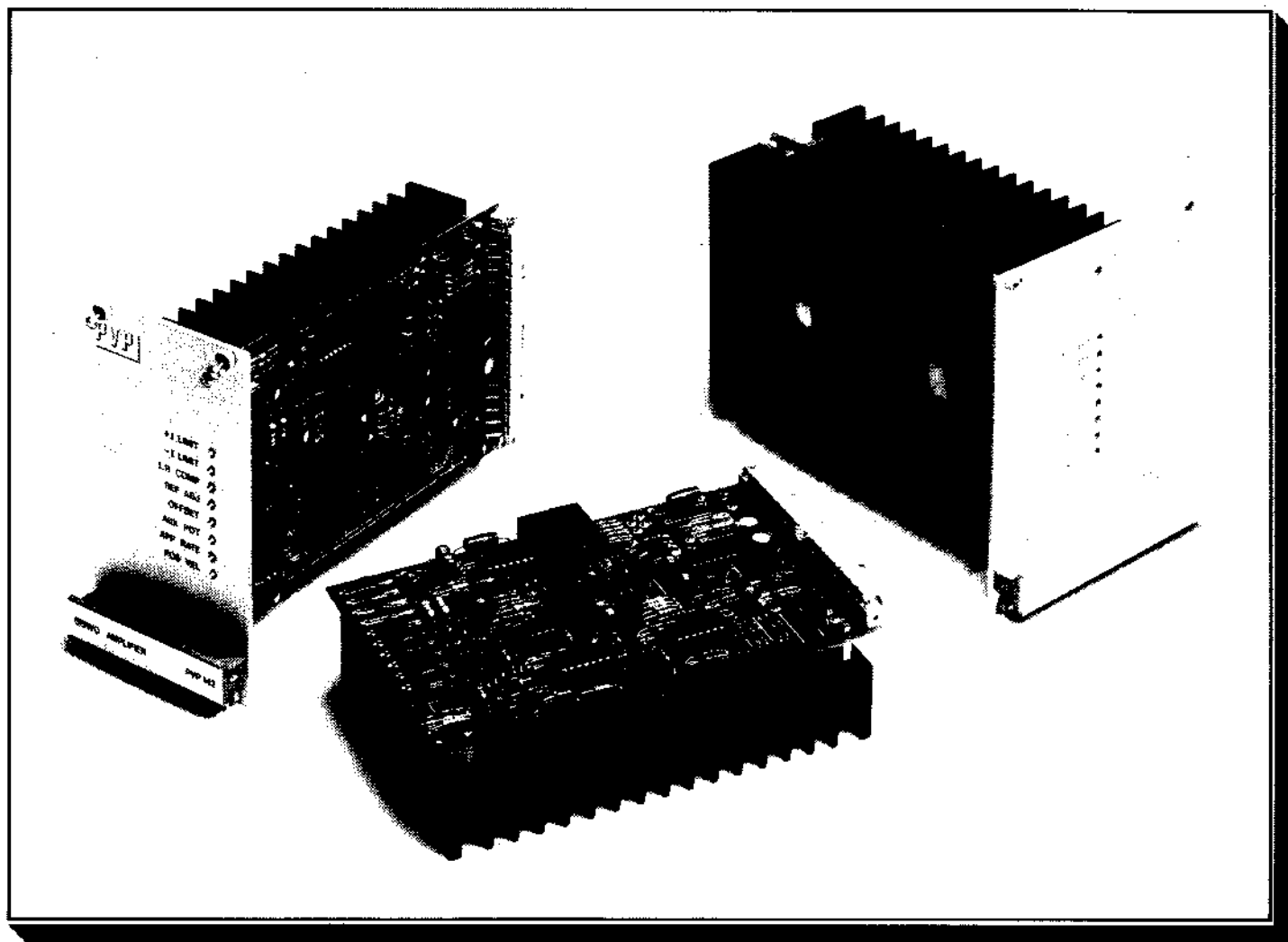


# 14 SERIES LINEAR SERVO AMPLIFIERS

## PVP 142/PVP144



PVP's series 14 range of linear servo amplifiers have been developed to meet the growing demand for high performance, low cost drives. They are designed to match the specifications of most D.C. permanent magnet servo motors with a voltage range of 12 to 36V. Features include: 4 quadrant operation with rugged MOSFET output stage; adjustable current limit circuit with automatic current boost facility in both directions; an adjustable precision reference for use with external setpoint potentiometers; velocity and position mode capability with adjustable positioning velocity and approach rate in position mode; tachogenerator or I.R. (armature) feedback capability in both velocity and position mode; output stage disable facility – the output stage may be totally disabled or just one direction may be selected allowing the use of external limit switches or safety circuits.

### Options

- i) Although overtemperature is not a problem a sensor may be fitted if required, to actuate an external fan and/or disable the output stage where high ambient temperatures are a problem.
- ii) A silkscreened 3U front panel can be supplied which is compatible with PVP's racks.

The drives along with PVP's range of power supplies are also available in PVP's standard racks.

Although a modular approach is offered, any special requirements can usually be fulfilled.

**ALZANTI**  
THE DRIVING FORCE IN MOTION CONTROL

### ALZANTI LIMITED

The Warren, Darby Green Lane, Blackwater,  
Camberley, Surrey, UK, GU17 0DN.

Tel: +44 (0)1252 861113

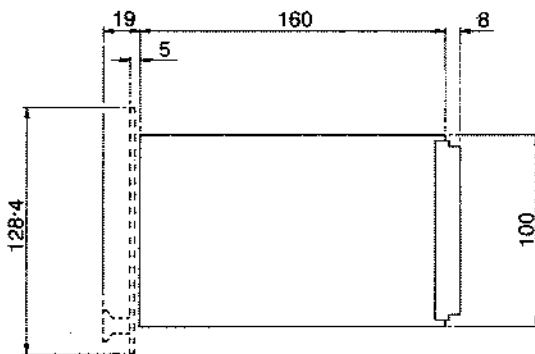
Fax: +44 (0)1252 861103

Email: [sales@alzanti.com](mailto:sales@alzanti.com)

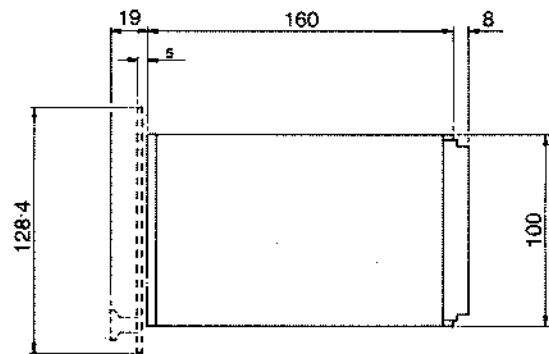
Website: <http://www.alzanti.com>

# SPECIFICATION

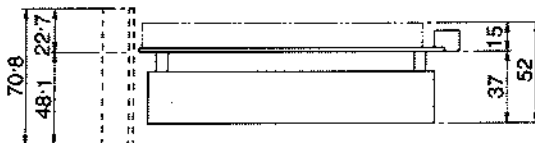
	PVP 142	PVP 144
Supply Rail Voltage (Vs):	±20 to 40Vdc smoothed, unregulated (+10% max.)	
Output Voltage:	Better than Vs – 6V at full load	
Output Voltage Supply Rejection:	Better than 200µV/V measured with tacho feedback.	
Output Current:	2A continuous up to 48W	4A continuous up to 96W
Output Current Adjustment Range:	Typically 1:6 from continuous rating.	
Current Boost:	Typically 2:1 for 1 second, from set value, depending on load. Maximum duty cycle 20% at continuous rating without assisted cooling.	
Full Power Bandwidth:	> 20KHz	
Signal Input Impedance:	Nominally 100KΩ dependent on configuration.	
Output Disable Inputs:	Contact closure (or similar) to 0V, typically 20mA depending on +Vs	
Reference Voltage Output:	Factory set at ±12V, adjustable from ±10V to ±13V.	
Reference Voltage Output Current:	± 50mA maximum	
Reference Voltage Stability:	Typically 30ppm/°C, 150ppm/°C maximum	
Operating Temperature Range:	0 to 40°C	
Connector:	32 way row a & c to DIN41612 style D	
Printed Circuit Board:	1.6mm glass fibre with solder mask and component identification.	
Weight:	0.6 Kg	1.1 Kg



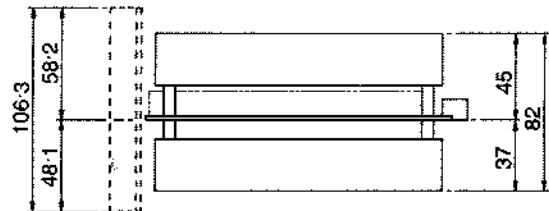
**PVP 142**



**PVP 144**



DIMENSIONS IN mm.



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