

700-SERIES IOS/SSD SITE PLANNING AND PREPARATION

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Specifications

The 700-series input/output subsystem and SSD solid-state storage device (IOS/SSD) is a dielectric-cooled unit that contains logic modules and power supplies. The SSD portion of this cabinet is optional. All specifications given in this section include the SSD option.

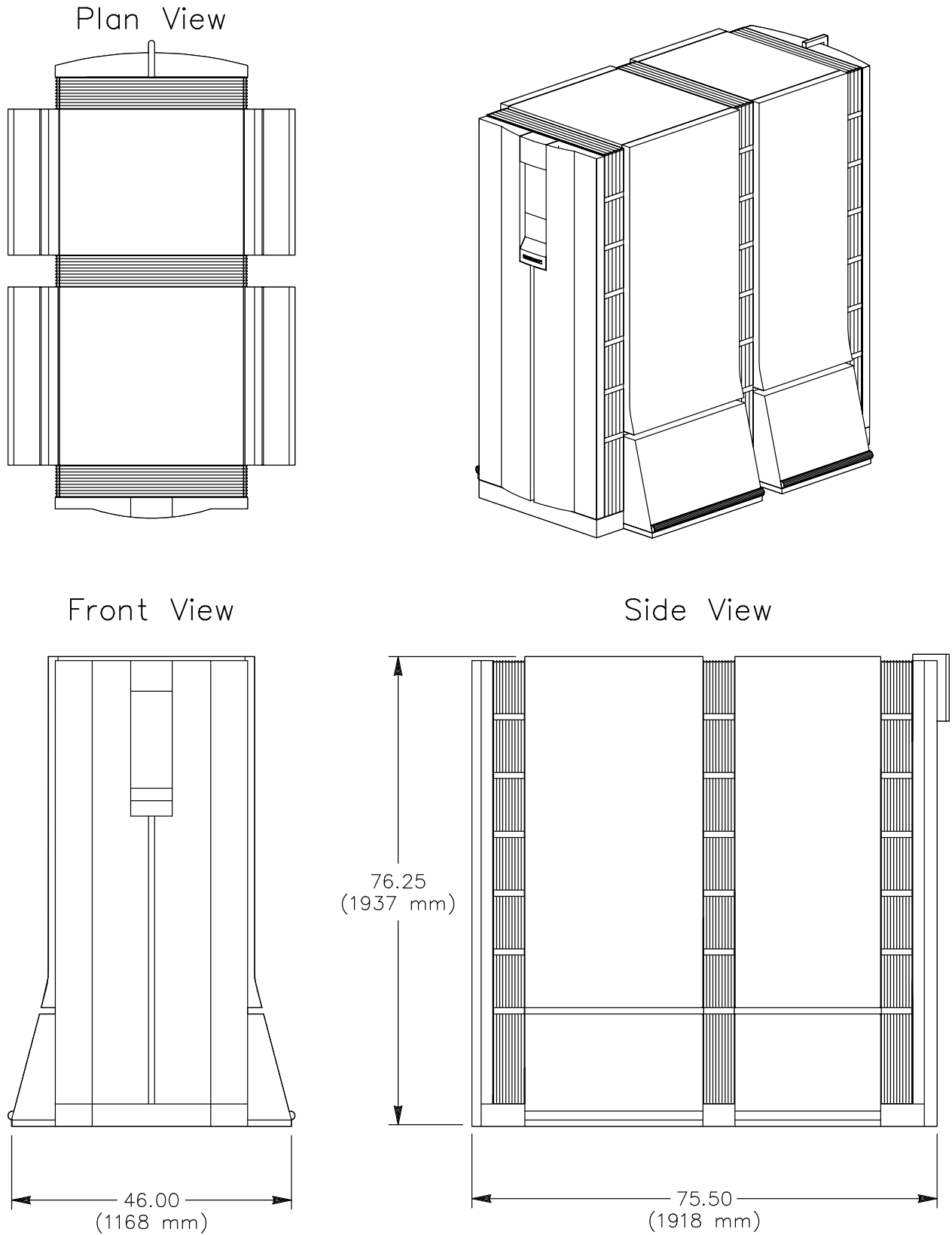
Table 1 provides the specifications for the 700-series IOS/SSD chassis. Refer to Figure 1 for an illustration of the 700-series IOS/SSD chassis.

Table 1. 700-series IOS/SSD Chassis Specifications

Characteristic	Specification
Height	76.25 in. (1,937 mm)
Width	46.00 in. (1,168 mm)
Depth	75.50 in. (1,918 mm)
Weight	7,695 lbs (3,490 kg)
Floor loading	520 lbs/ft ² (2,538 kg/m ²)
Access requirement	36.00 in. (914 mm) on all sides
Cooling requirement	Dielectric coolant
Heat dissipation to air	8.77 kW (2.57 kBtu) maximum †
Input voltage supplied by MGS-4	208 Vac, 3 phase, 400 Hz

† Refer to a machine unit specification (MUS) for the actual power consumption and heat dissipation values for your system configuration. You can obtain an MUS from your site planning representative.

Figure 1. 700-series IOS/SSD Chassis



Shipping Configuration

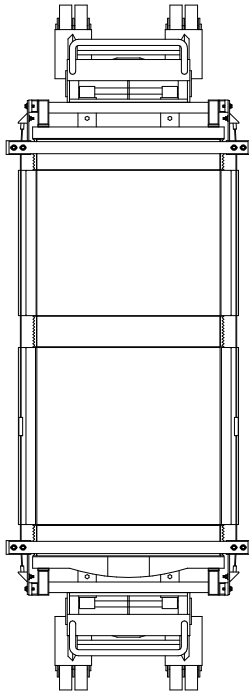
The 700-series IOS/SSD is shipped as a single unit on lifts provided by Cray Research. Table 2 provides the 700-series IOS/SSD shipping configuration specifications. Figure 2 provides an illustration of the 700-series IOS/SSD shipping configuration.

Table 2. 700-series IOS/SSD Shipping Configuration Specifications

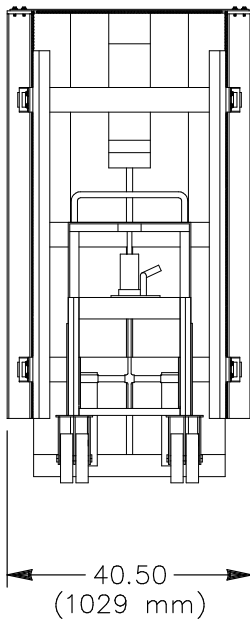
Characteristic	Specification
Height	77.50 in. (1,969 mm)
Width	40.50 in. (1,029 mm)
Depth	111.00 in. (2,819 mm)
Weight	8,228 lbs (3,732 kg)

Figure 2. 700-series IOS/SSD Shipping Configuration

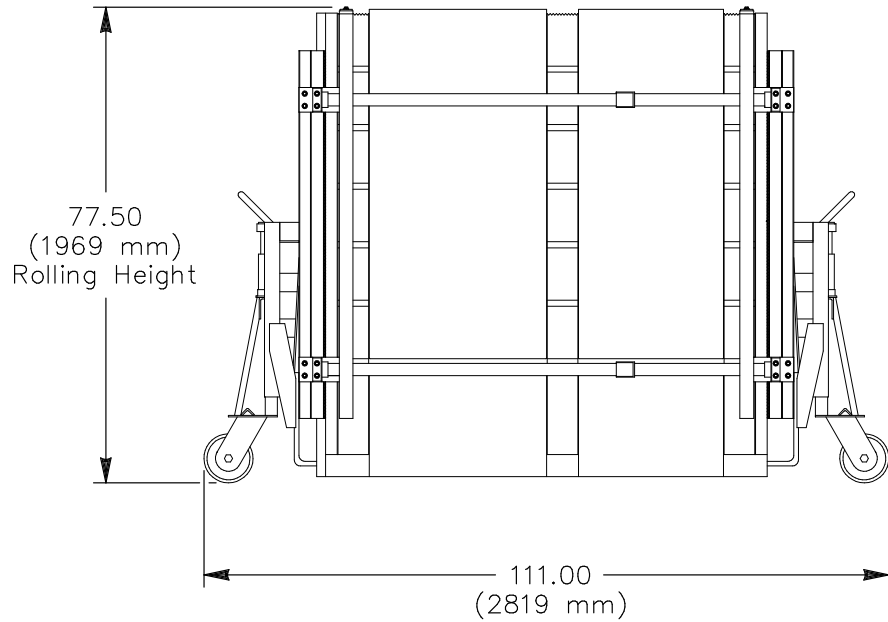
Plan View



Front View



Side View



Floor Preparation

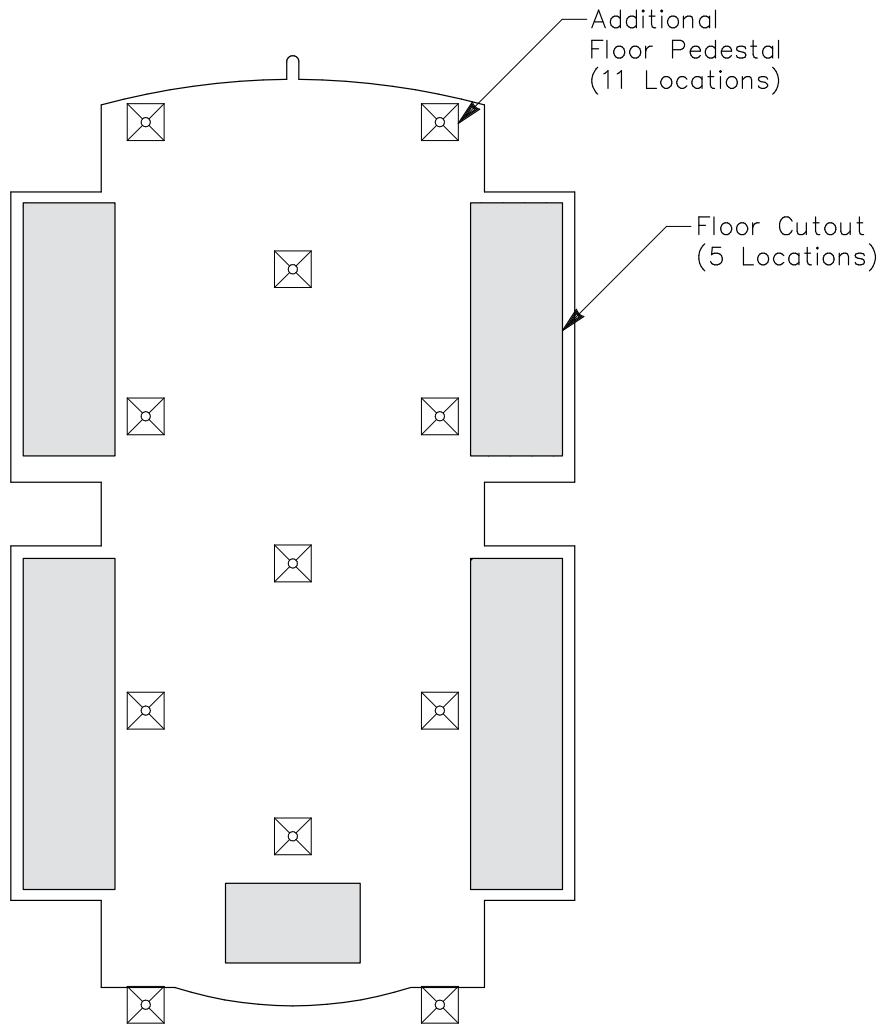
Prior to system delivery, you must prepare the raised floor for the 700-series IOS/SSD chassis installation. Cray Research recommends a minimum floor clearance of 18.00 in. (457 mm) between the subfloor and the underside of the raised-floor panels. Floor plans with raised-floor panels other than these measurements must be reviewed by Cray Research site planning personnel.

You must also prepare the 5 floor cutouts and install the 11 additional floor support pedestals. Floor cutouts provide an opening for data, power, and dielectric-coolant connections. These floor cutouts must be free of sharp edges and burrs to prevent damage to system connections.

NOTE: Cray Research provides full-scale templates used to prepare the 700-series IOS/SSD chassis floor cutouts and to show additional floor support pedestal locations.

Refer to Figure 3 for an illustration of the floor cutouts and additional floor support pedestal locations.

Figure 3. 700-series IOS/SSD Floor Cutouts and Additional Floor Support Pedestal Locations



Power Wiring Requirements

You must provide and install all the power wiring, control wiring, and circuit breakers associated with the 700-series IOS/SSD chassis.

- One 208-Vac, 350-A, 400-Hz circuit from the motor-generator set (MGS-4)
- One 120- or 220-Vac, 15-A control circuit input
- One 6-wire plus ground control circuit to the MGS-4 for motor-generator on/off control
- One 3-wire plus ground control circuit to the MGS-4 for remote voltage sense
- One 2-wire shielded cable (Belden 8720) to the MGS-4 for voltage control