

250 Watt, DHS-B Series, DC-DC Converter (Single Output)

ALL PSU LTD
Electronic Power Solutions

- High Input Range
- Regulated Outputs
- 3000V Isolation
- Industry Standard Encapsulated Package
- Half Brick
- Over Voltage and Current Protection
- High Efficiency up to 90%
- -40 to +100 °C Operational Temperature Range



Specification (typical values shown)

Input Range.....	200~400 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, EN60950-1
Case Material.....	Aluminium baseplate, PBT Case
Weight.....	100 g

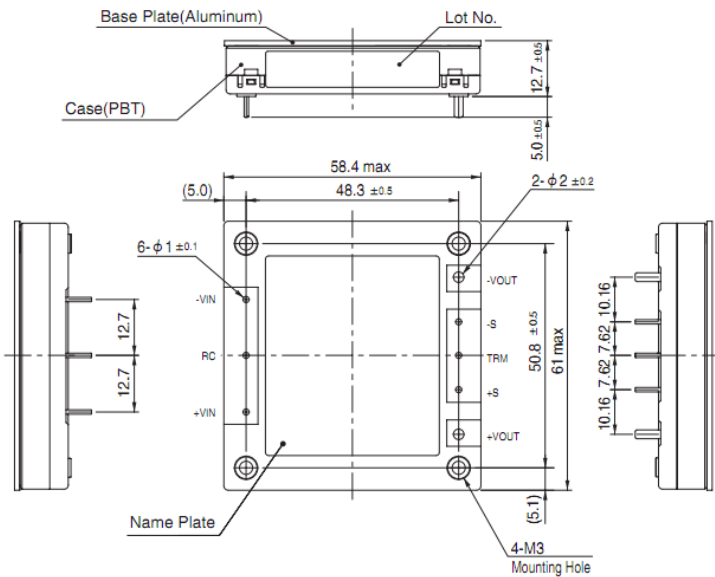
Models and Ratings

Model	Input Range	Output Voltage	Output Current	Efficiency
DHS250B03	200~400 VDC	3.3 V	50.0 A	88%
DHS250B05		5.0 V	50.0 A	90%
DHS250B07		7.5 V	33.0 A	88%
DHS250B12		12.0 V	21.0 A	88%
DHS250B15		15.0 V	16.5 A	88%
DHS250B24		24.0 V	10.5 A	88%
DHS250B28		28.0 V	9.0 A	88%
DHS250B48		48.0 V	5.2 A	89%

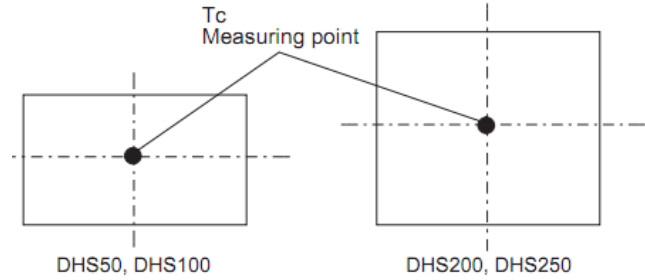
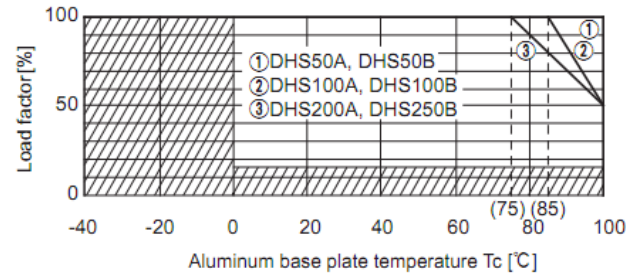
For mechanical data and pinout, see next page

ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,
Rochester, Kent, ME24HU, Tel : 01634 725527, Fax : 01634 739111,
Email : sales@allpsu.co.uk , Web : www.allpsu.co.uk

Mechanical Details and Pin-Out



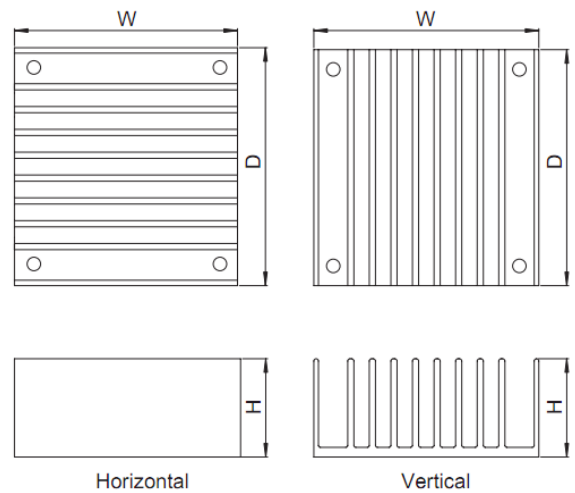
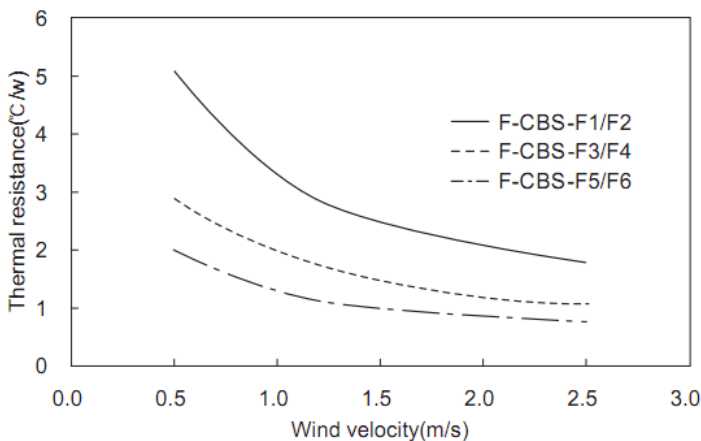
Derating Curve



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-CBS-F1	12.7	57.9	61.5	14.0	See Graph Below	Horizontal
F-CBS-F2	12.7	58.4	61.0			Vertical
F-CBS-F3	25.4	57.9	61.5	7.5		Horizontal
F-CBS-F4	25.4	58.4	61.0			Vertical
F-CBS-F5	38.1	57.9	61.5	5.0		Horizontal
F-CBS-F6	38.1	58.4	61.0			Vertical



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply
ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,
Rochester, Kent, ME2 4HU, Tel : 01634 725527, Fax : 01634 739111
Email : sales@allpsu.co.uk, Web : www.allpsu.co.uk