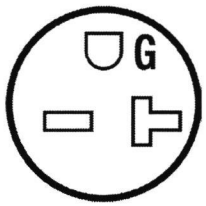
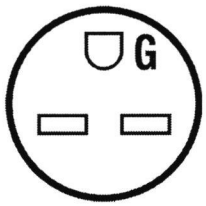
4. Power/Electrical Requirements

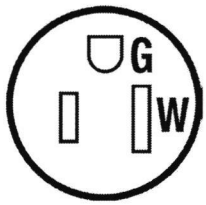
The imagePRESS C850/C750/C650 requires a NEMA 6-20 receptacle for the main unit, a NEMA 6-15 receptacle for the optional Perfect Binder-E1, and a NEMA 5-15 receptacle for the PRISMAsync controller and other optional accessories.



NEMA 6-20 Receptacle



NEMA 6-15 Receptacle



NEMA 5-15 Receptacle

4.1 Power Requirements for the Main Unit and Optional Accessories

Part or Accessory	Power Supply	Power Supply Cord/Plug Specifications	Length of Power Cord
Main Unit	Single Phase 208V AC, 60 Hz, 20A Outlet, Y Configuration	NEMA 6-20	6' 6" (2 m)
PRISMAsync Controller w/Operation Panel and Attention Light	1-120 V/15 A outlet	NEMA 5-15	13.9' (4.2 m)
imagePRESS Server H300	1-100-240V AC, 50/60 Hz, 6A	NEMA 5-15	6' (1.8 m)
imagePRESS Server F200[7]	1-100-240V AC, 50/60 Hz, 6A	NEMA 5-15	6' (1.8 m)
imagePRESS Server G100	1-100-240V AC, 50/60 Hz, 4A	NEMA 5-15	6' (1.8 m)
Duplex Color Image Reader Unit-K1[27]	From the main unit	—	—
POD Deck Lite-C1	1-120-127 V AC, 60 Hz, 2.2 A	NEMA 5-15	6' 6" (2 m)
Multi-Drawer Paper Deck-C1	1-120-127 V AC, 60 Hz, 3.1 A	NEMA 5-15	8.5' (2.6 m)
Multi Function Professional Puncher-A1	1-115V AC, 60 Hz, 3.8 A	NEMA 5-15	6' 6" (2 m)
Booklet Finisher-W1 PRO	1-120-240V AC, 60 Hz, 8 A	NEMA 5-15 UL498, 2-pole, 3-wire, grounding devices rated 125V/15 A	6' 6" (2 m)
Staple Finisher-W1 PRO	1-120-240V AC, 60 Hz, 8 A	NEMA 5-15 UL498, 2-pole, 3-wire, grounding devices rated 125V/15 A	6' 6" (2 m)
High Capacity Stacker-H1	1-100-240V AC, 2.5 A	NEMA 5-15	6' (1.8 m)
Document Insertion Unit-N1	1-120V AC, 50/60 Hz, 1 A	NEMA 5-15 UL498, 2-pole, 3-wire, grounding devices rated 125V/15 A	6' 6" (2 m)
Staple Finisher-T1[9, 27]	From the main unit	—	—
Booklet Finisher-T1[9, 27]	From the main unit	—	—
External 2/3 Hole Puncher-C1[10, 27]	From the finisher	—	—
Paper Folding Unit-J1[27]	From the finisher	—	—
Puncher Unit-BS1 and BT1[27]	From the finisher	—	—

7 The imagePRESS Server is no longer available for purchase.

9 The Staple Finisher-T1 and Booklet Finisher-T1 are available as part of a set item for the imagePRESS C750. The set item includes the Staple Finisher-T1 or Booklet Finisher-T1, imagePRESS Printer Kit-D1 or imagePRESS Server G100, Power Supply-V1, and Upright Control Panel-G1. A different set item is used for the imagePRESS C650, which includes the Staple Finisher-T1 or Booklet Finisher-T1 and Power Supply-V1. The imagePRESS C750 or C650 engine must be purchased separately.

10 Can only be attached to the optional Staple Finisher-T1 or Booklet Finisher-T1.

27 Does not require any additional outlets.

Power Requirements for the Main Unit and Optional Accessories Table Continued

Part or Accessory	Power Supply	Power Supply Cord/Plug Specifications	Length of Power Cord
Booklet Trimmer-F1[27]	From the finisher	—	—
Stack Bypass-B1[27]	From the main unit	—	—
Two-Knife Booklet Trimmer-A1	1-120-127 V AC, 50/60 Hz, 4 A	NEMA 5-15	6' 6" (2 m)
Square Fold Booklet-Maker & Two-Knife Trimmer	1-120 V/15 A outlet	NEMA 5-15	6' (1.8 m)
Square Fold Booklet-Maker	From the SDD Square Fold Booklet-Maker and Two-Knife Trimmer	—	—
Perfect Binder-E1	1-208 V AC, 60 Hz, 3 A	NEMA 6-15 UL498, 2-pole, 3-wire, grounding devices rated 250V/15 A	8.5' (2.6 m)
MAX Ring Binder	1-120 V/15 A outlet	NEMA 5-15	14.76' (4.5 m)
SDD BLM300C Professional Booklet Maker	1-120 V/15 A outlet	NEMA 5-15	6' (1.8 m)
SDD Rotator RTM6940	1-120 V/15 A outlet	NEMA 5-15	6' (1.8 m)
SDD Front Trimmer BLT6989[27]	From the SDD BLM300C Professional Booklet Maker	—	—
SDD 2-Knife Trimmer STR6702[27]			
SDD Long Belt Stacker BST6800[27]			
SDD Short Belt Stacker BST6900[27]			
Plockmatic BLM50/BLM35	1-100-240V AC, 50/60 Hz, 4A	NEMA 5-15	6' (1.8 m)
Trimmer FTR50[27]	From the Plockmatic BLM50/BLM35 Professional Booklet Maker	—	—
Cover Feeder CF50[27]			
Booklet Fold BF50[27]			
Rotate Crease Trimmer BCT50	1-100-240V AC, 50/60 Hz, 4A	NEMA 5-15	6' (1.8 m)
High Capacity Belt Stacker BST4000-1[27]	1-100-240V AC, 50/60 Hz, 4A	NEMA 5-15	6' (1.8 m)

27 Does not require any additional outlets.

IMPORTANT

- We recommend an additional standard 115 V/15 A outlet for service tools, such as a laptop computer or vacuum that may be used when servicing or configuring the machine.
- Use only a dedicated and properly grounded outlet for the main unit. It is also strongly suggested to use dedicated and properly grounded outlets for each optional accessory. Do not use extension cords. The ground connection serves to provide the internal electronics with a reference voltage. Faulty or poor ground sources will cause this reference voltage to fall into a range that no longer serves as a reliable reference voltage. The internal logic and programming of the imagePRESS C850/C750/C650 will not perform reliably because there is an insufficient difference between the internal operating signal voltages and the poor ground reference signal. A qualified electrician can measure and provide the ground source that the imagePRESS C850/C750/C650 or any computer controlled office equipment requires.
- Before installation, confirm that all necessary receptacles are available.
- If the optional Integrated Interface & Stand-A1, which includes a furniture stand, monitor, keyboard, and mouse, is installed on the imagePRESS Server H300, an additional 115V/6 A (NEMA 5-15) receptacle is required for the monitor.
- Step-down transformers are not supported.

5. Environmental Factors and Requirements

This section describes the necessary environmental factors and requirements in which the machine should be operated to achieve the best image quality and print results.

NOTE
It may be necessary to use a humidifier or dehumidifier to attain the proper humidity levels for optimal machine performance.

5.1 Temperature and Humidity Conditions

The optimal humidity range is 15% to 60% RH (Relative Humidity) with a room temperature of 68°F to 80.6°F (20°C to 27°C).

The machine contains intelligent technology that can sense the environmental temperature, and optimize its performance if operated outside the temperature range. However, productivity, paper feeding, and image quality may be affected if the machine is operated outside of these guidelines.

The machine should not be installed in locations with significant shifts in temperature or humidity. Areas containing water, or equipment that can significantly alter room temperature or humidity, such as a heater, stove, or portable air conditioner, should be avoided.

The optimal humidity range for storing paper and toner is 30% to 70% RH (Relative Humidity) with a room temperature of 68°F to 80.6°F (20°C to 27°C). Storing paper and toner in a location that does not meet these specifications, may affect paper feeding and image quality. For example, if the humidity is too high, paper curling and paper jams will increase. If the humidity is too low, paper may shrink or lose resistance, and toner will not adhere to the paper as well.

Only use paper that has fully acclimatized to the environment in which the machine is installed. Using paper that has been stored in a different environment (with a different temperature and humidity), may cause paper jams or result in poor print quality.

5.2 Temperature Gradient

If a sudden temperature change occurs, may have an adverse effect on image positioning. Sudden temperature changes may cause the paper to bend or contract, cause the machine to malfunction, and form condensation. Every effort should be made to maintain consistent temperature and humidity levels in the operating environment at all times for the imagePRESS C850/C750/C650 Series.

If a humidifier must be used to regulate the humidity, use one that has a mineral filter on it.

5.3 Ventilation

Ensure that there is an air exchange rate of at least 1.5 times per hour, and at least 3,885 ft^3 (110 m^3) of space in the location where the machine will be installed.

This machine generates a slight amount of ozone during normal use. Although sensitivity to ozone may vary, this amount is not harmful. Ozone may be more noticeable during extended use or long production runs, especially in poorly ventilated rooms. It is recommended that the room be appropriately ventilated, sufficient to maintain a comfortable working environment, in areas of machine operation.

5.4 Elevation Limitations

Install this machine at an elevation below 13,123' (4,000 m) and at an air pressure less than 607.8 hPa.

5.5 Lighting

We recommend installing the machine in a location with at least 500 lux (29 1/2" (75 cm) above the floor) for normal operation and maintenance.

5.6 Sunlight

Avoid installing the machine in direct sunlight. Direct sunlight has adverse effects on toner consistency and image quality. If direct sunlight is unavoidable, use curtains to shade the machine. Be sure that the curtains do not block the machine's ventilation slots or louvers, or interfere with the electrical cord or power supply.

5.7 Ammonia

Avoid installing the machine where ammonia is emitted. In a sufficient amount, ammonia will attack the surfaces of the machine's paper feed and image quality components, thereby shortening their useful life and increasing the need for periodic and remedial maintenance.

A professional assessment of the air quality in the room in which the machine is to be installed is recommended prior to its installation.