

# 100 Watt, DHS-A Series, DC-DC Converter (Single Output)



- High Input Range
- Regulated Outputs
- 3000V Isolation
- Industry Standard Encapsulated Package
- Quarter Brick
- Over Voltage and Current Protection
- High Efficiency up to 88%
- -40 to +100 °C Operational Temperature Range



### Specification (typical values shown)

Input Range.....	60~160 Volts
Outputs.....	Single (see table below plus trim range)
Start Up Time.....	200ms max
Line Regulation.....	0.2%
Load Regulation.....	0.2%
Efficiency.....	See table for each model
Over Current Protection.....	above 105% of nominal rated output, automatic recovery
Isolation Voltage.....	I/P~O/P: 3000 VDC
Operating Temperature.....	-40 to +100 °C
Storage Temperature.....	-40 to +100 °C
Approval.....	UL60950-1, cUL (CSA60950-1), EN60950-1
Case Material.....	Aluminium baseplate, PBT Case
Weight.....	60 g

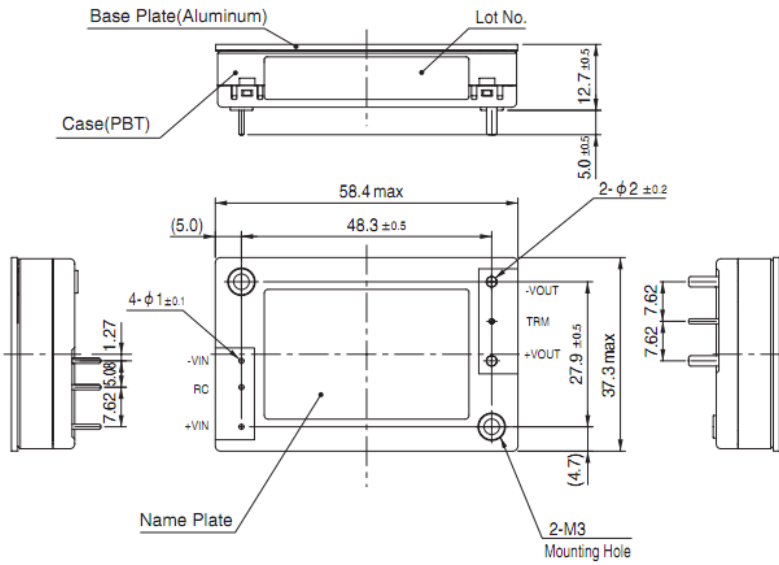
### Models and Ratings

Model	Input Range	Output Voltage	Output Current	Efficiency
DHS100A05	60~160 VDC	5.0 V	20.0 A	85%
DHS100A12		12.0 V	8.4 A	88%
DHS100A15		15.0 V	6.7 A	88%
DHS100A24		24.0 V	4.2 A	88%

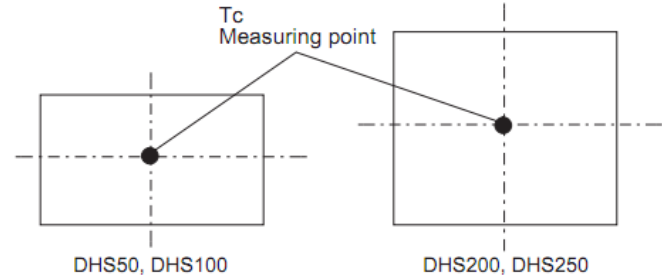
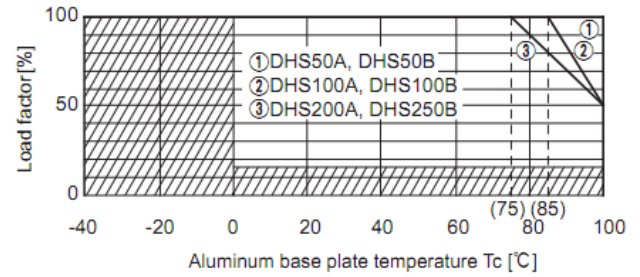
For mechanical data and pinout, see next page

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## Mechanical Details and Pin-Out



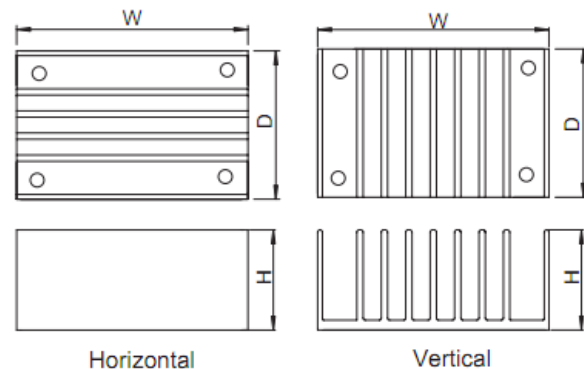
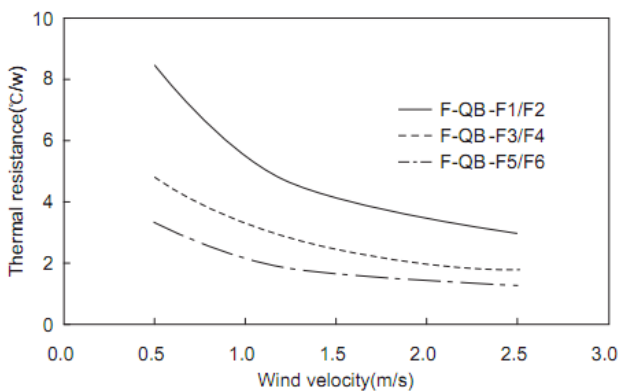
## Derating Curve



## Addition of a Heat sink :

These DC-DC Converters work with conduction cooling and therefore needs heat dissipation using heat sinks. Optional heat sinks are available for the DHS Series, please see table below

Model	Size (mm)			Thermal Resistance (°C/W)		Style
	H	W	D	Convection (0.1m/s)	Forced Air	
F-QB-F1	12.7	58.4	37.6	14.0	See Graph Below	Horizontal
F-QB-F2	12.7	58.7	37.3			Vertical
F-QB-F3	25.4	58.4	37.6	7.5		Horizontal
F-QB-F4	25.4	58.7	37.3			Vertical
F-QB-F5	38.1	58.4	37.6	5.0		Horizontal
F-QB-F6	38.1	58.7	37.3			Vertical



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply  
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