

## 350 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 Ranges.....	20~36 Volts, 36~60 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

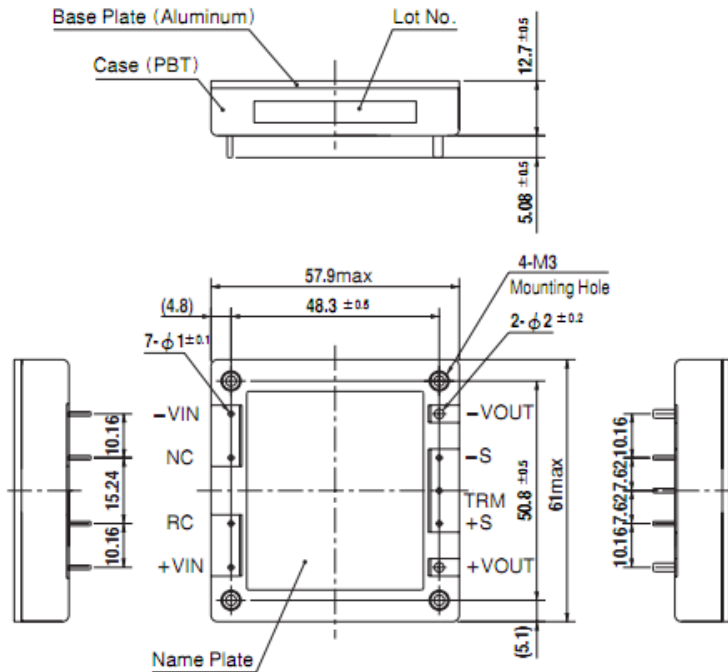
### Models and Ratings

Model	Input Range	Output Voltage	Output Trim Range	Max Output Current	Efficiency
CBS3502412	20~36 VDC	12.0 V	7.2~13.2 V	25 A	86%
CBS3502424		24.0 V	14.4~26.4 V	14.5 A	87%
CBS3502428		28.0 V	16.8~30.8 V	12.5 A	89%
CBS3502432		32.0 V	25.6~35.2 V	11 A	89%
CBS3502448		48.0 V	38.4~52.8 V	6.3 A	90%
CBS3504812	36~76 VDC	12.0 V	7.2~13.2 V	29 A	87%
CBS3504824		24.0 V	14.4~26.4 V	14.5 A	89%
CBS3504828		28.0 V	16.8~30.8 V	12.5 A	90%
CBS3504832		32.0 V	25.6~35.2 V	11 A	90%
CBS3504848	36~60 VDC	48.0 V	38.4~55.2 V	7.3 A	91%

For mechanical data and pinout, see next page

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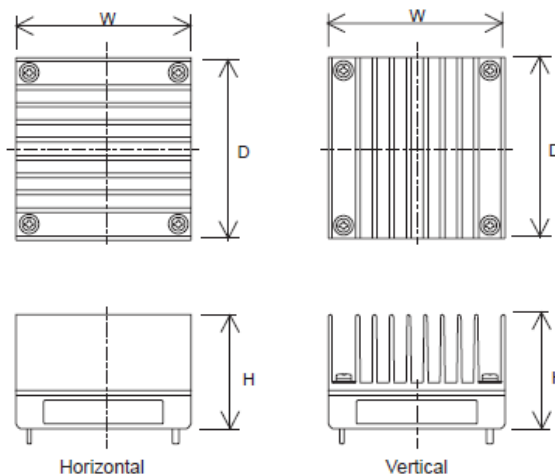
## Mechanical Details and Pin-Out



### 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 the Converter with Heat Sink fitted.

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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