



# DDH Range 150 - 400 Watt DC-DC Converters

## The Technology

The DDH 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 & 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.



Model	Input Voltage	Nominal Voltage	Low Output	High Output
DDH150 150 / 200 Watts	A, B, C or D	12V	12V 12.5A	13.8V 15A
		24V	24V 6.25A	27.6V 7.5A
		48V	48V 3.15A	55.2V 3.7A
DDH300 204 / 276 Watts	A	12V	12V 17A	13.8V 20A
		24V	24V 8.5A	27.6V 10A
		48V	48V 4.25A	55.2V 5A
DDH300 300 / 400 Watts	B, C or D	12V	12V 25A	13.8V 30A
		24V	24V 12.5A	27.6V 15A
		48V	48V 6.2A	55.2V 7.5A

A - 10-19V B - 19-36V  
C - 36-72V D - 72-144V

## Standard 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°C.
- 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.
- 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)

	DDH150	DDH300
Cooling	Convection	Fan
Screw Terminals	4mm <sup>2</sup>	6mm <sup>2</sup>
Weight	1.2kg	1.8kg
Dimensions	180mm x 158mm x 65mm	242mm x 170mm x 65mm

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