



FOREWORD

This manual provides information intended for use by persons who, in accordance with current regulatory requirements, are qualified to install this equipment. If further information is required, please contact:

True Blue Power c/o Mid-Continent Instrument Co., Inc. Attn: Customer Service Dept. 9400 E. 34th St. N. Wichita, KS 67226 USA Phone 316-630-0101 Fax 316-630-0723 www.truebluepowerusa.com www.mcico.com

We welcome your comments concerning this manual. Although every effort has been made to keep it free of errors, some may occur. When reporting a specific problem, please describe it briefly and include the manual part number, the paragraph/figure/table number and the page number. Send your comments to:

True Blue Power c/o Mid-Continent Instrument Co., Inc. Attn: Technical Publications 9400 E. 34th St. N. Wichita, KS 67226 USA Phone 316-630-0101 Fax 316-630-0723



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REVISION HISTORY

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| Rev | Date | Detail | Approved |
|-----|------------|--|----------|
| Α | 10/18/2019 | Initial Release | BAW |
| В | 05/14/2020 | 05/14/2020 Updated style and brand to meet Marketing and Engineering guidelines. Update Section 3.2, Optional Equipment names. Update Wire Gauge values in section 3.3.1. | |
| С | 06/30/2020 | Updated DO-160 qualifications in Section 5 based on additional testing. Updated wire length in Section 3.3.1. | DLR |
| D | 08/25/2022 | Updated document to include new 100W model. Aligned product name to match website. | ESH |
| Е | 04/06/2023 | Updated dual Type-A/ Type C weight in Table 1.2. | ESH |
| F | 08/31/2023 | Updated optional equipment in Section 3. | ESH |
| G | 09/29/2023 | Updated notes and descriptions in Section 3. | |
| н | 11/03/2023 | Updated optional equipment in Section 3. | |
| J | 04/16/2023 | Updated document to included new Type C + Data model. | VAA |



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1.1 INTRODUCTION

The TA360 Series MAX Power USB Charging Port is a certified accessory that charges any electronic device that uses either a USB Type-A or USB Type-C charging connector.

The TA360 supports the latest version of the USB charging standard, known as USB Power Delivery (PD) version 2.0 and 3.0. This smart charger provides intelligent negotiation with the connected cable and device to supply variable voltage at up to 5 amps, allowing up to a total of 100 watts of charging power. This provides maximum charging speed to a wide variety of the latest electronic devices, including mobile phones, tablets - even laptops - and more. The TA360 can determine the maximum power the device can support and will charge the device at the maximum speed allowed, while preventing the device from being overcharged or charged incorrectly. The TA360 also incorporates True Blue Power's proprietary Cable-Drop Compensator which cancels the effect of voltage lost through the cable, extending the flexibility of cable/device combinations while maintaining the fastest charging possible.

The TA360 accepts an input of 22-32 volts DC from the aircraft and converts it to an output voltage from 5 to 20 volts DC, at a current up to 5 amps per port. The TA360 incorporates the latest USB Type-C connector to supply PD power, offering a smaller and reversible port connection, in either a single or dual port configuration. Additionally, a version is available that includes a traditional USB Type-A port combined with a USB PD Type-C port to support both legacy and newer cables and devices. Each version is available with or without lighting to conveniently locate the charging ports in low-light conditions. The unit has built-in protections for short circuit, over-current, and low voltage conditions. It is designed to protect against reverse polarity installation and has temperature monitoring and shutdown capability, allowing the unit to handle unforeseen conditions safely.

The TA360 also has a version available that connects the D+ and D- pins on the front USB Type-C port to the rear connector to allow passthrough of USB 2.0 data.

The TA360 is certified to FAA/TSO-C71 and qualified to multiple RTCA DO-160G environmental conditions for ease of installation and incorporation on any class or type of aircraft. The unit is easily mounted with two screws and a two-wire power input and can be installed throughout the aircraft, including the cockpit, cabin, galley, or other locations.

Small, compact, powerful, and with plenty of installation flexibility, the TA360 is an ideal choice in any aircraft to charge the latest electronic devices at maximum speed.





1.2 TECHNICAL SPECIFICATIONS

| Electrical Attributes | | | |
|---|--------------|--|--|
| Input Voltage 22-32 VDC | | | |
| Input Power 135 watts max; 4.8 amps @ 28 VDC | | | |
| Output Voltage Auto-adjustable: 5VDC, 9VDC, 15VDC, 20VDC per po | | | |
| Output Power 5.0 amps max per port | | | |
| Efficiency | ~90% nominal | | |

Table 1.1

| Physical Attributes | | | | |
|--|--|--|--|--|
| Mainht | 1.3 oz (37 g) (single Type-C port) 1.9 oz (54 g) (dual Type-A/Type-C port) | | | |
| Weight | 2.5 oz (71 g) (dual Type-C port) | | | |
| Dimensions (Single Port Units) (not including mating connector) | 1.50 inches wide X 0.52 inches high X 2.0 inches deep (38mm wide X 13mm high X 50mm deep) | | | |
| Dimensions (Dual Port Units) (not including mating connector) | 1.50 inches wide X 1.03 inches high X 2.0 inches deep (38mm wide X 26mm high X 50mm deep) | | | |
| Charging Port Connector | USB Type-A or USB Type-C | | | |
| Input Connector Kit | MCIA P/N 9017960 MCIA P/N 9017960-1 (for Type C+Data) | | | |
| Mounting | Panel mount; rear | | | |

Table 1.2

| Qualifications | | | |
|------------------------------|--|--|--|
| Certification: | FAA/TSO-C71 | | |
| Environmental Qualification: | RTCA/DO-160G (See Section 5 for Categories/Levels) | | |
| USB Power Delivery (PD) | Version 2.0 and Version 3.0 | | |

Table 1.3

| Cor | Configurations | | | | | |
|---------|----------------|------------|---------|----------------|-----------|--|
| | Non-Lighted | Lighted | | USB Connector | Power (W) | |
| | 6430360-1 | 6430360-11 | Dual: | Type A +Type C | 15 + 60 | |
| Numbers | 6430360-3 | 6430360-13 | Dual: | Type C +Type C | 60 + 60 | |
| Num | 6430360-7 | 6430360-17 | Single: | Туре С | 60 | |
| Part | 6430360-21 | 6430360-31 | Dual: | Type A +Type C | 15 + 100 | |
| - | 6430360-27 | 6430360-37 | Single: | Туре С | 100 | |
| | 6430360-67 | 6430360-77 | Single: | Type C + Data | 100 | |

Table 1.4



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2.1 COOLING

No external cooling is required. The unit will become warm when in use. This is normal and within operational parameters. No special mounting considerations are required; however, mounting to a metal surface can help dissipate any heat generated and extend the life of the product. For the 100W versions, mounting to a metal surface or other thermal management approach is recommended. If a metal surface is unavailable, installing the unit in a location with air movement would be one such thermal management option.

2.2 EQUIPMENT LOCATION

The TA360 Series MAX Power USB Charging Port is designed for mounting flexibility, allowing for installation in the cockpit or in the cabin. It is designed for panel mounting and can be installed in a rectangular configuration or, with an available installation kit, can be mounted with a round or rectangular cosmetic cover plate. An instrument mounting adapter bracket is also available to easily mount the unit in a standard 2-inch round instrument opening that may already exist in the cockpit panel.

The unit can be mounted in any orientation. Clearance should be provided for the mating connector which may require up to an additional inch beyond the rear of the unit.

2.3 ROUTING OF CABLES

Avoid sharp bends in cabling and routing near aircraft control cables. Avoid close proximity and contact with aircraft structures, avionics equipment or other obstructions that could chafe wires during flight and cause undesirable effects.

2.4 LIMITATIONS

Environmental qualifications were verified per RTCA DO-160, Revision G in lieu of those identified within the minimum performance standards (MPS) of the TSO.

The conditions and tests for TSO approval of this article are minimum performance standards. Those installing this article, on or in a specific type or class of aircraft, must determine that the aircraft installation conditions are within the TSO standards, specification of the article and deviations as listed above. TSO articles must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.

Installation recommendations provided in section 2.1. should be considered for 100W units when used in continuous operation under high-power conditions.

The USB PD is an extremely capable new technology for personal electronic devices. Beyond the physical format of the Type-C connector, it also allows for a variety of interface options when communicating with compatible devices. This device-to-charger communication is defined within the USB 3.1 Specification and Power Delivery standards. However, manufacturers of consumer electronic devices and/or cables may choose to implement proprietary versions or modifications of the USB standards to operate specifically with their own charging equipment. The TA360 has been tested with and supports a wide variety of devices now emerging on the open market. However, compatibility with all devices may not be guaranteed. True Blue Power continues to be proactive in evaluating new devices and strives to continually improve the product as needed to serve the vast majority of USB-charged electronic products.

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Data pass through ability may require special care such as the use of shielded cables depending on transfer speeds. Follow the recommendations for connected equipment.

2.5 MODIFICATIONS

This product has a nameplate that identifies the manufacturer, part number, description, certification(s) and technical specifications of the unit. It also includes the "MOD" or modification number representing notable changes in the hardware design of the unit.

Modification (MOD) 0 is the initial release of the product and is identified on the nameplate by the lack of marking on the MOD numbers 1 through 9 (i.e. 1-9 are visible). All subsequent modifications are identified on the nameplate by the marking/blacking out of that particular MOD number (i.e. for MOD 1, the number 1 is not visible and 2-9 are visible - see Figure 2.1 for examples). MODs do not have to be sequentially inclusive and may be applied independent of each other.

For additional details regarding specific changes associated with each MOD status refer to the product published Service Bulletins at <u>www.truebluepowerusa.com</u>.

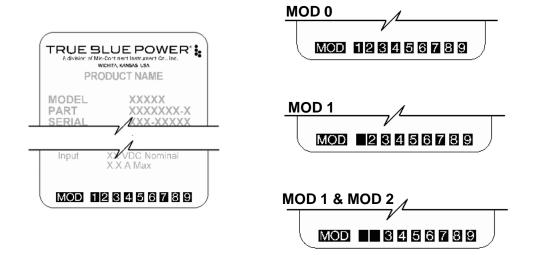


Figure 2.1 Nameplate and MOD Status Example

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SECTION 3 INSTALLATION

3.1 **GENERAL INFORMATION**

This section contains interconnect diagrams, mounting dimensions and other information pertaining to the installation of the TA360 Single and Dual USB Charger. After installation of cabling and before installation of the equipment, ensure that power and ground are applied to the proper pins specified in Section 3.3.2, Pin Assignment Information.

3.2 UNPACKING AND INSPECTING EQUIPMENT

When unpacking this equipment, make a visual inspection for evidence of any damage that may have occurred during shipment. The following parts should be included:

| A. MAX Power USB Charging Port | MCIA P/N 6430360-() |
|---|----------------------|
| B. Installation Manual | MCIA P/N 9019411 |
| C. Connector Kit | MCIA P/N 9017960 |
| i. Power Connector kit | |
| ii. Mounting screws | |
| D. Connector Kit, for Type C+Data only | MCIA P/N 9017960-1 |
| i. Power/Data Connector Kit | MCIA 1/N 9017900-1 |
| | |
| ii. Mounting screws | |
| Ontional Equipment Available: | |
| Optional Equipment Available: | |
| A. Dual Port Instrument Mount Adapter Kit | MCIA P/N 9017947 |
| B. Single Port Rear Mount Faceplate Kit | MCIA P/N 9019351-1 |
| C. Dual Port Rear Mount Faceplate Kit | MCIA P/N 9017958 |
| D. Single Port Rear Mount Circular Faceplate | MCIA P/N 9019384-3 |
| E. Dual Port Rear Mount Circular Faceplate | MCIA P/N 9019384-4 |
| F. Single Right Angle Adapter Kit | MCIA P/N 9010360-1 |
| G. Single Port Multi-Unit DZUS Mount Adapter, Black | MCIA P/N 9010361-1 |
| H. Dual Port Multi-Unit DZUS Mount Adapter, Black | MCIA P/N 9010361-2 |
| I. Single Port Multi-Unit DZUS Mount Adapter, Gray | MCIA P/N 9010361-3 |
| | |
| J. Dual Port Multi-Unit DZUS Mount Adapter, Gray | MCIA P/N 9010361-4 |
| Equipment Not Provided: | |

| Α. | Cable Harness Wire | See Section 3.3.1 for specifications |
|----|--------------------|--------------------------------------|
| | | O T 1 1 0 0 |

B. Circuit Breaker

See Table 3.2

3.3 **CABLE HARNESS**

Construct the cable harness following the instructions outlined below and per Figure 3.1. Refer to Section 2: Pre-Installation Considerations, for routing precautions.

3.3.1 Wire Gauge and Circuit Breaker Selection

Use of PTFE, ETFE, TFE, Teflon or Tefzel insulated wire is recommended for aircraft use. The wire harness should utilize 20-22 AWG stranded wire depending on model. Refer to table 3.1 below. This table is provided to aid in the consideration of voltage drop due to harness length. Any other wiring standards that are applicable to the installation should also be considered.

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| | Wire Gauge | Wire Length |
|--------------|----------------------|-------------|
| 0014 | 20 AWG stranded wire | 18 ft |
| 60W units | 22 AWG stranded wire | 11 ft |
| units | 24 AWG stranded wire | 7 ft |
| 100W | 20 AWG stranded wire | 13 ft |
| units | 22 AWG stranded wire | 8 ft |

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Table 3.1 Wire Gauge and Length

| | Circuit breaker recommendations | | | |
|---------|---------------------------------|------------|----------------|--|
| | Non-Lighted | Lighted | Breaker (Amps) | |
| | 6430360-1 | 6430360-11 | 5 | |
| Numbers | 6430360-3 | 6430360-13 | 5 | |
| h | 6430360-7 | 6430360-17 | 5 | |
| | 6430360-21 | 6430360-31 | 7 | |
| Part | 6430360-27 | 6430360-37 | 7 | |
| | 6430360-67 | 6430360-77 | 7 | |

Table 3.2 Circuit Breaker Recommendations

3.3.2 Pin Assignment Information

For units without data: INPUT POWER: Pin A (keyed): +28VDC Pin B: Ground

For units with data: INPUT POWER: Pin A (keyed): Data – Pin B: +28VDC Pin C: Ground Pin D: Data +

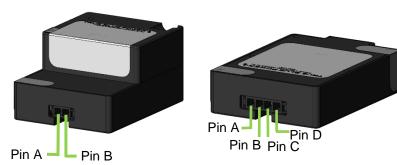


Figure 3.1 Power Input

Note: Pins should be crimped using Molex Hand Crimp Tool 63819-0000 (Preferred), 63811-2800 (obsolete) or 11-01-0200 (obsolete). See the Molex Hand Crimp Tool User Manual for crimp procedures.



3.3.3 Harness Verification

Note:

The TA360 has built-in reverse polarity protection for the power connector. If Pins A and B are swapped, the unit will not function but will not be damaged.

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Once the cable harness is prepared, prior to connecting the TA360, activate the aircraft power bus and use a multimeter to verify that aircraft power and ground is supplied with appropriate voltage on the proper pins within the mating harness.

3.4 MOUNTING

The TA360 can be installed in one of five ways:

- right angle adapter ⁵
- rear mount, rectangular
- instrument mount ¹²³
- rear mount, decorative faceplate ¹⁴
- rear mount, circular faceplate ¹³
- DZUS mount adapter¹³⁶
 - ¹ Installation kit required. See Section 3.2, Optional Equipment Available for part number reference
 - ² Dual port units only ³ Plack appdized
 - ³ Black anodized
 - ⁴ Brushed aluminum, bare (appropriate for additional plating/finish)
 - ⁵ Single port units only
 - ⁶ Gray Painted

The right angle adapter is ideal for areas with shallow depth and is able to be used with various mounting options. The adapter can be used with any of the single TA360 mounting installations. To affix the adapter onto a TA360 see Figure 3.3.

Prepare the panel cutout as shown in Figures 3.4 thru 3.10 per the selected mounting option.

- Countersinks shown in the panel cutouts for flat head screws are optional. However, flat head screws are provided for flush appearance. For Rear Mount Cover Plate Installations, countersinks in the panel are required.
- For Rear Mount Installations: Mounting screws length MUST be between (PT +0.150") and (PT +0.210"). [PT = panel thickness] Mounting screws provided with the unit are 0.24" and 0.31". (Accommodates 0.030" to 0.160" PT) For PT greater than 0.125, the USB connector will be below the surface of the panel (below flush).
- For Rear Mount Installation with Cover Plate: Panel thickness greater than 0.065 will cause the USB connector to be below the surface of the Cover Plate (below flush).

Note: When using 100W units under a continuous high-power load, installation recommendations provided in section 2.1. should be considered. Mounting the unit to a metal surface will greatly reduce the self-heating and help prevent thermal shutdown during extended high-power conditions. Without any thermal management, under worst case conditions, the exterior of the device can exceed 65°C. Under any conditions, should the temperature of the unit exceed its set threshold, it will safely shut down. (see section 4.2)

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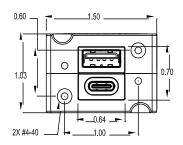
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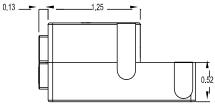


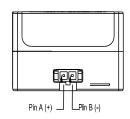
3.5 INSTALLATION COMPLETION

Prior to operating the unit in the aircraft, it is recommended to verify the output and functionality of the unit. In order to prevent accidental damage to other systems, it is not recommended to attach the output to other equipment prior to verification. Verify the output of the unit at the terminating end of the cable with a multimeter to ensure proper voltage and polarity. Once verified, installation can be completed, and functionality should be checked.

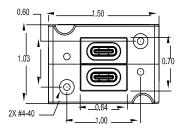
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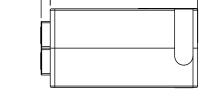






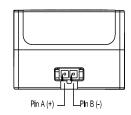
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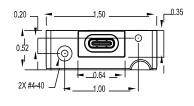


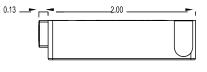


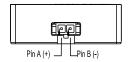
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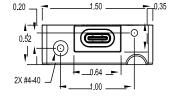
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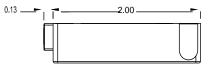
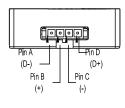
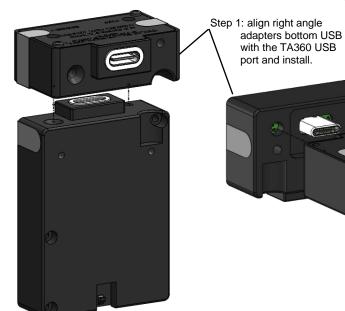


Figure 3.2 **TA360 Outline Drawing**

with the TA360 USB port and install.

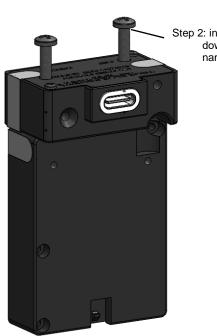




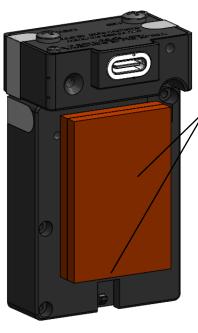
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Step 2: install screws (x2) down through +'s in nameplate.



Step 3: place foam (x2) approximately in the center. Do not place over the power connector.

Figure 3.3 Right Angle Adapter Installation

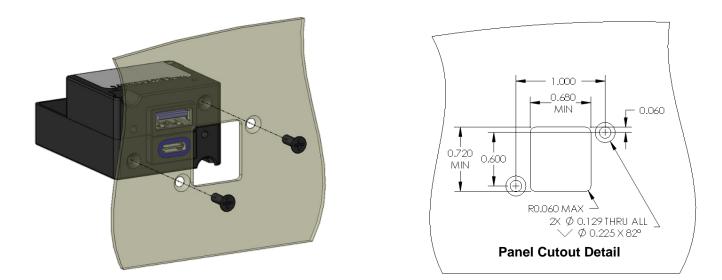
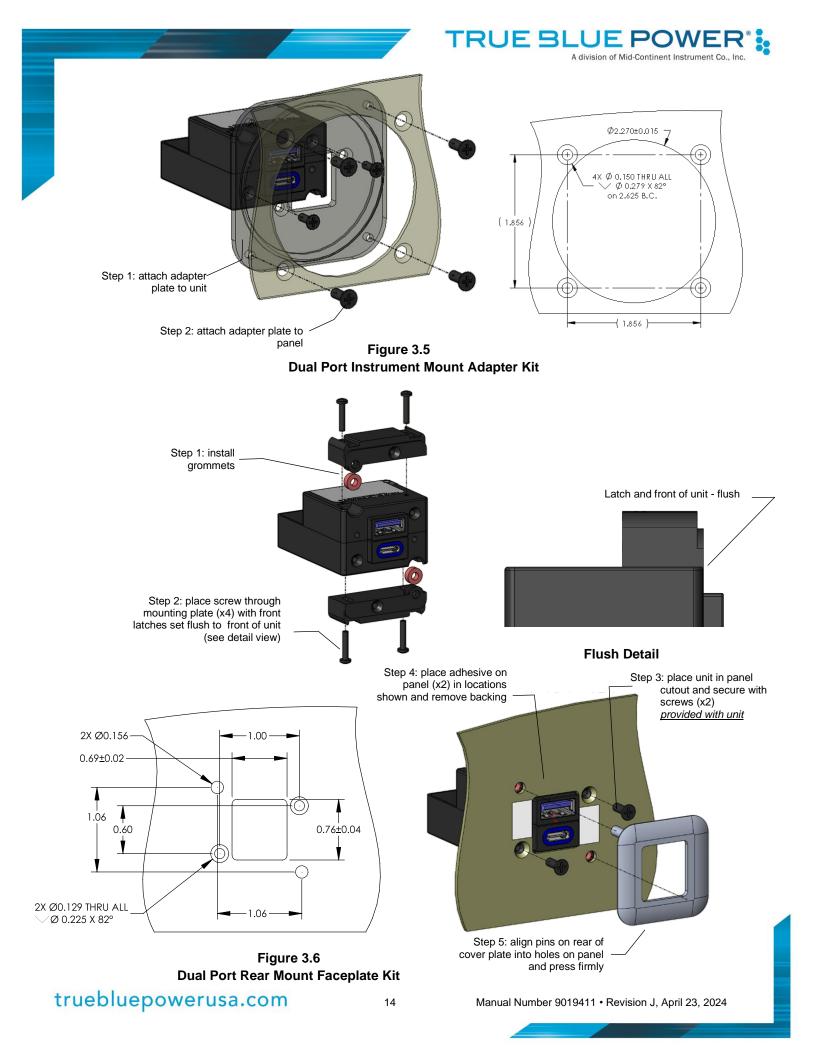


Figure 3.4 Dual Port Rear Mount Installation



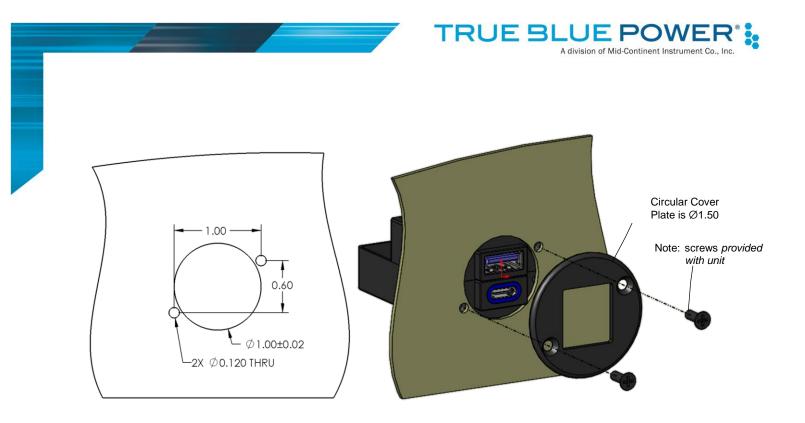


Figure 3.7 Dual Port Rear Mount Circular Faceplate

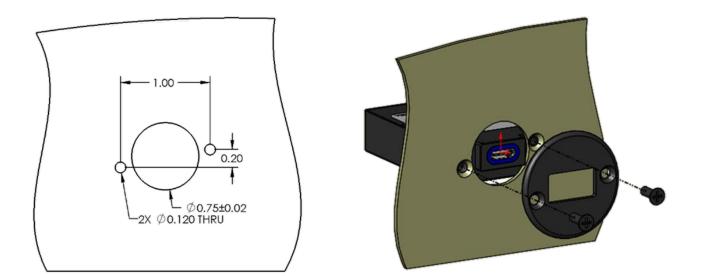


Figure 3.8 Single Port Rear Mount Circular Faceplate



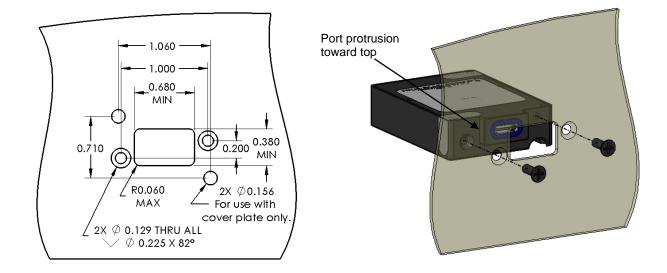


Figure 3.9 Single Port Rear Mount Installation

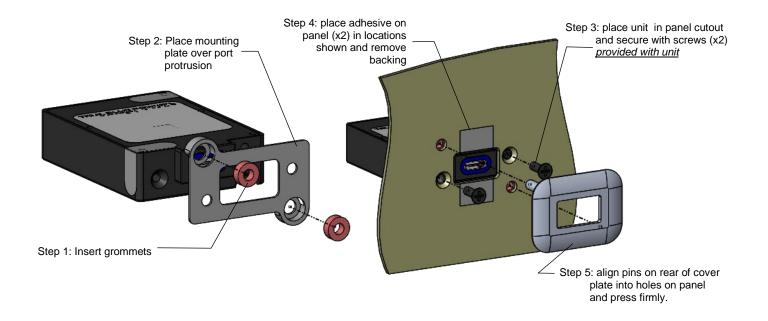
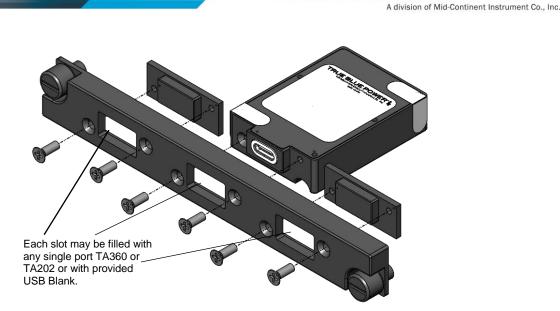


Figure 3.10 Single Port Rear Mount Faceplate Kit



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Figure 3.11 Single Port Multi-Unit DZUS Mount Adapter Kit, Black or Gray

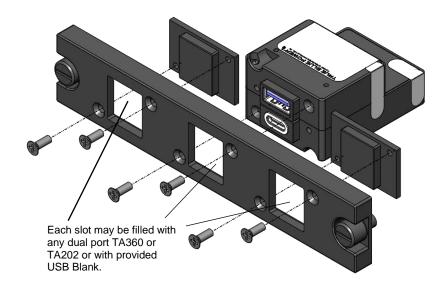


Figure 3.12 Dual Port Multi-Unit DZUS Mount Adapter Kit, Black or Gray



SECTION 4 OPERATION

4.1 ELECTRICAL PERFORMANCE

The TA360 Series MAX Power USB Charging Port converts a DC input voltage within the specified range to various output voltages, depending on the port type and device being charged. The Type A supplies 5V while the Type C ports intelligently negotiates with the device it is charging to provide either 5V, 9V, 15V or 20V. Type A ports provide up to 3 amps for 15 watts of power and Type C ports utilize the USB PD protocol to provide either 3 amps for up to 60 watts or 5 amps for up to 100 watts; depending on unit version. The TA360 will identify the maximum power that the attached device can receive and provide the fastest charge rate allowable.

(Note that per UL 1310, as a Class 2 power device, the TA360 is restricted to no more than 100 watts. Thus, per the over-voltage limit of USB PD, the 20V output is restricted to 4.65A at up to 21.5V)

The unit is designed as a DC-to-DC converter with a series switch on each output to regulate current applied to that output. Each series switch independently reduces the output current to a safe level if the USB portable device draws excess current, is shorted, or has a fault.

4.2 **PROTECTIVE FEATURES**

4.2.1 Over-Current Protection

The TA360 monitors power individually on each port. During an over-current condition, the output power is disabled until the over-current condition is resolved with the connected device.

4.2.2 Short Circuit Protection

The TA360 will survive a short circuit event without permanent damage. The unit disables output power as it would for over-current protection until the short is removed.

4.2.3 Low Input Voltage Shutdown

If the input voltage applied to the TA360 drops below 22 VDC the unit will shut down until the applied voltage returns to a level within range.

4.2.4 Over-Temperature

When the internal temperature of the TA360 exceeds designed thresholds, the unit will shut down and stop providing power. When the temperature returns to an acceptable level the unit will automatically begin providing power as requested.

4.2.5 Reverse Polarity

The TA360 will protect itself against being installed with the input power wires reversed.

SECTION 5 CONFORMANCE

5.1 INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

No periodic scheduled maintenance or calibration is necessary for continued airworthiness of the TA360 Series USB Power Delivery Charging Port. If the unit fails to perform to specifications, the unit must be removed and serviced by Mid-Continent Instruments and Avionics or their authorized designee.

5.2 ENVIRONMENTAL QUALIFICATION STATEMENT

| MODEL NUMBER: | TA360 Series | PART NUMBER: | 6430360-() |
|--|------------------------------------|---------------------|--------------------|
| DESCRIPTION: | USB Power Delivery Charging Por | t CERTIFICATION: | FAA TSO-C71 |
| MANUFACTURER: | True Blue Power, a division of Mid | -Continent Instrume | nt Co., Inc. |
| ADDRESS: 9400 E. 34 th St. North, Wichita, KS 67226, USA. | | | |
| SPECIFICATION: Test Specification (TS) 742 Test Data Sheet (TDS) 742 | | 2 | |
| STANDARD: | RTCA DO-160, Rev G, dated 12/0 | 8/10; MIL-STD-810E | E, dated 7/14/1989 |

| CONDITIONS | SECTION | DESCRIPTION OF TEST | | | |
|--|---------|--|--|--|--|
| Temperature and Altitude | 4 | Category F1 | | | |
| Temperature Variation | 5 | Category S2 | | | |
| Humidity | 6 | Category B | | | |
| Operational Shock and Crash Safety | 7 | Category B | | | |
| Vibration | 8 | DO-160: Category R; Curves C, C1 MIL-STD810E: See Remarks | | | |
| Explosion | 9 | Category E | | | |
| Waterproofness | 10 | Category W | | | |
| Fluids | 11 | Category X | | | |
| Sand and Dust | 12 | Category S | | | |
| Fungus | 13 | Category F | | | |
| Salt Spray | 14 | Category S | | | |
| Magnetic Effect | 15 | Category Z | | | |
| Power Input | 16 | Category B(XX) | | | |
| Voltage Spike | 17 | Category B | | | |
| Audio Frequency Conducted Susceptibility | 18 | Category R | | | |
| Induced Signal Susceptibility | 19 | Category X | | | |
| Radio Frequency Susceptibility | 20 | Category X | | | |
| Emission of Radio Frequency Energy | 21 | Category H | | | |
| Lightning Induced Transient Susceptibility | 22 | Category X | | | |
| Lightning Direct Effects | 23 | Category X | | | |
| Icing | 24 | Category X | | | |
| ESD | 25 | Category A | | | |
| Fire, Flammability | 26 | Category C | | | |

REMARKS:

Section 4: Category F1 with excursions as declared by the manufacturer:

• 4.6.2: Decompression +8,000 to 50,000 feet

Section 7: Crash Safety Impulse: 11ms, 40g Shock Wave

Section 8: Vibration per MIL-STD-810E: Sine-On-Random, Method 514.4, Cat. 4, Procedure 1

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