



Astrodyne Corporation Tel: (508) 964-6300  
 35 Hampden Road Fax: (508) 339-0375  
 Mansfield, MA 02048 sales@astrodyne.com

DATASHEET

## uV24-164 MICROVERTER® DC/DC Converter

24 VDC Input  
 200~300 Watts  
 3/4 Brick

The MICROVERTER® uV24-164 DC/DC Converter Module combines high efficiency electrical power design and advanced thermal management techniques including insulated metal substrate technology and thermally conductive potting to produce a small, ruggedized DC/DC converter with reduced temperature rise and increased reliability. Operating over the entire 20-32VDC input range, the MICROVERTER® uV24-164 series is ideal for use in rugged and high reliability applications requiring baseplate cooled operation such as military systems, RF / power amplifiers, semiconductor manufacturing and industrial control. This series is designed for 5/6 RoHS compliance



### OPERATIONAL FEATURES

- 5/6 RoHS Compliant Designs
- Encapsulated & Environmentally Rugged Package
- Extremely Low Thermal Resistance
- -40 ~ 100°C Baseplate Operation
- Constant Frequency Operation for Reduced Noise
- Remote On/Off, Parallel and Remote Sense Functions
- Auto-Recovery from OTP / OCP / OVP Circuits
- Trimable Output Voltages
- Synchronizable from 330-400kHz (Optional)
- 2 Year Warranty

### TYPICAL APPLICATIONS

- Commercial / Industrial / Military Systems
- RF / Power Amplifiers
- Cell Base Stations
- Semiconductor Manufacturing & Test Equipment
- Industrial Control

### MODEL SELECTION (20-30VDC Input)

| Model Number | Output Voltage    | Output Current |
|--------------|-------------------|----------------|
| uV24-4-164   | 4 (3.3-4.0VDC)    | 50A            |
| uV24-5-164   | 5 (4.0-5.5VDC)    | 50A            |
| uV24-12-164  | 12 (10.8-13.2VDC) | 25A            |
| uV24-15-164  | 15 (13.5-16.5VDC) | 20A            |
| uV24-24-164  | 24 (21.6-26.4VDC) | 12.5A          |
| uV24-28-164  | 28 (25.2-30.8VDC) | 10A            |

add S to part number to designate SYNC option.  
 eg: uV24- 4 S- 164



RoHS  
 Compliant

5/6 RoHS compliant for NIE exemption  
 6/6 (LeadFreeVersion) model coming soon

[www.astrodyne.com](http://www.astrodyne.com)  
[www.roassoc.com](http://www.roassoc.com)

Astrodyne USA: 1-800-823-8082  
 Astrodyne Pacific: 886-2-26983458