

DDH300 Range

300/400 Watt DC-DC Converters

Fully Isolated Input to Output

Float Charging feature on high Output



| Model | Input Voltage | Low Output Voltage/Current | High Output Voltage/Current | Output Power Low / High |
|------------|---------------|----------------------------|-----------------------------|-------------------------|
| DDH300 V16 | 10-19V DC | 12V 17A | 13.8V 20A | 204 / 276 Watt |
| DDH300 V14 | 10-19V DC | 24V 8.5A | 27.6V 10A | 204 / 276 Watt |
| DDH300 V27 | 10-19V DC | 48V 4.25A | 55.2V 5A | 204 / 276 Watt |
| DDH300 B12 | 19-36V DC | 12V 25A | 13.8V 30A | 300 / 400 Watt |
| DDH300 B24 | 19-36V DC | 24V 12.5A | 27.6V 15A | 300 / 400 Watt |
| DDH300 B48 | 19-36V DC | 48V 6.2A | 55.2V 7.5A | 300 / 400 Watt |
| DDH300 C12 | 36-72V DC | 12V 25A | 13.8V 30A | 300 / 400 Watt |
| DDH300 C24 | 36-72V DC | 24V 12.5A | 27.6V 15A | 300 / 400 Watt |
| DDH300 C48 | 36-72V DC | 48V 6.2A | 55.2V 7.5A | 300 / 400 Watt |
| DDH300 D12 | 72-144V DC | 12V 25A | 13.8V 30A | 300 / 400 Watt |
| DDH300 D24 | 72-144V DC | 24V 12.5A | 27.6V 15A | 300 / 400 Watt |
| DDH300 D48 | 72-144V DC | 48V 6.2A | 55.2V 7.5A | 300 / 400 Watt |

Standard Features

- The DDH 300 features a switch selectable 'low' output voltage for working as a DC power supply and a 'high' output voltage which allows the user to float charge a lead acid battery from a battery.
- Galvanic Isolation between input and output (500V max.)
- Ambient Operating Temperature : 0-45°C
- Efficiency: typically 80% at full load
- Substantial Input Filter
- Thermal protection by self-resetting trip. This operates when the heatsink reaches 90°C and resets when the temperature drops to 70°
- Indication for 'output on'
- Low current on/off control input (<3mA sink to negative to turn on)
- Stabilised output voltage
- 2 :1 Input voltage range
- Fan cooled
- Weight : 1.8kg
- Dimensions : 242mm x 170mm x 65mm
- Input & Output Connections: Screw Terminals that accept up to 6mm² cable
- Protection for :-
 - reverse polarity on input and output
 - input under voltage (shutdown, auto re-start)
 - output over voltage (shutdown, auto re-start)
 - short circuit output (electronic current limit)

The Technology

The DDH300 range of DC-DC Converters use high frequency switched mode technology for high efficiency, small size and light weight.

'Current Mode' circuitry ensures reliable operation even for the arduous task of battery charging. Mosfet switching devices produce superb performance and only the highest quality components are used throughout.

Isolation

Galvanic Isolation between input and output cures difficult ground loop problems, allowing optimum wiring in complex systems. This can avoid noisy power lines degrading signal lines.

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