



AC-to-DC Converter Kit Installation Instructions

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1 About this document

This document describes how to install the AC-to-DC power kit (U8ACC-00044-0) for the Kymeta Hawk™ u8, Kymeta Goshawk™ u8, and Kymeta Osprey™ u8 user terminals, herein after referred to as "UT".

2 What's in the kit

- (1) 600 W, 24 VDC AC-to-DC power supply
- (1) terminal input power cable (W38D), 244 cm (96 in.)
- (1) W73 AC input cable, 45.7 cm (18 in.)
- (1) North America (NEMA 5-15) to IEC C13 plug
- (1) EU (CEE 7/7) to IEC C13 plug
- (8) M6 × 8 mm button head cap screw

See [Section Appendix A. Power cable drawings](#) for cable identification.

3 Tools required

The following tools are required for installation but are not included with the kit:

- T30 Torx L-key
- T20 Torx L-key
- torque wrench

4 Before you begin

Before installing any components, refer to *Kymeta u8 products safety and handling guide (700-00122-000)* to familiarize yourself with the key steps to remember while installing the AC-to-DC converter kit.

For the mechanical and technical specifications of the 600 W, 24 VDC AC-to-DC power supply, refer to the [HLG-600H product sheet](#).

This power supply is IP67-rated. The "6" in IP67 means the device is completely protected from dust. The "7" indicates the device can be submerged in up to 1 meter of water for up to 30 minutes.

Emersion, directed spray, or prolonged exposure may result in water ingress to cable jackets and water becoming trapped. This may lead to damage to the power supply assembly. To avoid damaging the power supply, please use mitigation measures and best practices when installing in environments with prolonged exposure to water (i.e. using a secondary barrier, potting, wrapping, etc.)

5 Install the AC-to-DC converter kit

If your UT looks like the one below, proceed to Section 5.1 Remove the shroud.

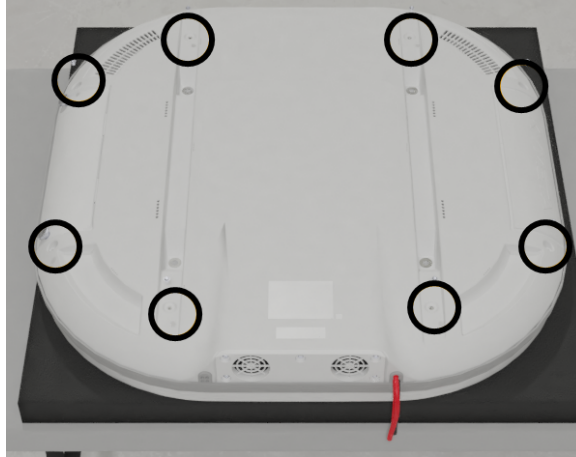


If your UT looks like the one below, proceed to Section 6 Connect the UT to the 600 W, 24 VDC AC-to-DC power supply.

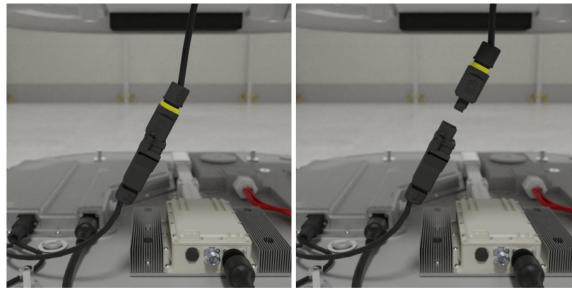


5.1 Remove the shroud


1. Disconnect power from the UT and place it shroud-up on a soft surface to protect the radome.
2. Remove (8) M6 × 8 mm button head cap screws using the T20 Torx L-key or T30 Torx L-key.



3. Gently lift the shroud until the shroud fan cable connector is accessible.
4. Unlock the shroud fan cable connector by rotating the yellow ring counterclockwise to the unlock position, and then disconnect the shroud fan cable as shown below.



5. Fully remove the shroud and place it aside.

 The cable glands are not attached to the shroud and may move freely when the shroud is removed. This is an intentional ease of use feature. Take care not to misplace the cable glands.

5.2 Install the terminal input power cable (W38D)

1. Disconnect and remove the unterminated power cable.



2. Install the terminal input power cable (W38D):
 - a. Align the pins and use the ramp to lock the cable connector.



- b. Install the cable gland so the groove aligns with the shroud cutout. Use the correct sized cable gland and ensure the cable rests snugly in the gland for best performance.



5.3 Reinstall the shroud

1. Reconnect the shroud fan cable. Align the yellow arrows on the cable connectors and then lock the connectors by rotating the yellow ring clockwise to the lock position.
2. Set the shroud in place and ensure external cables and cable glands are properly secured.
3. Ensure the mounting points are clear and cables under the shroud are not pinched. Ensure the metal compression limiter is aligned with the mounting point threads as shown below.




4. Ensure the shroud rests evenly on the beltline.
5. Install (8) M6 × 8 mm button head cap screws provided in the kit using a T30 Torx L-key and torque to 2.8 N-m (25 in.-lb.). These screws have a nylon patch, so Loctite 242 is not required.

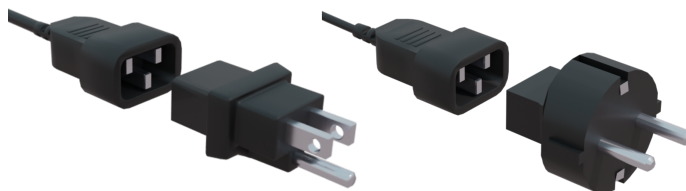
6 Connect the UT to the 600 W, 24 VDC AC-to-DC power supply

1. Mount the UT as required.
2. Place the 600 W, 24 VDC AC-to-DC power supply so that it is secure and within 2.4 m (8 ft.) of the UT. The power supply is IP68 rated and has 2.4 m (8 ft.) of DC cabling with IP67-rated connectors. The locking AC connector has an IP66 rating. Kymeta recommends against lengthening the DC cable.
3. Check that the power supply is not plugged into an AC power source and then connect the power supply to the UT. This interface is IP67 rated. Align the pins and use the ramp to lock in the cable connector. The picture below shows the Hawk™ u8 UT on the left and Peregrine™ u8 UT on the right.



4. Install the correct wall outlet adapter for your region. NEMA-15 and EU standard plugs are included with the kit. If a different regional connector is preferred, the interfacing plug IEC 320 C13 and additional adapters are readily available. If installed correctly, the LED status indicators on the communication module will illuminate.

 The NEMA-15 and EU standard plugs included with the kit are not outdoor rated.



7 Customer support

Contact Kymeta customer support at support@kymetacorp.com or call Kymeta **1-855-525-6638** for urgent issues.

8 Revision history

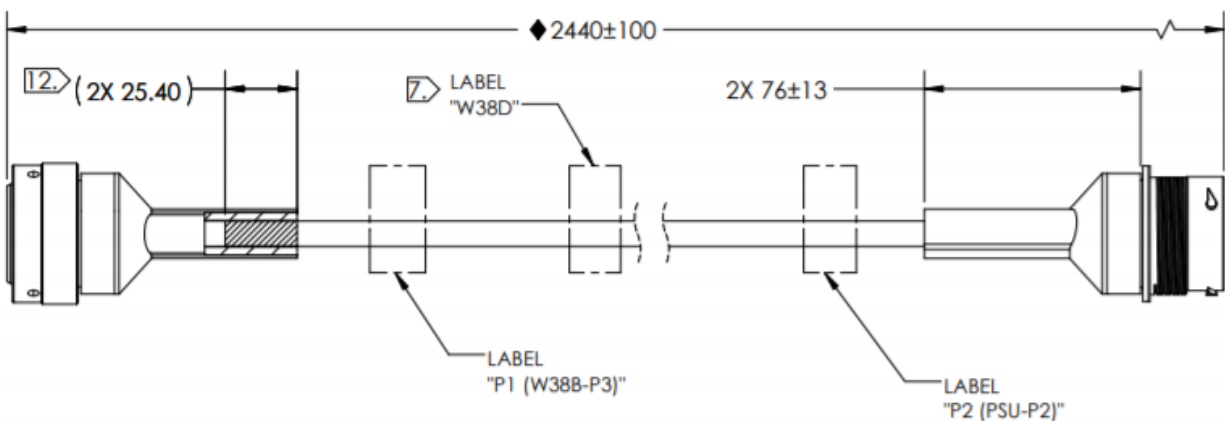
Revision	Change
A	Initial version.
B	Updated product codes.
C	Updated M6 fasteners and Torx spec.
D	Removed U8ACC-00002-0 reference. Updated images.
E	Added instructions for LEO UT configurations.
F	Added a link to the HLG-600H power supply. Updated Section 6 "Connect the UT to the 600 W, 24 VDC AC-to-DC power supply".
01	Added instructions for the Osprey u8 – HGL terminal. Added the Goshawk u8 UT compatibility.
02	Updated "Before you begin" section.

9 Copyright and trademark information

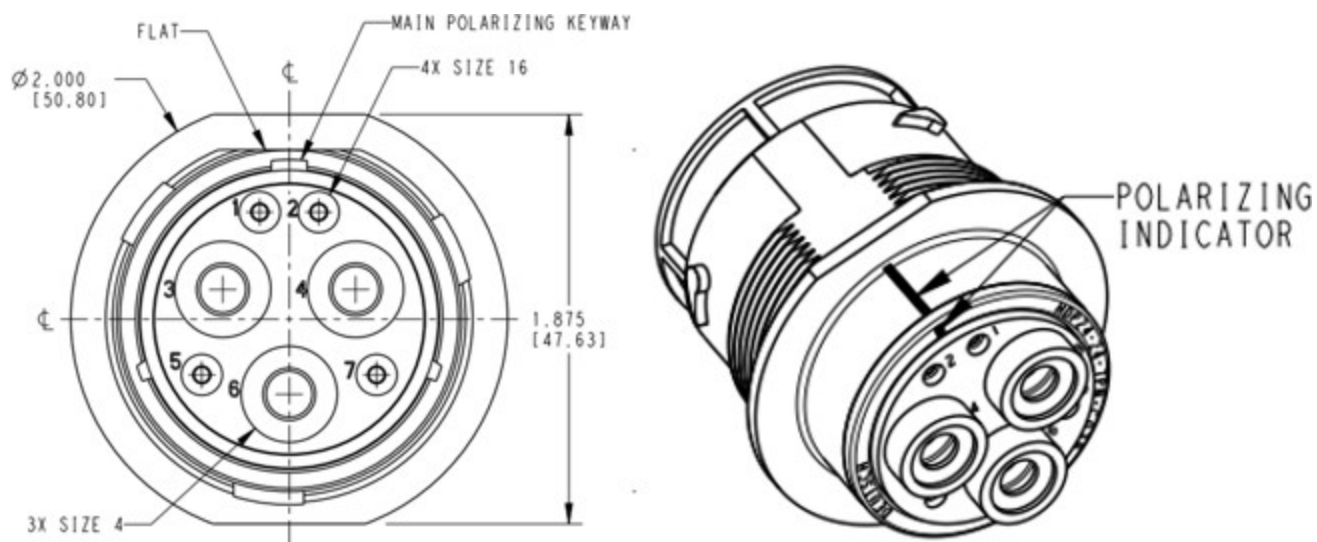
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Appendix A. Power cable drawings

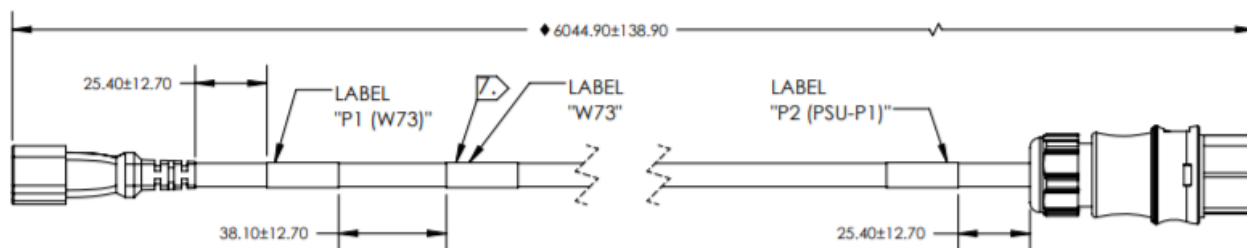
W38D cable



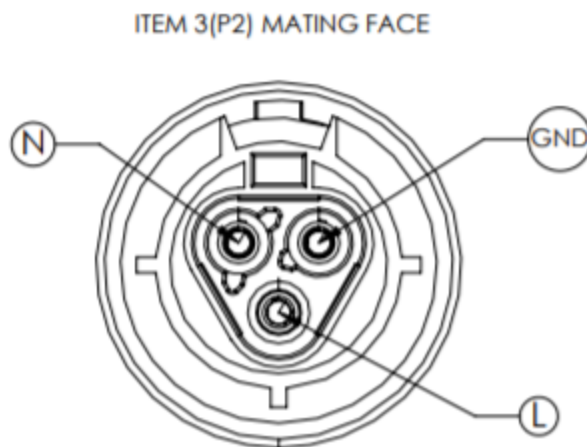
Circular connector



W73 cable



3-pole connector Wieland Electric PN: 96.031.4053.1



IEC 320 C13 connector

