

Model 1740-74-14-30 DC-DC CONVERTERS

Bulletin No. #76A0030

74-VOLT TO 14.2-VOLT DC-DC CONVERTER

Model 1740-74-14-30

- FOR LOCOMOTIVE/RAIL-TRANSIT APPLICATIONS
- REGULATED AND FILTERED 14.2VDC
- 400-WATT OUTPUT POWER RATING
- INPUT SURGE/TRANSIENT PROTECTION
- INPUT-TO-OUTPUT ISOLATION
- MECHANICALLY RUGGED AND CONSERVATIVELY RATED
- -40 C TO +70 C OPERATING TEMPERATURE RANGE (CONVECTION COOLED)



SPECIFICATIONS

INPUT VOLTAGE RANGE	74VDC Nominal; 40-90Vdc normally; The converter will operate through brief abnormal input-voltage excursions down to 20 Vdc (operation at less than 40 Vdc is limited to 4 seconds maximum in any 2-minute period).
OUTPUT VOLTAGE (VDC)	14.2Vdc Nominal
OUTPUT CURRENT (ADC)	30 amperes maximum load current
OUTPUT VOLTAGE REGULATION	Better than ±5% with line and load variations
ISOLATION	Isolation capable of passing a 1,500-Vdc stress test is provided between the input and output and between the input and chassis. Isolation capable of passing a 500-Vdc stress test is provided between the output and chassis.
PROTECTION	Protection against overloads, short circuits and converter-induced output overvoltages is provided electronically. Recovery to normal operating conditions is automatic upon removal of an overload or short circuit fault. Following an overvoltage shutdown, input power to the converter must be removed and reapplied to resume converter operation. A reverse-polarity protection diode is provided at the input to the converter to work in conjunction with a user-supplied fuse or circuit breaker to protect the converter should a reverse
AMBIENT TEMPERATURE RANGE	Operating: -40°C to +70°C (-40°F to +158°F) Convection Cooling Storage: -40°C to +95°C (-40°F to +203°F).
INPUT/OUTPUT CONNECTIONS	Provided via heavy-duty barrier strip terminal blocks using 1/4-inch threaded studs. Connections are protected by a removable cover.
FRONT-PANEL INDICATORS	Providedfor INPUT PRESENT (green), OUTPUT PRESENT (green), DISABLED-LOW INPUT (amber) and OUTPUT FAULT (red).
MECHANICAL	Enclosure is painted aluminum (black) and is constructed with welded seams and gasketed assembly interfaces. Internal printed circuit boards are conformally coated.
SIZE	4 Modular Concept Units (MCU's) as defined in Association of American Railroads Standard S-590.
WEIGHT LBS (KG)	12 (5.44)

Products

For information about other Wilmore dc-to-dc converters or for information about other power-conditioning products such as dc-to-ac inverters, switching power supplies, and custom power solutions, please contact our sales department.