tech tips

TECHNICAL INFORMATION AND PRODUCT SOLUTIONS

Connecting ONEAC Power Conditioner and UPS Products Equipped with IEC Receptacles

This tech tip addresses questions asked frequently by users of ONEAC's international and medical-grade Power Conditioners and UPS products.

How do I connect a 50/60 Hz ONEAC Power Conditioner or UPS, equipped with IEC receptacles, between the local AC mains power and the critical electronic equipment I want to protect?

With Plug & Play Simplicity

ONEAC 50/60 Hz Power Conditioners and UPS products which operate at 1500 VA and below ("ONEAC Devices") feature IEC receptacles and are equipped with one or more IEC 320 (Male to Female) cords. See figure 1.

Equipment manufacturers that market globally are faced with the challenge of providing systems that are compatible with differing voltages, frequencies and connector styles. Without the use of IEC connectors, this would require a myriad of different product versions. The use of IEC connectors simplifies this problem and allows maximum flexibility with a limited number of SKUs.

IEC 320 connectors are used internationally throughout the world and meet global IT electrical and medical standards. All international power cords, for the classes of equipment ONEAC supports up to 1500 VA are removable and have an IEC 320 C13 Female connector at one end and a country-specific connector at the other end. See figure 1.

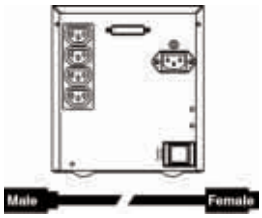

Figure 1. ONEAC Device and supplied IEC cord

Figure 2. Input power cord supplied with The Load

Making the Connections

Step 1: Disconnect the input power cord(s) from The Load.

Step 2: Using the IEC 320 input cord supplied with the ONEAC Device, connect The Load to the IEC 320 connectors on the ONEAC device. See figure 3.

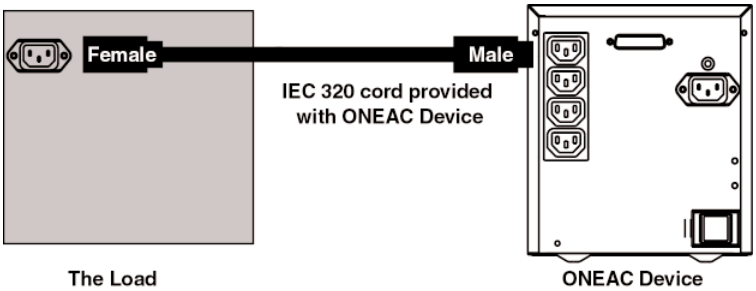

Figure 3. Connecting The Load to the ONEAC Device

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Step 3: Using the input power cord supplied with The Load, connect the ONEAC Device to the AC utility power source. See figure 4.

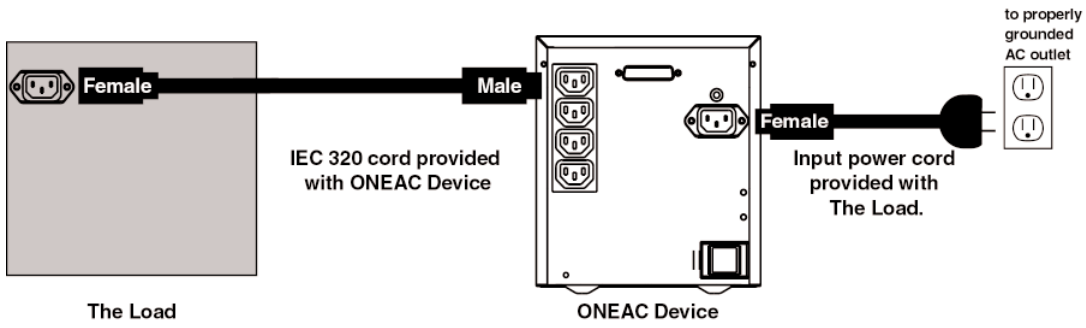

Figure 4. Connecting the ONEAC Device to the AC utility power source

Step 4: Once the ONEAC Device is connected between the AC power source and The Load, toggle the ONEAC Device power switch to the “ON” position (I). Toggling the power switch to the “OFF” position (⏻) will turn the power to the output connectors “off.”

Why is this approach limited to ONEAC products rated 1500 VA and below?

With ONEAC products rated above 1500 VA, the capacity of the input connector may not match that of the input power cord supplied with the load. For applications above 1500 VA or if The Load does not have a detachable input power cord, contact ONEAC Technical Support at (847) 816-6000 Opt. 3, or toll-free at (800) 327-8801 Opt. 3.