td>Green</td> <td>ON</td> </tr> <tr> <td>Output Status</td> <td>None</td> <td>Off</td> </tr> </tbody> </table> | | | Function | Colour | Status | Input Status | Green | ON | Output Status | None | OFF | Output Status | Green | ON | Output Status | None | Off |
| Function | Colour | | | Status | | | | | | | | | | | | | | |
| Input Status | Green | | | ON | | | | | | | | | | | | | | |
| Output Status | None | | | OFF | | | | | | | | | | | | | | |
| Output Status | Green | | | ON | | | | | | | | | | | | | | |
| Output Status | None | | | Off | | | | | | | | | | | | | | |
| Operating Temperature | -40 to 70°C (-40 to 158°F) | | | | | | | | | | | | | | | | | |
| Storage Temperature | -40 to 85°C (-40 to 185°F) | | | | | | | | | | | | | | | | | |
| Humidity | 5-95% relative humidity (non-condensing) | | | | | | | | | | | | | | | | | |
| Protection rating | IP20 | | | | | | | | | | | | | | | | | |
| Shock | 40 G, 6 ms, 10 pulses, 3 axes | | | | | | | | | | | | | | | | | |
| Vibration | EN 60068-2-6, Test Fc | | | | | | | | | | | | | | | | | |
| EMI/EMC | CE EN61000-6-2 EN61000-6-4 | | | | | | | | | | | | | | | | | |
| UL | cURus recognized (UL60950/ CAN CSA 22.2 No. 60950) | | | | | | | | | | | | | | | | | |
| Weight | 2.80 lbs. (1.27 kg) | Packaging and Dimensions | DIN rail, T35 Aluminum enclosure 4.53 x 7.26 x 2.54 inches 115.0 x 184.5 x 64.5 mm (W x L x H including DIN rail) | | | | | | | | | | | | | | | |

Specifications are indicative and subject to change. Actual performance will vary depending on the application and operating conditions. Users should satisfy themselves that the product is suitable for use in the intended application. All our products carry a limited warranty against defects in material and workmanship. Please refer to our Warranty, Application Approvals/Limitations and Return Materials Process as described on <https://www.axiomatic.com/service/>.

Form: TDAX080151-06/21/23