

100 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 89%
- -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

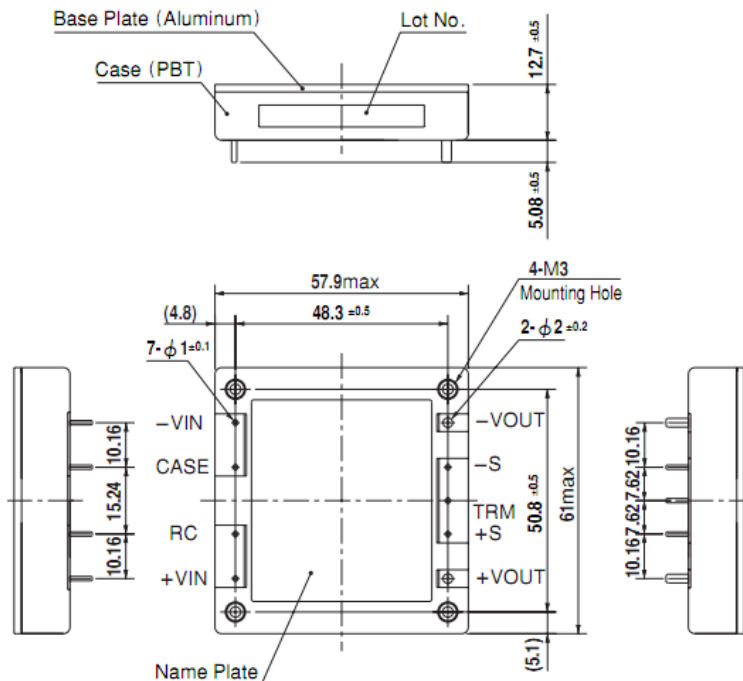
Models and Ratings

Model	Input Range	Output Voltage	Output Trim Range	Max Output Current	Efficiency
CBS100241R8	18~36 VDC	1.8 V	1.70~1.98 V	23.4 A	71%
CBS100242R5		2.5 V	1.98~2.75 V	23.4 A	77%
CBS1002403		3.3 V	1.98~3.63 V	23.4 A	79%
CBS1002405		5.0 V	3.0~5.5 V	20 A	83%
CBS1002412		12.0 V	7.2~13.2 V	8.4 A	88%
CBS1002415		15.0 V	9.0~16.5 V	6.7 A	87%
CBS1002424		24.0 V	14.4~26.4 V	4.2 A	87%
CBS1002428		28.0 V	16.8~30.8 V	3.6 A	87%
CBS100481R8	36~76 VDC	1.8 V	1.70~1.98 V	23.4 A	71%
CBS100482R5		2.5 V	1.98~2.75 V	23.4 A	77%
CBS1004803		3.3 V	1.98~3.63 V	23.4 A	80%
CBS1004805		5.0 V	3.0~5.5 V	20 A	84%
CBS1004812		12.0 V	7.2~13.2 V	8.4 A	89%
CBS1004815		15.0 V	9.0~16.5 V	6.7 A	88%
CBS1004824		24.0 V	14.4~26.4 V	4.2 A	88%
CBS1004828		28.0 V	16.9~30.8 V	3.6 A	88%

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



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 is including Converter once 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

