# BladeUPS Preassembled Systems FAQs

1. **What racks do the preassembled BladeUPS systems come in?**

   Preassembled systems are now available in the new Eaton S-Series racks as well as the previous Eaton rack that's been used in the past.

2. **What power configurations are the preassembled BladeUPS available in?**

   Preassembled systems are available with either the four- or six-module BladeUPS parallel bars. The four-unit bar allows only up to 48kW of UPS to be installed and is slightly less costly for customers who'll never exceed that capacity. The six-unit bar can be configured for up to 60kW with N+1 redundancy.

3. **If I install the 4 high (48kW) bus bar today and for some unforeseen reason I need to expand to 60kW (N+1) in the future, can the system be modified to do that?**

   Yes, in contrast to our competitors, Eaton's BladeUPS is highly flexible and uses very modular components, so you don't need to replace the entire frame and start over if your power needs change. You simply remove power from the loads and shut down the UPS modules to swap out the parallel busbar with a new six-unit bar. The existing wire-way in either the bottom or top of the rack can be reused.

4. **Do you provide cabling for other BladeUPS accessories?**

   Sometimes. The Maintenance Bypass Modules (MBMs) and BladeUPS Maintenance Bypass Cabinets (MBCs) with distribution (480V to 208V) must be hardwired by an electrical contractor, who's responsible for the cabling. Eaton does provide the cabling for other accessories that plug into the UPS chassis, such as Extended Battery Modules (EBMs) and Rack Power Modules (RPMs).

5. **Are preassembled systems available for installations without a raised floor?**

Yes, the preassembled system is available with top and bottom entry in the 12-60kW N+1 configuration, as well as the 12-48 kW configurations.  This allows easier installation in either a raised or non-raised floor environment.

6. **If I order a system with bottom cable entry, then I need to switch it to top cable entry, can I do that?**

No, the BladeUPS busbar assembly is specifically designed to handle either top or bottom cable entry points, and can't be flipped over in the field. However, the 6U wire-way assembly is universal, so it can be relocated in either position. You'd merely need to order the proper busbar assembly for the new configuration.

7. **Why are some of the batteries placed outside of the rack on the shipping pallet?**

Due to the possibility of the rack being too top heavy, we never ship batteries installed in the top two module positions (5th or 6th units of either the 60kW or 60kW N+1). Instead, batteries are shipped in standard shipping cartons either on the same pallet or on a second pallet. With the new Eaton S-Series racks, we went to a smaller, squarer pallet, to be easier to maneuver once unloaded from the shipping truck, so those will have those batteries on the second pallet. Configurations using the older Eaton racks will have the top two modules' batteries located on the pallet alongside the rack.

The user guide contains the simple instructions for installing these batteries after the preassembled system has been removed from the pallet and placed into its installed position. The only tool required is a #2 Phillips screwdriver.

8. **Do communication cards come installed and tested on preassembled systems?**

   Yes, all Web/SNMP, Modbus, Power Xpert UPS, standard relay or industrial relay cards will be installed and tested at the factory. The associated external cables for these items are placed, along with the relevant user manual, in an accessory box inside the rear door of the rack during shipment. Additionally, the parallel communications functionality between the individual BladeUPS modules is verified at the factory prior to shipment.

9. **Do preassembled systems include factory installation of BladeUPS accessories such as EBMs, RPMs and MBMs?**

   At this time, preassembled systems don't include the factory installation of any accessory items. Eaton does offer new preassembled startup services that include the installation of such items onsite. (See question 12.)

10. **Are the 400V BladeUPS products available in the preassembled configuration?**

    The 400V preassembled systems aren't part of the initial product release. However, such configurations are possible, so if you have an opportunity for such a system, please contact product management.

11. **Are other rack options available?**

    Yes, there are many available rack options, including rack hygiene, blanking panels, cable management, KVMs, environmental sensors, etc., that can be ordered as separate line items. Such items would need to be self-installed or you'd need to purchase Eaton's new onsite preassembled startup service. (See question 9.)

**12. What service options are available?**

Since preassembled systems are shipped with all BladeUPS modules factory installed, there's no need for onsite installation of the individual modules in the rack. However, many customers like to have factory-authorized services check out their installation and system prior to startup to ensure years of trouble-free operation.

If a preassembled system is ordered in conjunction with BladeUPS accessories and onsite installation is desired, Eaton offers a variety of preassembled startup services, as noted in the table below.

| Description | Catalog Number | Coverage | # of Accessory Items Installed |
|---|---|---|---|
| Standard Startup, 12-60 kW | W2SU06NXXX-0080 | 5 x 8 | 0 |
| Standard Startup, 12-60 kW | W2SU05NXXX-0080 | 7 x 24 | 0 |
| New! Preassembled Startup Level 1 | W2SUPS06NXXX-0080 | 5 x 8 | up to 20 |
| New! Preassembled Startup Level 1 | W2SUPS05NXXX-0080 | 7 x 24 | up to 20 |
| New! Preassembled Startup Level 2 | W2SUPR06NXXX-0080 | 5 x 8 | up to 40 |
| New! Preassembled Startup Level 2 | W2SUPR05NXXX-0080 | 7 x 24 | up to 40 |

a. BladeUPS accessories that are eligible for installation include EBMs, RPMs, MBMs, ePDUs, additional enclosures, and enclosure accessories such as airflow or cable management. If an item appears on an order with a quantity of one, it counts as one accessory item.

b. The standard assembly and setup services (W2AS00N000-015, W2AS00N000-0080) are <u>not</u> applicable to preassembled systems. However, all other support plans are available. These preassembled startup services exclude the unpacking of the preassembled system itself, which must already be in its installed position, with power applied.

c. For system installations with more than 40 accessory items, please contact Eaton service.

**13. What serial number do I provide when calling for warranty or other services/support on a preassembled system?**

The preassembled rack has a serial number located on the label that's found on its front door. For long-term reference, this serial number is also located on a smaller label inside the rack on the rear left frame.

**14. If I'm remotely monitoring the system, will the system serial number be visible via my remote connection?**

No, your remote connection will pick up the serial number of the individual UPS module you're talking with, which is the one with the communication card, but not the entire system. It would be best to store the entire system serial number in your asset tracking system (or on your PC), so if service is ever needed, you can reference that number when you call our service hotline.

**15. What are the shipping weights/dimensions as well as the Installed weights/dimensions?**

Shipping dimensions and installed dimensions are available on our Web site as well as in the UPS price guide. As a general rule of thumb, units shipped in the older Eaton enclosures having shipping dimensions of 86.5"H x 32"W x 77"D, and weights ranging from 1,050 pounds with one module to 2,640 pounds fully loaded. (Each UPS module is about 322 pounds.) The new S-series racks have shipping dimensions of 87"H x 37"W x 60"D, with a second pallet of 15"H x 32"W x 48"D if 5th or 6th units are ordered installed.

**16. Can preassembled systems ship internationally?**

Yes, preassembled systems can ship internationally if they're transported by land or ocean.

## 17. What is the lead-time for preassembled systems?

Preassembled systems are available with an ARO lead-time of five to seven days.