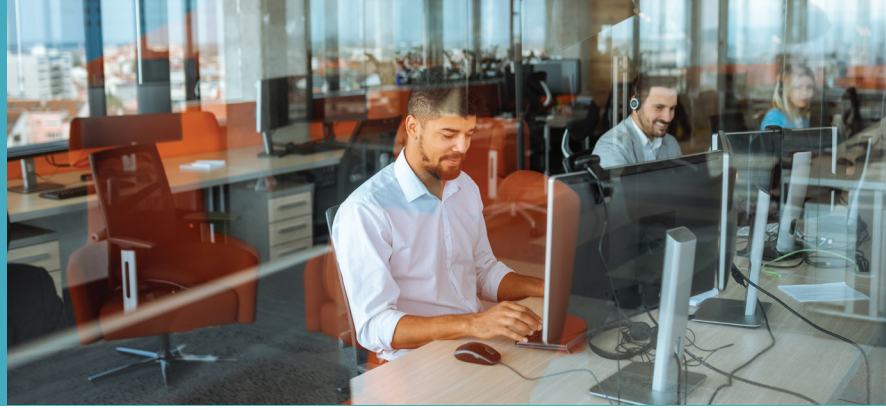
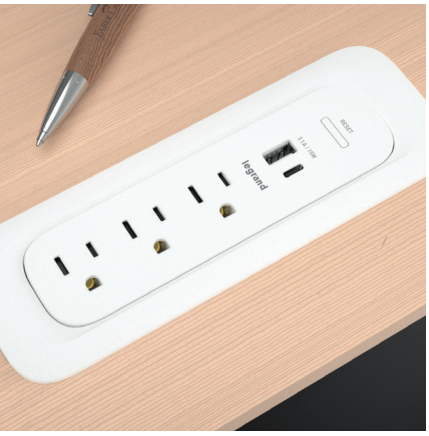
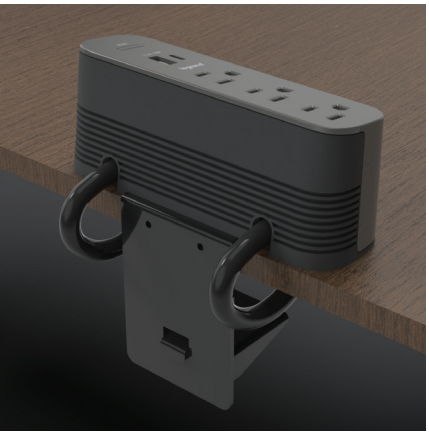
# HOW TO MEET CODE WITH THE MODPOWER™ SYSTEM:

## Understanding the Supplement SD Under UL 962A





## The first and only code compliant modular power system.

For anyone working with office furniture, including facility teams and building owners, power is critical. It's important to find power products for workspace tables that can be quickly reconfigured so employees can maximize collaboration and productivity. This is where flexibility is key: People move. Equipment moves. Furniture moves. Power must be easy to change and relocate.

**Until now, there were zero listed products for reconfigurable power applications, including those that install on or in furniture itself.**

Each furniture power distribution unit was required to be directly connected to a wall or floor outlet. It wasn't uncommon to see daisy chain configurations with relocatable power taps or furniture power distribution units, especially around office furniture where power was needed for multiple workstations. But this was dangerous and violated the National Fire Code (NFPA 1) and Occupational Safety and Health Administration (OSHA) rules.

**Daisy chaining violates the National Fire Code (NFPA 1) and Occupational Safety and Health Administration (OSHA) rules.**

Products are marked with warnings against daisy chaining, yet it has been a common practice. Because most of these installations occur after the electrical inspector has finished his/her inspection, these violations are not easily discovered. These installations are unsafe and are known to cause fires.

NFPA 1, Section 11.1.4.2 states that "The relocatable power taps shall be directly connected to a permanently installed receptacle".

OSHA's standard at 29 CFR §1910.303(b)(2), Installation and use, requires that "Listed or labeled equipment shall be installed and used in accordance with any instructions included in the listing or labeling." Manufacturers and nationally recognized testing laboratories determine the proper uses for power strips.

Per UL 1363, the Standard for Relocatable Power Taps:

- A RPT is intended to be connected to a permanently installed branch circuit receptacle outlet.
- A RPT is not intended to be series connected (daisy chained) to other RPT or to extension cords

Per UL 962A, the Standard for Furniture Power Distribution Units:

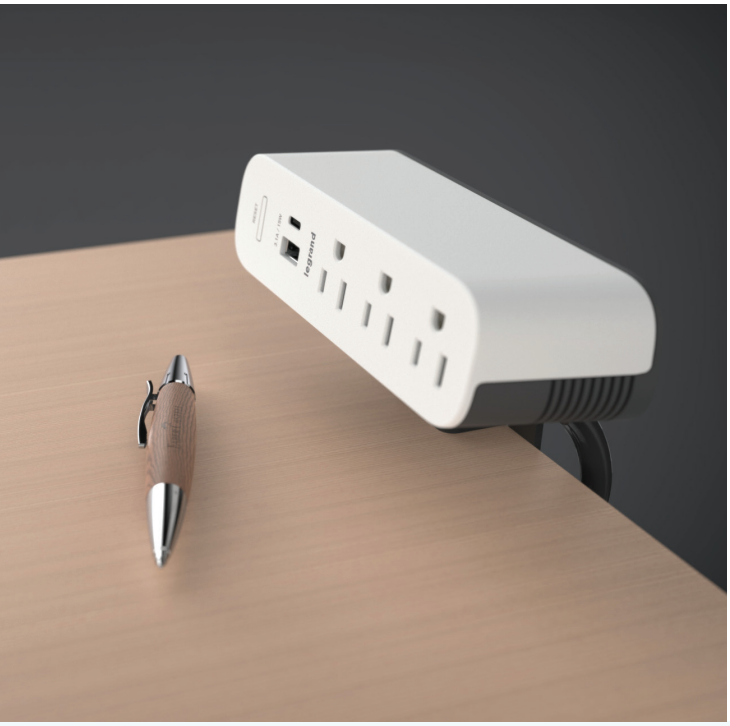
- A FPDU is intended to be connected to a permanently installed branch circuit receptacle outlet.
- FPDU are not intended to be series connected (daisy chained) to other FPDUs to relocatable power taps or to extension cords.

**On June 12, 2020, a new UL Supplement was approved: Supplement SD - Furniture Power Distribution Units for Portable (Movable) Work Space Tables. This new Supplement SD is included under UL 962A – the ANSI/UL Standard for Furniture Power Distribution Units.**

Now—products can be evaluated and listed as safe reconfigurable furniture power distribution assemblies by a Nationally Recognized Testing Laboratory. This ensures a safe solution is available for reconfigurable portable workspace tables in office areas.

Prior to June 12, 2020, no standard existed for listing this type of product. Legrand introduces the first and only code compliant option: the ModPower System.

Legrand is excited to bring to market the first product evaluated and listed to the new UL 962A Supplement SD. Here are some highlights of what this means and how to ensure the installation is compliant:



- The primary unit can be connected to a wall or floor outlet **via a non-detachable power supply cord.**
- Additional units may be connected to the primary unit via interconnecting cords that utilize **grounding-type non-NEMA style connectors.**

  *NEMA style plugs and receptacles, for example 5-15P, 5-15R, 5-20P and 5-20R, may not be used as part of the interconnecting cords to ensure that units are not plugged into a standard relocatable power tap or furniture power distribution unit.*
- Legrand's primary unit is rated 125V, 15A. Supplement SD requires that all subordinate units be rated in compliance with **Table 210.21(B)(2) which limits the load to 80% of receptacle rating.** Therefore, all subordinate units in our system are rated 125V, 12A.
- All units, including primary, middle and end, utilize a circuit breaker. Supplement SD requires that all furniture power distribution units for portable (movable) workspace tables contain **supplementary overcurrent protection.**

  *This requirement was established to ensure that each unit would stop supplying power in the event of an overload or short circuit. The required supplementary overcurrent protection provides protection against fire and electrical injury.*
- Supplement SD limits the overall length of modular assemblies to **50 feet.**

  *The measurement is taken from the outside surface of the last unit to the face of the plug on the primary unit's non-detachable power supply cord. Legrand has evaluated and listed our system to allow for the connection of (6) total units with a maximum length of 48.5 feet.*

## CODE MARKINGS

Supplement SD requires additional product markings to ensure that the product is installed and utilized in a safe manner.

- The cord tag contains the following text:

  CAUTION: To Reduce the Risk of Shock or Fire – Use Only with LEGRAND'S FURNITURE POWER DISTRIBUTION UNIT (FPDU) for Movable Work Space Table Modules Only.

  This requirement was adopted to prevent users from inadvertently connecting Legrand's product to that of another manufacturer. UL has only evaluated the safety and reliability of Legrand's complete assembly of furniture power distribution units for portable (movable) workspace tables.
- Supplement SD requires that the following warning be included on the cord tag of male interconnecting cords:

  WARNING: Risk of Fire - The overall length of an extendable FPDU for a movable work space table including the power supply cord, all enclosures and all interconnecting cords shall not exceed ___ft ( ___m).

  NOTE: This warning is to be proceeded by the symbol ⚠
- Supplement SD requires the following Caution text that may be on the cord tag or within the installation instructions:

  CAUTION: Risk of Electric Shock. Do not plug into another relocatable power tap, an FPDU or an extension cord.

  Legrand recognizes the importance of this caution text in preventing fires and has placed this marking on the cord tag near the plug on the non-detachable power cord.