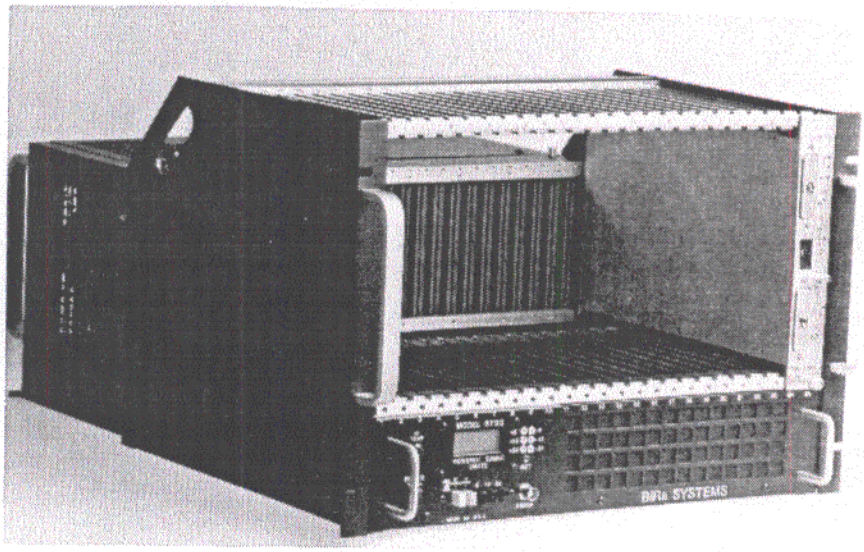
CAMAC-HIGH POWERED-CRATE

NEW

MODEL 6700-SCB
POWER CAMAC CRATE

Main Features:

- 700 Watts total output power
- All voltages, both mandatory and optional (+24, +12, +6, -24, -12, -6)
- Modular power supply with handles, locks automatically into position making insertion and removal safe and easy. No tools required.
- Digital LCD voltage and current metering.
- Blower air-intake filters can be removed in seconds. No tools required.
- Thermal, short circuit and over-voltage protection.
- Ferro-Resonant transformer is utilize to achieve better regulation and stability.



General Description

Bi Ra Model 6700-SCB is a powered CAMAC crate which fully complies with CAMAC specification IEEE-583. This model was designed to meet the users' changing needs and requirements by providing the user a responsive, low cost modular unit. The Model 6700 is made up of three basic components: the crate, the 700 Watt power supply, and the six fan blower.

Crate Description

The crate incorporates the CAMAC dataway with an 86-contact PC edge connector soldered at each station. The crate supports the rear mounted power supply module and houses the removable blower unit. The crate assembly is constructed of reinforced steel and designed for convenience and serviceability. Both the blower unit and power supply can be detached without removing the crate from the rack. Electroless nickel-plated guide rails insure smooth alignment and minimize air obstruction for cooling of the modules.

Power Supply Description

The Model 6700 Power Supply employs the Ferro-Resonant transformer and Darlington transistors to achieve higher efficiency and reliability. The power supply is modular in construction, single connector attachment, and automatically latches into position. The power supply is self-ventilated by a large internal blower (rated at 210 CFM) to maximize cooling area and air flow in order to enhance performance and reliability. The power supply outputs are protected from over-voltage and over-current. Additional features include handles for maneuverability and safety, also instant visibility and easy access to all fuses.

Blower Description

The front-removable six fan blower unit features low-vibration, low-noise, and venturi-type ball-bearing fans to provide good air flow and maximum module ventilation. The blower unit and crate side panels were concurrently designed to insure maxium air-intake.This design allows the user the versatility to use the powered crate as a bench top or rackmounting it. The three large air intake ports house the dust filters which can be removed in seconds without any tools. Front panel indicators include over-temperature warning, a switch-selected digital meter for monitoring all voltages and currents, and voltage test points.

Bi Ra Model 6700-SCB

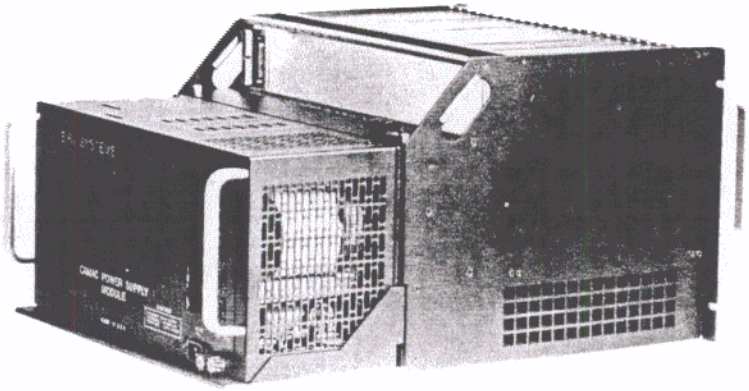
Crate Specifications

Dimensions: 19" rackmount, 12.25" height, 21.75" depth.

Voltage Meter: Digital meter provides monitoring of all output currents and voltages.

Cooling: Six high capacity fans.

Weight: 39 lb. (17.7 kg)



Power Specifications

Total Power: 700W maximum +/-6V,+/-12V, +/-24V combined

Maximum output currents from:

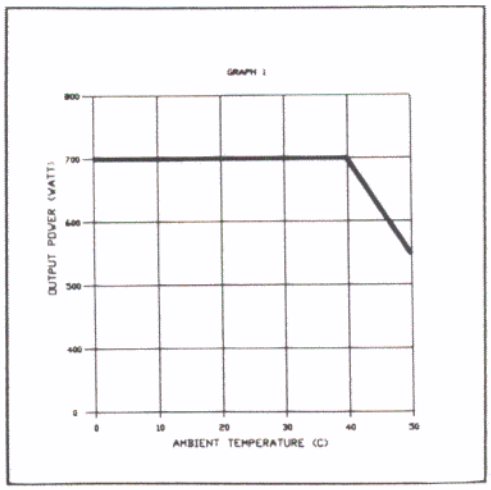
+/- 6V: Up to 60 Amps from either supply.90 Amps combined sum. See Graph 2.

+/- 24V: 8 Amps maximum each. Subtract current drawn by +/- 12 V load.

+/- 12V: 4 Amps maximum each. Derived from +/- 24 V supply.

Note: 1) All models provide current foldback limiting and over voltage crowbar protection for all output voltages.

2) On all models the +/-12V is derived from +/- 24V sources.



Performance

Ripple: <15 mV peak-to-peak (50MHz bandwidth).

Regulation: +/- 0.01 % line or load (at the sense leads).

Temperature Coefficient: < 0.1 %/degC.

Long Term Stability: < 0.1 %/24 hours at constant load and temperature. Measured after 1-hour warmup.

Tracking: During turn-on all six output voltages rise together. Risetime 10 msec.

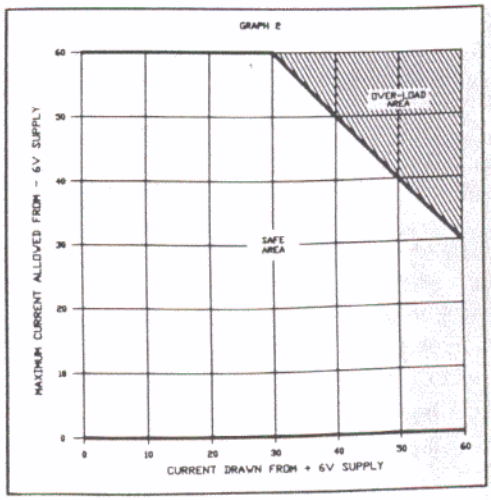
General

Overload Protection: All outputs are protected against overload by current limit circuits. Short circuit proof. All outputs switch off within 20 msec of detected overload.

Overvoltage Protection: All outputs are protected against transient overvoltages by high current transient suppressors.

Thermal Protection: A thermal sensor shuts down the supply in the event of a thermal overload. A front-panel thermal overload light on the blower module indicates an overtemperature condition in the power supply.

Operating Range: Full 700 W output from 0 degC to 40 degC ambient temperature. Derate at -15 W/degC above 40 degC. Maximum ambient temperature 50 degC. See graph 1.



Input Voltage: 120V AC 60Hz (103 - 130V AC).

Line Current: 14.2 Amps rms at 120 V.

Weight: 52 lb. (23.6 kg).

Options:

1)NIM holes - Jacking screw holes for NIM modules in both upper and lower guide grills.

2)Status monitor bit

3)7000R-S rackmount power supply, 4ft cable, 640 Watts

4)MODEL 6750-SCB is 6700 Package except input voltage is 220 VAC/ 50Hz,700Watts

5)MODEL 6700-A-SCB 60A shared current in 6700 Package, 580 Watts