

200 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 88%
- -40 to +100 °C Operational Temperature Range



Specification (typical values shown)

Input Ranges.....	18~36 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

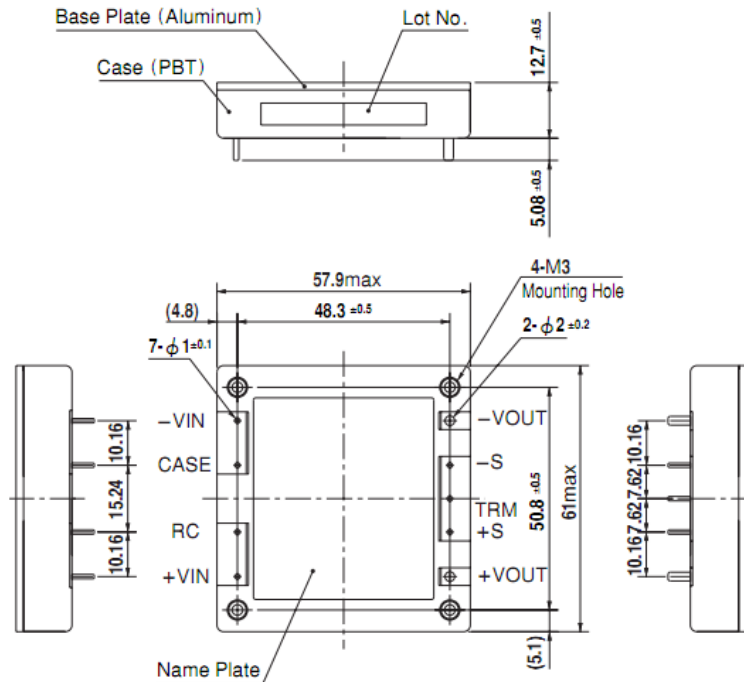
Models and Ratings

Model	Input Range	Output Voltage	Output Trim Range	Max Output Current	Efficiency
CBS200241R8	18~36 VDC	1.8 V	1.70~1.98 V	35 A	70%
CBS200242R5		2.5 V	1.98~2.75 V	35 A	76%
CBS2002403		3.3 V	1.98~3.63 V	35 A	79%
CBS2002405		5.0 V	3.0~5.5 V	30 A	82%
CBS2002412		12.0 V	7.2~13.2 V	16.7 A	87%
CBS2002415		15.0 V	9.0~16.5 V	13.4 A	87%
CBS2002424		24.0 V	14.4~26.4 V	8.4 A	87%
CBS2002428		28.0 V	16.8~30.8 V	7.2 A	87%
CBS200481R8	36~76 VDC	1.8 V	1.70~1.98 V	35 A	70%
CBS200482R5		2.5 V	1.98~2.75 V	35 A	76%
CBS2004803		3.3 V	1.98~3.63 V	35 A	80%
CBS2004805		5.0 V	3.0~5.5 V	30 A	83%
CBS2004812		12.0 V	7.2~13.2 V	16.7 A	88%
CBS2004815		15.0 V	9.0~16.5 V	13.4 A	88%
CBS2004824		24.0 V	14.4~26.4 V	8.4 A	88%
CBS2004828		28.0 V	16.8~30.8 V	7.2 A	88%
CBS2004848	48.0 V	43.2~52.8 V	4.2 A	88%	

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 below includes converter once heat Sink is 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

