LTH236 SERIES
DC/DC Converter 12V input: 240 Watts

General Specifications
- Input Voltage: 12VDC (10-16)
- Input Protection: Reverse polarity protection, Inrush current limiting, Input Fuse
- Isolation: Input - Output 500vdc, Input - Chassis 500vdc, Output – Chassis 500vdc
- Efficiency: Model dependent, typically 80%
- Output voltage: See tables
- Output Power: 240 watts
- Voltage adjustment: Customer specified, typically 5%
- Regulation: Output voltage dependant, Typically: ±3-5%
- Output Protection: Over voltage protection, Constant Current limiting & short circuit protection
- EMI: EN55022 class A
- Immunity: EN61000-4
- Shock & Vibration: Designed to meet IEC61373 Cat 1 A & B
- Operating Temp.: 0°C to +50°C at full load, +70°C at 50% load.
- Dimensions: 254 x 113 x 58mm 1.2kg (F2)

Features
- Designed for 12VDC input applications
- 240 watts output power
- Convection cooled: No fans
- Over voltage protection
- Overload and short circuit protection
- MTBF > 130,000hrs
- Specials output voltage options
- Any output from 24vdc ~ 130vdc possible
- N+1 Redundancy Applications – option
- Output DC Fail alarm - Option
- Battery Charging applications - Option
- 19in Rack Mount - Option

Description
The LTH236 Series DC/DC converter, was designed for 12VDC input applications and is part of a wider range of units that are available with input voltage options up to 600VDC.

It is a mature design with a proven track record in many applications. The unit is equipped with reverse polarity protection on the input, surge protection and input & output filtering.

Cooling is by natural convection and optional ruggedizing & conformal coating is available, for immunity to shock, vibration, humidity, moisture, dust and insects.

An optional redundancy diode allows parallel connection to achieve higher output power or N+1 redundancy. This chassis-mount design is optimized for low component count and high efficiency.

Options
- Output Voltage: Special voltage output, up to 130VDC
- Alarm: Voltage Free contacts
- N+1 Redundancy: Output redundancy diode for parallel operation
- Eurocard: Plug in Eurocard option: 3U x 14HP x 220mm

<table>
<thead>
<tr>
<th>Model</th>
<th>Output V</th>
<th>Output A</th>
<th>Power W</th>
</tr>
</thead>
<tbody>
<tr>
<td>LTH236-12-13.8FT</td>
<td>13.8V</td>
<td>15A</td>
<td>200W</td>
</tr>
<tr>
<td>LTH236-12-24FT</td>
<td>24V</td>
<td>10A</td>
<td>240W</td>
</tr>
<tr>
<td>LTH236-12-28FT</td>
<td>28V</td>
<td>8.5A</td>
<td>240W</td>
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<tr>
<td>LTH236-12-36FT</td>
<td>36V</td>
<td>6.6A</td>
<td>240W</td>
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<td>LTH236-12-48FT</td>
<td>48V</td>
<td>5A</td>
<td>240W</td>
</tr>
<tr>
<td>LTH236-12-110FT</td>
<td>110V</td>
<td>2.1A</td>
<td>240W</td>
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</tbody>
</table>

Description graphic

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