

## DC-DC CONVERTER

Rev: 00, Jun 2015, [www.variturn.com](http://www.variturn.com)

**DUAL OUTPUT**

**5V, 25A-125W AND 12V, 8A-96W**



Size : 5.4 x 3.098 x 0.61 inches (137.16 x 78.69 x 15.5mm)

### Key Features:

- Wide input range: 18 to 36 V.
- Dual output (12VDC and 5VDC).
- High Efficiency .
- Fixed frequency switching.
- Inhibit function.
- Isolated.
- UVLO.
- Short circuit protection.
- Over Temperature Shutdown.
- Input transient protection.
- -40<sup>o</sup> to +85<sup>o</sup>C operation (Base plate).
- Compact in size.

### Applications:

- Industrial power supplies.
- Telecommunication systems.
- Military.
- Ruggedized.

### Description:

VI220 Series DC/DC converter is an easy-to-use step-down DC-DC solution capable of driving up to 221W. These series of DC/DC converters are available in Customized package. These DC/DC converters can accept an input voltage rail between 18V and 36V and delivers a constant output voltage.

No external capacitors/ resistors required and it has reliable and robust design with following protection features: UVLO, Output short circuit , Over Temperature Shutdown.

### Inhibit function:

An inhibit is provided to allow a logic low input to shut down the converter. An open circuit on the inhibit pin allows disable operation. A connection between the inhibit pin and the input common disables the internal oscillator, shuts down the output.

	Voltage	DC/DC Output
Logic low/ Open	0 to 0.7V	Disabled
Logic high	3.3 to 5V	Enabled

### VARITURN ELECTRO PRODUCTS (P) LTD.

196, Phase-II, IDA, Charalapally, Hyderabad-500051, Telangana, INDIA.  
Tel: +91 40 27261308, 32443011, Fax: +91 40 27261309

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## Electrical Specifications:

Sl.no	Parameter	Specification
<b>Electrical:</b>		
1	DC input	18-36VDC.
2	DC Outputs (Floating)	12/8A and 5V/25A (Isolated ground returns)
3	Line/ Load regulation	< 1% (no load to full load)
4	Ripple & Noise	<50m Vp-p Typ (Max 1%)
5	Current limiting	Continuous protection for unlimited time.
6	Efficiency	87% Typical.
7	Isolation	200 V between input and output. 200 V between input and case. 100 V between Output and case.
<b>Protection:</b>		
1	Enable	Inhibit function
2	Over – Voltage shutdown	OVP & passive transorbs on outputs with auto recovery.
3	Over - Temperature	Shutdown at baseplate temp of +105°C (±5%) Automatic recovery at baseplate temp of +95°C (±5%) with auto recovery.
4	Short-circuit protection	Indefinite Short-circuit protection with auto recovery.
5	UVLO	Under voltage lockout
6	Input transient protection	MIL-STD-1275A (100V for 50mS) MIL-STD-704 A & D (80V for 0.1S)
<b>Environmental:</b>		
1	Temperature	Operation -40°C to +85°C (base plate)
2	EMI/ RFI Filters	Designed to meet MIL-STD-461C
3	Environmental	Designed to meet MIL-STD-810D.
4	Reliability	150,000 Hrs calculated for MIL-STD-217F at +85°C base plate ground fixed.

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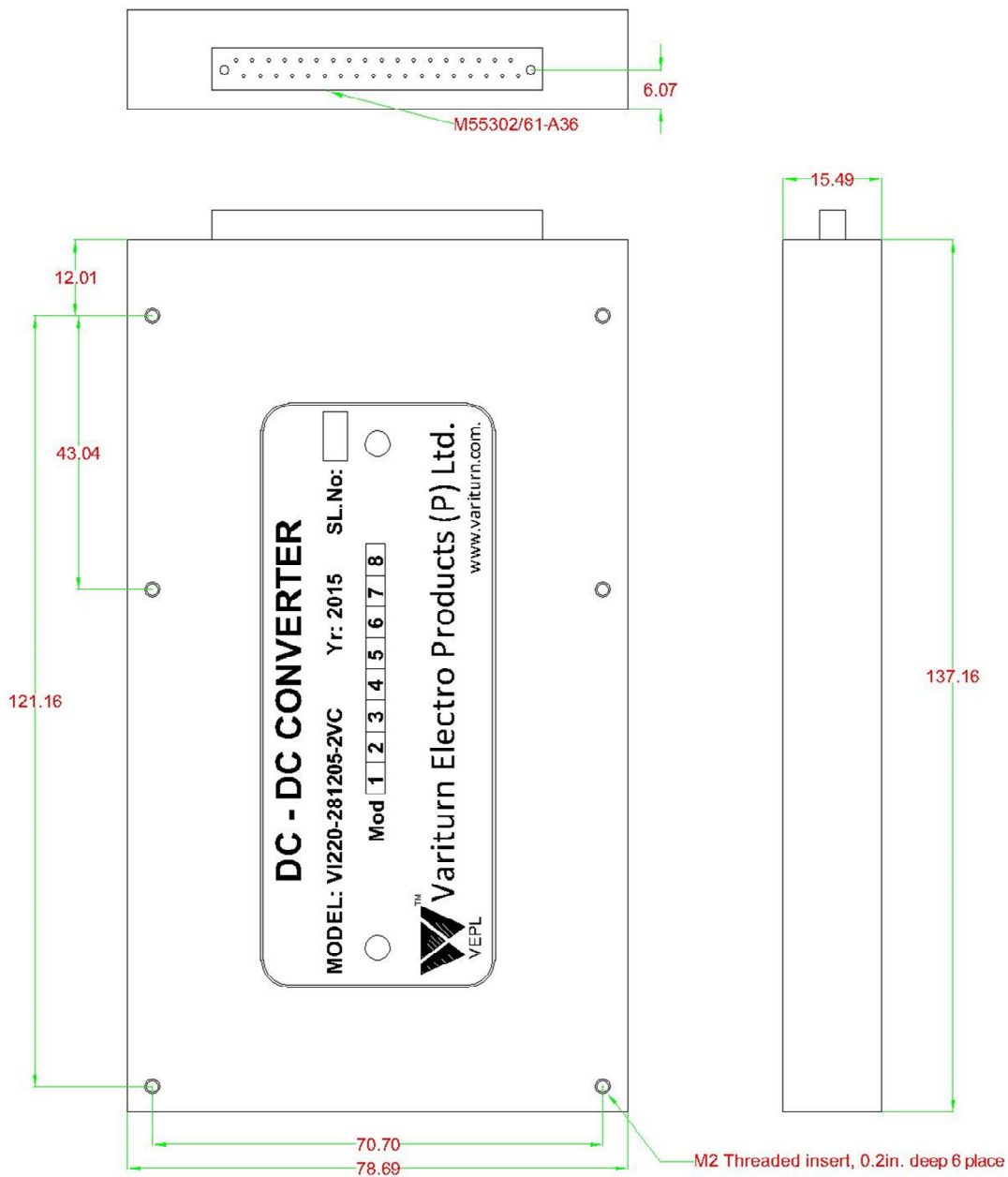
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### Dimensions:



Note: 1. All dimensions are in mm, unless otherwise specified.

2. Tolerance:  $\pm 0.15\text{mm}$ . (Max)

3. Not to scale

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