

# 450 Watt, CBS Series, DC-DC Converter (Single Output)

**ALL PSU LTD**  
Electronic Power Solutions

- 2:1 Input Range
- Regulated Outputs
- 1500V Isolation
- Industry Standard Base Plate Cooled Package
- Additional Heatsink Options
- Over Voltage and Over Current Protection
- High Efficiency up to 91%
- -40 to +100 °C Operational Temperature Range



## Specification (typical values shown)

Input Range.....	38~60 Volts, 36~76 Volts
Outputs.....	Single (see table below plus output trim range)
Start Up Time.....	200ms max
Line Regulation.....	+/-0.2% max.
Load Regulation.....	+/-0.2% max.
Efficiency.....	See table for each model
Over Current Protection.....	above 105% of nominal rated output, automatic recovery
Isolation Voltage.....	I/P~O/P: 1.5kVDC
Operating Temperature.....	-40 to +100 °C case temperature @ full load
Storage Temperature.....	-40 to +100 °C
Approval.....	UL60950-1, cUL, EN60950-1
Case Material.....	Aluminium baseplate, PBT Case
Weight.....	83 g

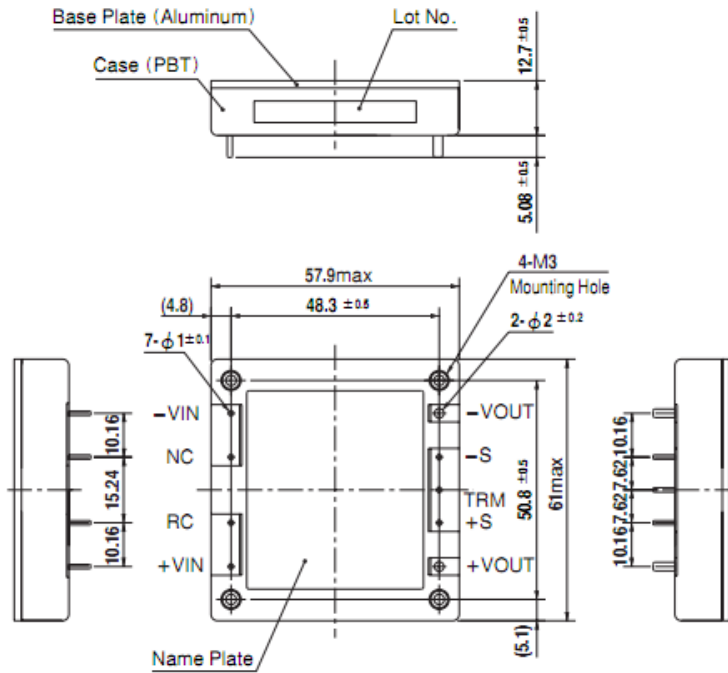
## Models and Ratings

Model	Input Range	Output Voltage	Output Trim Range	Max Output Current	Efficiency
CBS4502424	38~60 VDC	24.0 V	19.2~26.0 V	19.0 A	90%
CBS4502428	36~76 VDC	28.0 V	16.8~32.1 V	16.0 A	91%
CBS4502432		32.0 V	25.6~35.2 V	12.5 A	91%

For mechanical data and pinout, see next page

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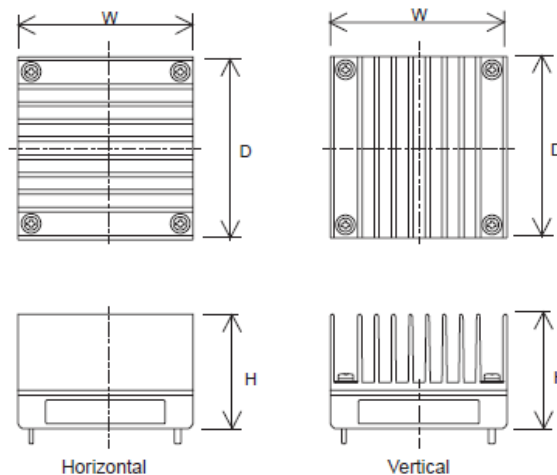
## Mechanical Details and Pin-Out



### Addition of a Heat sink :

These power modules work with conduction cooling and therefore needs heat dissipation using heat sinks. Optional heat sinks are available for the CBS Series, please see table below. Height measurement includes Converter when fitted with Heat Sink.

Option	Size (mm)			Weight (g)	Style	Heat sink Name
	H	W	D			
F1	26.5	58.7	62.5	150 or Less	Horizontal	F-CBS-F1
F2	26.5	59.5	62		Vertical	F-CBS-F2
F3	39.2	58.7	62.5	170 or Less	Horizontal	F-CBS-F3
F4	39.2	59.5	62		Vertical	F-CBS-F4
F5	52	58.7	62.5	185 or Less	Horizontal	F-CBS-F5
F6	52	59.5	62		Vertical	F-CBS-F6



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