

# **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 6mm<sup>2</sup> 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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