

74-VDC TO 120-VAC INVERTER

OPERATE LAPTOPS AND SMALL AC LOADS FROM 74-V BATTERY SYSTEMS



Model 1715-74-120-60

- 75 VA OUTPUT (CONTINUOUS) WITH SURGE CAPABILITY
- CRYSTAL-FREQUENCY-STABLE, REGULATED, ISOLATED OUTPUT
- -30°C to +50°C OPERATING TEMPERATURE RANGE
- COMPACT, RUGGED AND RELIABLE

Designed as a rugged, portable, cost-effective inverter for lower power applications, the Model 1715-74 provides 75 volt-amperes in a portable, compact enclosure. This inverter supplies a regulated, 120-Vac, crystal-frequency-stable quasi-sine wave output from a nominal 74-Vdc battery source. Field proven input transient protection ensures confident operation in "harsh" battery environments. Designed for operation in a -30°C to +50°C ambient, only simple convection cooling is required. The 1715-74's conservative design makes it particularly well-suited for powering sensitive electronic loads such as laptop computers, telecommunications and data processing equipment.

SPECIFICATIONS

Input Voltage Range

50 Vdc to 90Vdc

Output Voltage

118Vac nominal¹, single phase, three-level stepped approximation to a sine wave, with peak, average, and rms values approximating those of a sine wave.

Volt-Ampere Rating

75 VA

Frequency

60 Hz nominal. ±0.01 Hz maximum variation over the full range of load and input voltage changes. (50 Hz version also available)

Isolation/Transient Protection

Isolation capable of passing a 2000-Vdc stress test is provided mutually between the input, output and chassis. The inverter will not be damaged when its input is subjected to high-energy transients as specified in IEC 1000-4-5, Surge Immunity Test, Level 3, applied line-to-line or line-to-chassis.

Temperature Range

Operating: -30°C to +50°C
(Convection Cooling)

Protection

A combination circuit breaker and ON/OFF switch is provided in series with the dc input to protect against sustained output overloads and against accidental reversal of dc input polarity during installation.

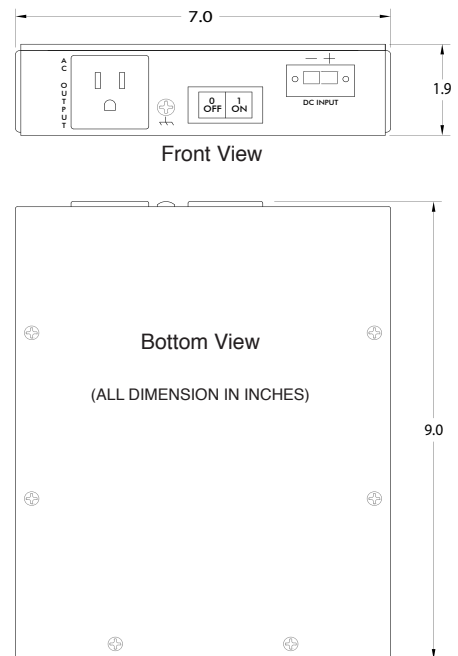
Mechanical

Figure 1. provides overall dimensions. When inserted, the mating input plug (not shown) extends 0.8" (20.5mm) from the front panel. Weight is 3.0 pounds (1.4 Kg) A chassis ground connection is provided with #8 hardware

For Additional Information

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Fig.1 Model 1715-74 Overall Dimensions



¹As measured with a conventional average-responding, rms-calibrated voltmeter

Information provided in this bulletin is subject to change without notice.