

- 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)

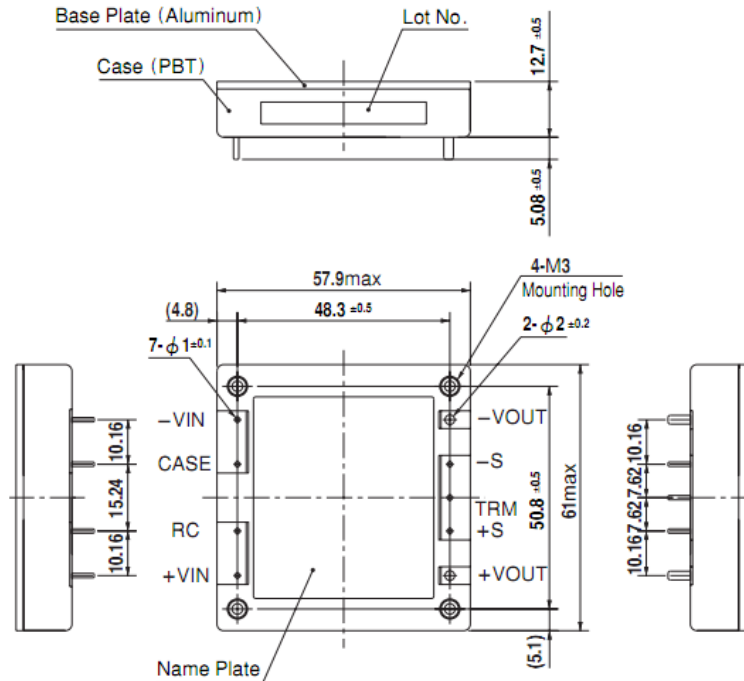
Input Ranges.....	18~36 Volts, 36~76 Volts
Outputs.....	Single (see table, plus wide output trim range)
Start Up Time.....	200ms max
Line Regulation.....	+/-0.2% max.
Load Regulation.....	+/-0.2% max.
Efficiency.....	See table for each model
Over Current Protection.....	above 105% of nominal rated output, automatic recovery
Isolation Voltage.....	I/P~O/P: 1.5kVDC
Operating Temperature.....	-40 to +100 °C on base plate @ 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
CBS50241R8	18~36 VDC	1.8 V	1.70~1.98 V	11.7 A	71%
CBS50242R5		2.5 V	1.98~2.75 V	11.7 A	77%
CBS502403		3.3 V	1.98~3.63 V	11.7 A	79%
CBS502405		5.0 V	3.0~5.5 V	10 A	84%
CBS502412		12.0 V	7.2~13.2 V	4.2 A	88%
CBS502415		15.0 V	9.0~16.5 V	3.4 A	87%
CBS502424		24.0 V	14.4~26.4 V	2.1 A	87%
CBS502428		28.0 V	16.8~30.8 V	1.8 A	87%
CBS50481R8	36~76 VDC	1.8 V	1.70~1.98 V	11.7 A	71%
CBS50482R5		2.5 V	1.98~2.75 V	11.7 A	77%
CBS504803		3.3 V	1.98~3.63 V	11.7 A	80%
CBS504805		5.0 V	3.0~5.5 V	10 A	85%
CBS504812		12.0 V	7.2~13.2 V	4.2 A	89%
CBS504815		15.0 V	9.0~16.5 V	3.4 A	88%
CBS504824		24.0 V	14.4~26.4 V	2.1 A	88%
CBS504828		28.0 V	16.8~30.8 V	1.8 A	88%

For mechanical data and pinout, see next page

## Mechanical Details and Pin-Out



**Addition of a Heat Sink :** (can be supplied separately or pre-fitted to the converter).

These power modules work with conduction cooling and therefore need heat dissipation via the base plate. Optional heat sinks are available for the CBS Series, please see table below. Height measurements below includes Converter once 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

