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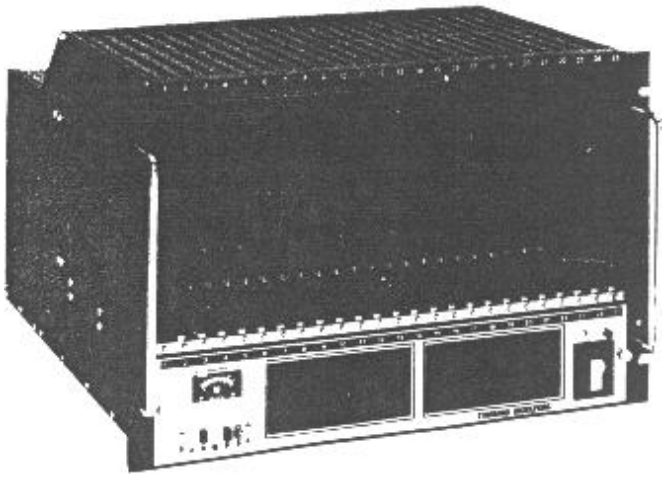
OPTIMA 860 POWERED CAMAC CRATE



Power Features:

+/-6V 60 Amps shared current
(to 50 A max on either + 6V or -6V)
+/-24V 9 Amps shared current
(to a 6A max on either + 24V or -24V)
+/-12V to 3 Amps on either + 12V
or -12V (current shared with +/-24V)
550 Watts total output power

General Features:

- Reinforced steel crate construction with cast aluminum, non-galling, electroless nickel-plated module guide rails for long and rugged life.
- Modular power supply has demonstrated superior reliability and performance by 21,000 hour mean-time-between-failure in field experience.
- Integral support shelf and quick release mechanism allows no-tool, single-handed power supply removal.
- Slide-out three-fan blower tray for module ventilation features low-noise, venturi-type, ball- bearing fans (over 400 CFM rating) combined with large air intake openings, provides unmatched standard cooling capacity for enhanced module performance and maximum life.
- Convenient front panel metering and test jacks for output voltages and currents.
Provides thorough protection on all circuits and outputs:
  * Overvoltage Protection
  * Overcurrent Protection
  * Thermal Protection

Exceeds all CAMAC (IEEE 583-1982) and ESONE report, EUR 4100e, Type CP-1 power supply requirements for:
  * Regulation
  * Ripple and Noise
  * Long-Term Stability

Description:

The Optima 8 60 CAMAC (I EEE-583, Computer Automated Measurement and Control) powered crate is an assembly made up of three basic units: the crate, the power supply, and the blower drawer.
The blower section and power supply can be removed without disturbing or removing the crate

from the rack, or dismantling cabling from the modules.

The crate houses the removable blower tray, supports the power supply, and incorporates the Dataway bus. The crate assembly is constructed of reinforced steel and precision-cast aluminum upper and lower guides for long, rugged, trouble-free use. Precision-cast and machined, full-depth, self-centering module insertion guide rails insure smooth insertion, removal, and the proper alignment of CAMAC modules with their Dataway connectors. Only the highest quality components go into the modular construction of SEC's power supplies. Rigorous quality assurance procedures and standards are followed throughout the manufacturing process including a 48-hour burn-in and final test under load conditions. The power supply has a 21,000 hour MTBF (mean-time-between-failure) in field performance. Additional features include "at-a-glance" fuse visibility and a separate cooling system. Further, the power supply's modular construction assures ease of maintenance and minimum downtime should repair become necessary. All outputs of the power supply are protected from overvoltage and overcurrent.No damage to the power supply results if there is a continuous short-circuit. A thermal warning and a thermal cutoff switch protect the power supply whenever the internal temperature exceeds a safe limit.
The slide-out fan tray features three low-vibration, low noise, venturi-type ball-bearing fans rated at 134 CFM each.

* Large air-intake opening
* High-adhesion dust filters easily removable without tools
* Front metering and test jacks for voltage and current
* Crate power switch

TECHNICAL SPECIFICATIONS:

Mechanical:
Width: 19.0 in. (rack mount)
Height: 12.3 in.
Depth: 21.6 in. behind front panel (22.4 in. overall)
Weight: 88 lb.
(shipping weight: 101 lb.)

Electrical:
Input: 115V + 10%/ -12% Vac,
50 - 60 Hz nominal (standard)
Output voltage and current:
+/-6V at OA to 50A,
current shared to 60A
+/-24V at OA to 6A,
current shared to 9A
+/- 12V at OA to 3A,
current shared to 24V output
Output Power: 550W at 25'C
derated to 500W at 50'C
NOTE:
OUTPUT POWER is the sum of two groups of output voltages multiplied by their respective load currents. The sum of the two groups must not exceed 550W at 25'C. and must be derated to 500W at 50'C.
GROUP 1 OUTPUTS: + 6V, + 24V, and +/-12V combined output power must not exceed 400W at 25'C. The +/-12V output currents are considered + 24V outputs for power calculations.
GROUP 2 OUTPUTS: - 6V and - 24V combined output power must not exceed 400W at 25'C and 375W at 50'C.

Overvoltage Protection:
All output voltages are protected by silicon control rectifiers (SCR) that can be activated by ac line transients, large load-current changes, or internal circuit failure.
Overcurrent Short Circuit Protection:
The outputs of the power supply are protected against over-current and short circuits by fold-back type current-limiting circuits which cause the output current to be reduced to a low, safe value.
Thermal Protection:
Two thermal switches are mounted on each of the two heat sinks. One thermal switch on each heat sink disconnects the main power; one turns on the overload indicator on the front panel of the blower.
Metering: +/-6V and +/-24V and current
Test Jacks: All output voltages
Line and Load Regulation:
+/-0.2% for +/-6V and +/-24V outputs
2.0% for +/-12V output

Ripple and Noise :peak to peak, 50MHz bandwidth, 50mV on +/- 12V outputs
Transient Recovery: 50 microseconds, typical
Long-term Stability: Less than

0.2% for 24 hr. after 1 hr. warm-
up (constant ambient tempera-
t u re)
Temperature Coefficient:
0.02%/'C maximum

Operating Temperature: OOC to
50'C (32'F to 122'F) at less
than 90% relative humidity

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http://www-esd.fnal.gov/esd/catalog/main/dsp/860-spec.htm

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