

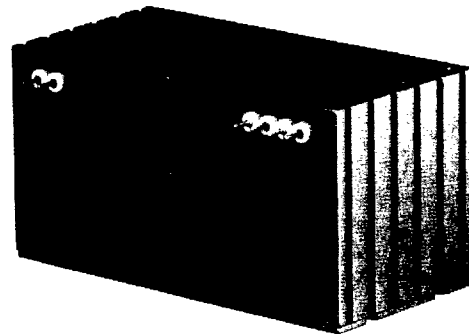
140ALDC22

300 Watt

1 ϕ AC-DC Converter

Features:

- Single Phase 47-440 Hz Input
- High Power — 300 Watt Output
- Inrush Current Limited
- Accepts Positive Transients Equivalent to MIL-STD-704A/B.



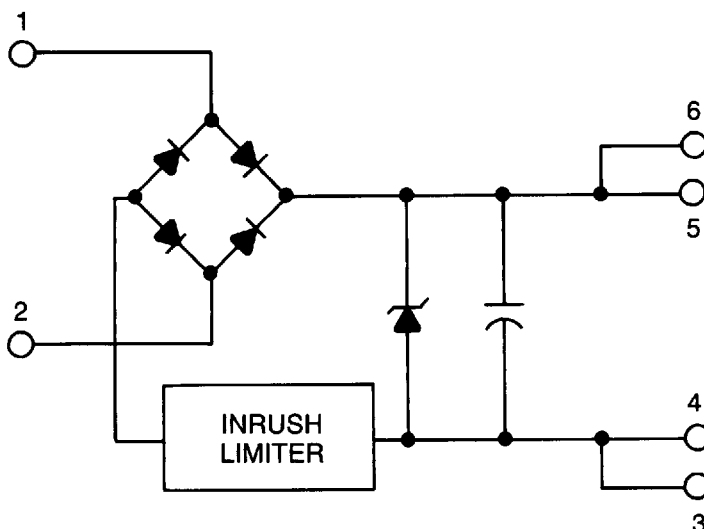
ALDC Series

300 Watt 1 ϕ AC-DC Converter

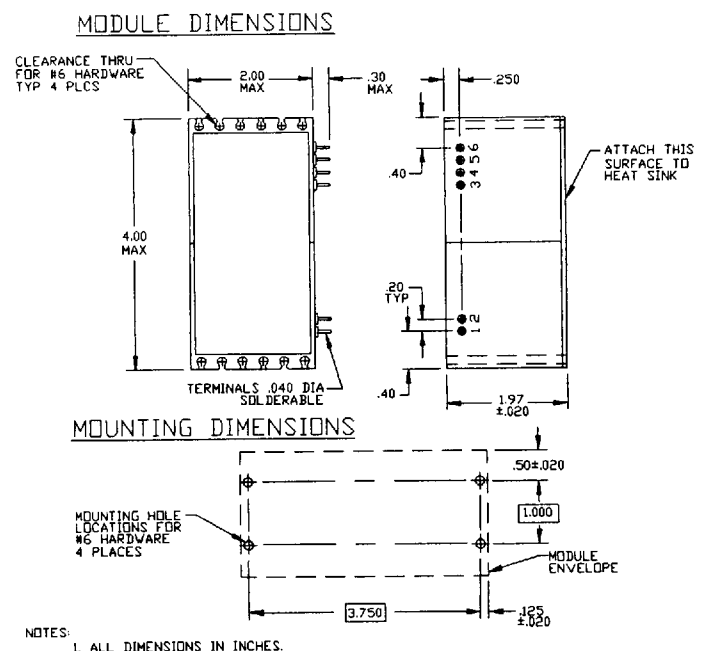
The ALDC Series Circuitblock® module is an AC-DC converter that accepts a single phase input and converts it to a 120-185VDC* non-isolated, filtered DC output. This output is suitable as an input directly to the Icecube™ (CME) product line of DC — DC converters and, with the use of an additional filter module, may be used with the standard voltage-compatible pre-regulator and generator modules to power TR(C) output modules.

The module measures 2" x 4" x 1.97" and weighs approximately 18 ounces. The ALDC offers excellent economies in converting standard single phase power to non-isolated, inrush limited DC with conversion efficiencies of 95% or better at rated load and nominal input.

Simplified Electrical Schematic



Representative Mechanical Outline

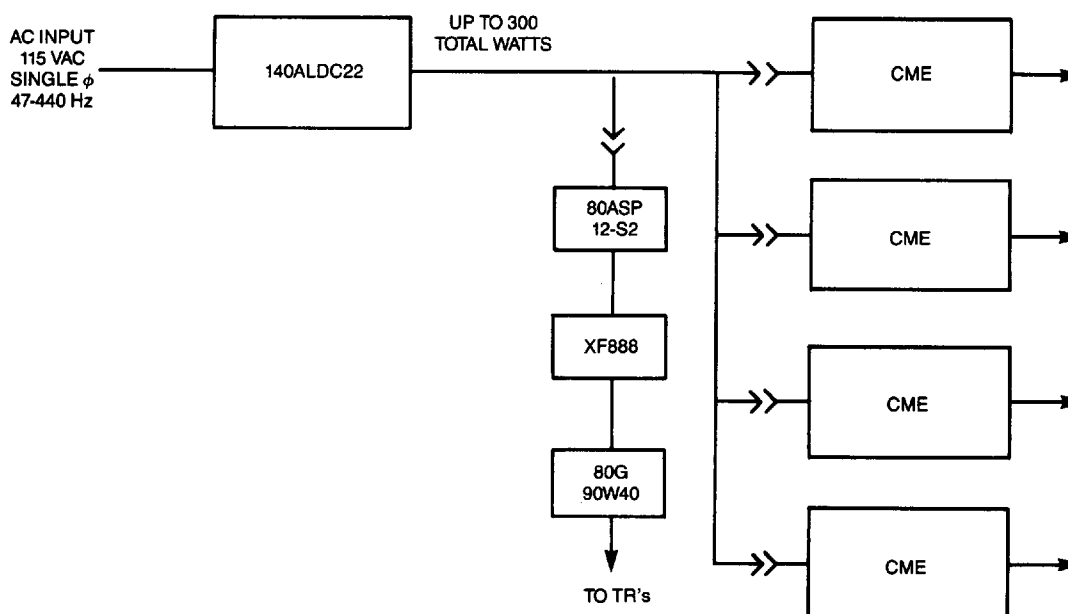


* The maximum output voltage drops to 175 VDC when pre-loading a POWERCUBE CME series module(s) at no load.

SPECIFICATIONS 140ALDC22

Input Voltage:	95 to 132 VAC. Nominal input is 115 VAC, single phase, 47-440 Hz
Input Current (AC) at V_{IN} Nom. & rated load:	3.0 A rms (Max.)
Input Current (AC) at V_{IN} Nom. & no load:	20mA rms (Max.)
Output Voltage:	120-185* VDC (155 VDC Nom.)
Rated Load:	1.9 Amps DC
Inrush Current:	20 Amps peak (theoretical 40 A peak with zero source impedance)
Efficiency:	Typically 95%
Operating Temperature:	-55°C to -100°C (Case)
Storage Temperature:	-65°C to +125°C
Weight:	19 oz. (Max.)
Finish:	Anodized per MIL-A-8625-II, Class 2
Terminals:	0.040" diameter solderable per MIL-T-10727
Isolation:	(all terminals to case) 500 VDC allowing 5 μ A leakage Max.

Typical Application



Note: Refer to Icecube™ catalog for information regarding CME modules shown.

* The maximum output voltage drops to 175 VDC when pre-loading a POWERCUBE CME series module(s) at no load.