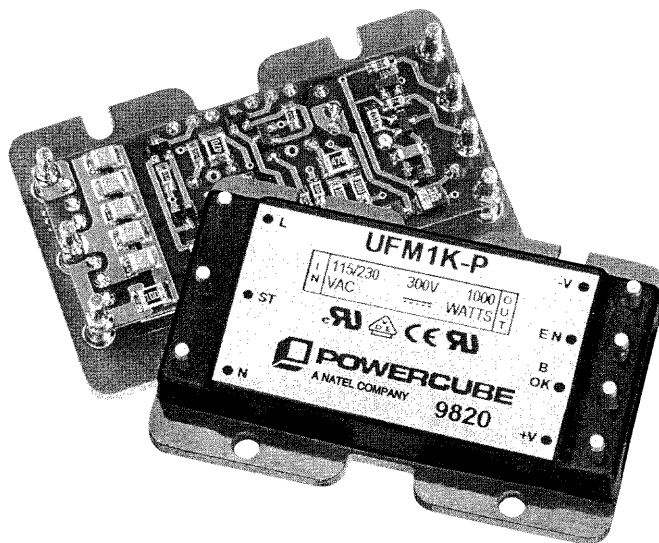


UFM500 UFM1K

Universal Front-end Module 500/750 Watts & 1000/1500 Watts AC-to-DC Converters

Key Features

- **Auto Ranging**
(No Manual Strapping)
- **Universal Input**
(90 to 265 VAC)
- **Internal Inrush Limiting**
- **Bus OK Signal, Module Enable**
- **97% Efficiency**
- **100°C Operating Temperature**
- **UL (USA, Canada), VDE, CE Marked**



Description

Available in a very small size (1.45"x2.28"x0.5"), UFM500 and UFM1K autoranging Universal Front-end Module can provide 500W and 1000W output, respectively, for an input of 90 to 132VAC. For 180 to 265 VAC input, the output power increases to 750W and 1500W, respectively. The output of the **UFM** can interface with most industry standard 300V input DC-to-DC converters.

Both models UFM500 and UFM1K are available in option "P" and option "V," depending on which DC-to-DC converter is being used. The Ordering Information shows how to select the appropriate option.

The UFM module contains the complete front-end of an off-line switching power supply. The only external components needed are a filter, an input fuse, transient protection and appropriate hold-up capacitors.

For application information ask for POWER ■ PAGE PP46.

Summary Typical Characteristics

Parameter	UFM500	UFM1K
AC Line Input Voltage	90 VAC to 265 VAC	same
Input Frequency	47 Hz to 440 Hz	same
Output Voltage	300 VDC (200 – 400VDC)	same
Output Power		
90 – 132 VAC Input	500 Watts	1000 Watts
180 – 265 VAC Input	750 Watts	1500 Watts
Efficiency	97%	same
Inrush Current		
132 VAC Input	<17A	<30A
265 VAC Input	<34A	<60A
Power Factor	0.65	same
Operating Temperature	-55° to +100°C	same
Input to Output Isolation	None	same
Input/Output to Baseplate	2500 V _{RMS}	same
Weight	2.0 oz. (54 gms)	same

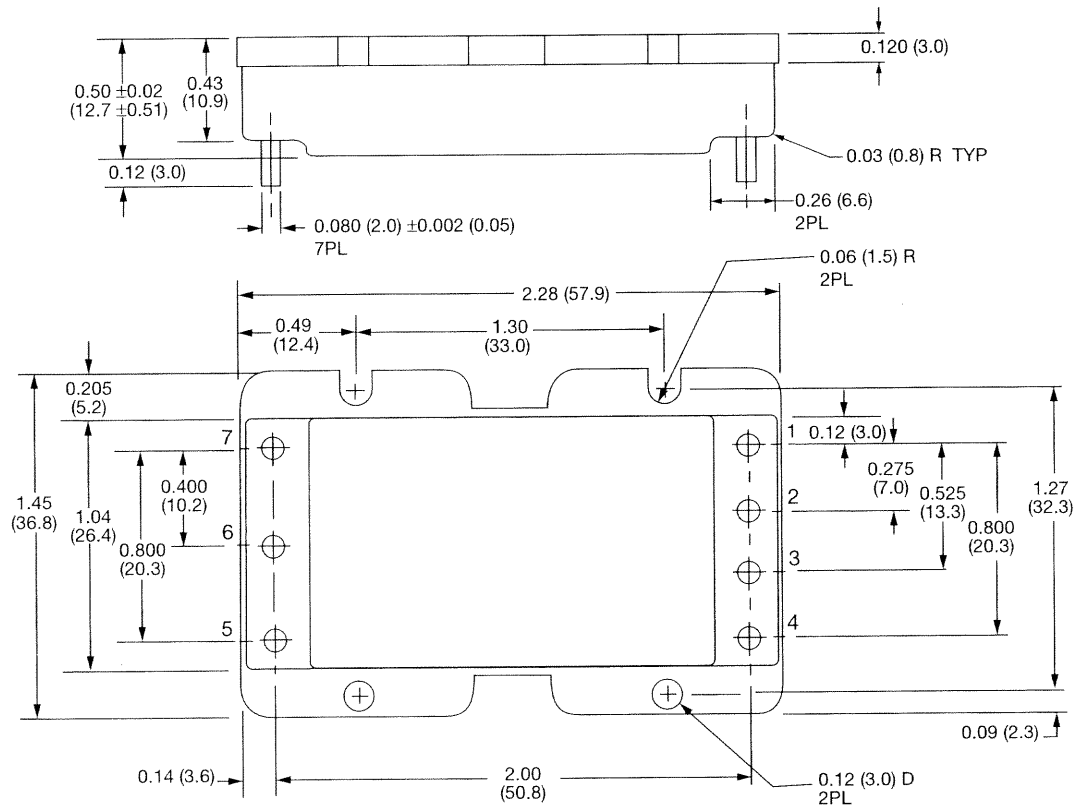


POWERCUBE
A NATEL COMPANY

TEL: 1-800-866-3590 • FAX: 1-800-866-3589

9340 OWENSMOUTH AVENUE • CHATSWORTH • CALIFORNIA 91311

UFM500/UFM1K



(VIEW OF PIN SIDE)

MECHANICAL OUTLINE

NOTES

1. DIMENSIONS SHOWN IN INCHES AND (MM)
2. TOLERANCE ± 0.01 (±0.25) UNLESS OTHERWISE SPECIFIED.

Ordering Information

UFM W — C

Output Power

500 = 500 Watts

1K = 1000 Watts

Compatible DC-to-DC Converter

P = when interfacing with Powercube models

PD300 and PD150 with "P" option

V = when interfacing with all other Powercube DC-to-DC converters as well as all industry standard DC-to-DC converters



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