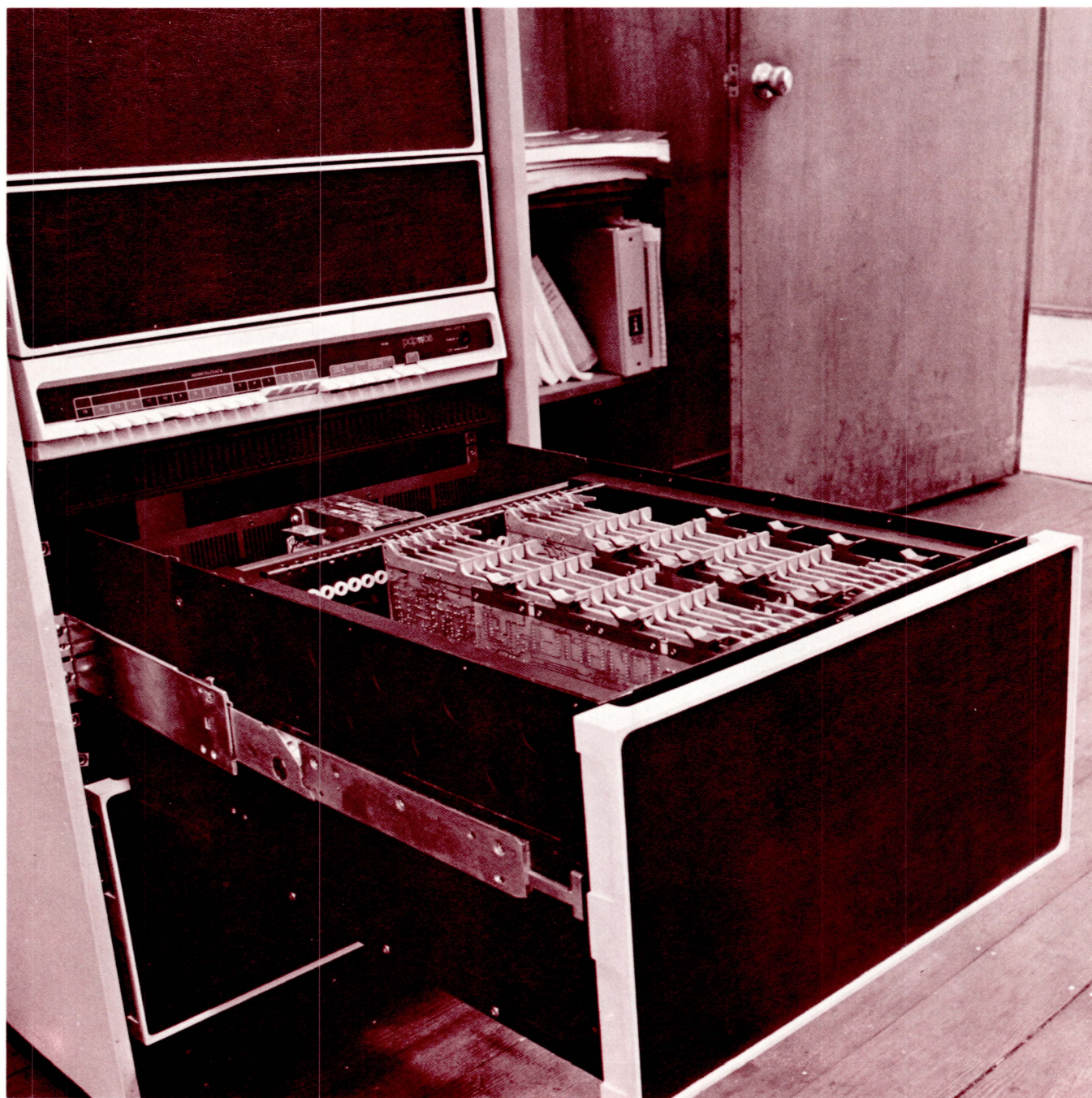




APRIL 1975

## BA11-K Expansion Mounting Box



## DESCRIPTION

The BA11-KE/KF is a general purpose PDP-11 expansion mounting box (10½" x 17" x 25") and mounts in standard DIGITAL cabinets. It includes the H765 power system for either 115V or 230V operation and it supplies multiple voltages which deliver 660 watts of DC power. The expansion mounting box also includes mounting hardware, UNIBUS cable and a pop panel. The BA11-K has been approved by the Underwriter Laboratories (UL approved).

## FEATURES

The design of this expansion box, coupled with the H765 power system, provides significant improvements in the area of configuration flexibility for users of PDP-11 systems.

- Accommodates any mix of DIGITAL modules, including both quad and hex modules.
- Accommodates 8K and 16K-type core memory systems (MM11-L and MM11-U).
- Provides space for up to five system units/22 module slots.
- Offers complete commonality, including power system, with a PDP-11/05-S, 11/10-S, and 11/35-S, thereby minimizing spare parts stocking for users of these systems.

## Physical Characteristics

Chassis Size: 10.5 x 17 x 26.5 inches

Weight (unloaded/loaded):

90/115 lbs

Rack Slides (3-position):

horizontal, 45° & 90°

Configuration Expansion:

5 SU or 22 module slots (2 double SU and 1 single SU)

## Environmental Characteristics

Air Inlet Temp: 41°F–122°F  
(5°C–50°C)

Cooling Efficiency: temperature rise no greater than 18°F (10°C) from inlet air to exhausted air

Operating Humidity: 10-95% (no condensation)

Air Flow Direction: horizontally towards rear of box; air is drawn through filtered front pop panel and from within rack

Multiple Voltages:

(2) H744 regulators	+5V @ 25 amps (each)
(1) H745 regulator	-15V @ 10 amps
(1) H754 regulator	+20V @ 8 amps
	- 5V @ 1-8 amps*
(1) 54-11086 regulator	+15V @ 4 amps

\*Maximum -5V current is dependent upon +20V current. It is equal to 1 A plus the current of the +20V supply, up to a total of 8 A.

## BA11-K Input Power Specifications

Voltage: 90-132 (180-264) Vac, 47-63 Hz, single phase  
115 (230) Vac nominal

sustained operation: 104-132 (208-264) Vac

Power: 1200 W maximum at 115/230 Vac nominal line (1380 VA)

Current: 12/6 amp AC maximum at 115/230 Vac nominal line

Power

Factor: greater than .85

## Conducted Noise Transients (noise on AC line)

- single transient without loss of data 300V at 0.2W sec. maximum
- single transient survival 1000V at 2.5W sec. maximum
- average transient power survival 0.5W maximum

CW

Noise: 10 KHz - 3 MHz = 3V rms max.

3 MHz - 500 MHz = 1V rms max.

500 MHz - 1000 MHz = 0.5V rms max.

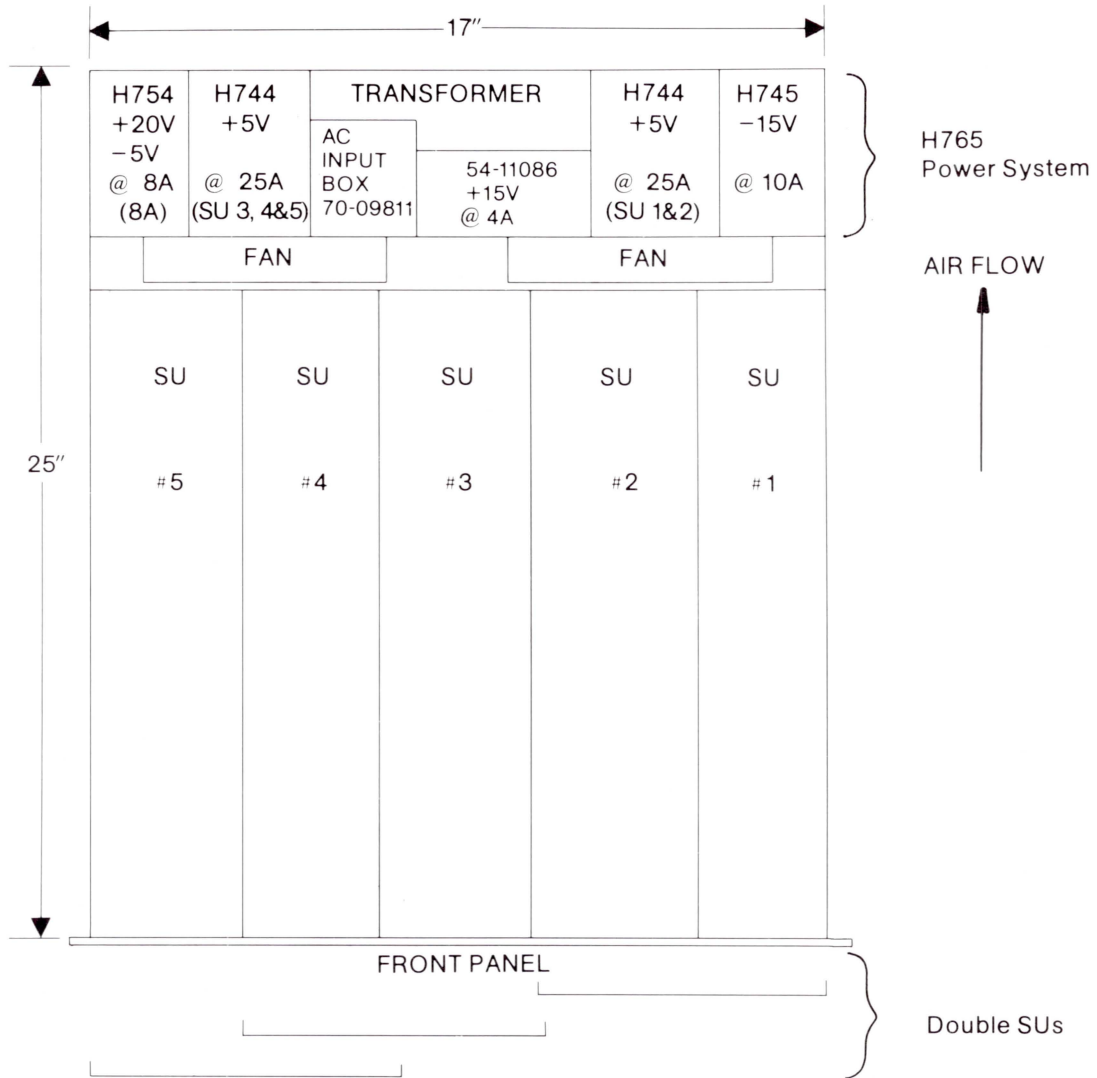
## RF Field Susceptibility

10 KHz - 1000 MHz = 1 V/M (power supply and contents) max.

## Power Fail

The H765 Power System is capable of withstanding under voltage disturbances and interruptions without physical damage.

**BA11-K-TOP VIEW**



**Notes**

1. The BA11-K can accommodate all combinations of DIGITAL modules except old-style 4K core memory (MM11-E and MM11-F).
2. Double-system units can be mounted in any two slots except two and three.
3. The two H744 regulators are individually dedicated and their outputs cannot be paralleled. Regulator # 1 provides power to SU 1 & 2. Regulator # 2 provides power to SU 3, 4 & 5.
4. To convert from 115V to 230V (and vice versa): swap the AC input box:  
 part number 70-09811-1 (115 Vac)  
 part number 70-09811-2 (230 Vac)
5. There are different option power harnesses required for this and other boxes. When ordering options, be sure to identify the mechanical package.

### BA11-K Unique Power Harnesses

CPU Type Option	11/35 -S, 11/05-S BA11-KE/F 10½ in. Box
AA11-DA	70-9562
AA11-DB	70-9562
DA11-F	70-10117
DB11-A	70-9562
DC11-A	70-9562
DD11-A	70-9562
DD11-B	70-10117
DH11-AA	70-10118
DH11-AB	70-10118
DH11-AC	70-10118
DJ11-AA	70-10117
DJ11-AB	70-10117
DJ11-AC	70-10117
DN11-AA	70-9562
DP11-DA	70-9562
DR11-B	70-9562
MF11-L	70-10114
MF11-LP	70-10114
MF11-U	70-10115
MF11-UP	70-10115
MM11-S	70-9562
RH11	70-9570
RH11-AB	70-10117
RK11-D	70-10116
VT11	70-10117
CD11-A/B, E	70-10117
DQ11	70-10117



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