

COSEL DC-DC Converters Power Module type

CBS100

Ordering information

CB S 100 48 12 - ☐

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
24:DC18 - 36V
48:DC36 - 76V
- ⑤ Output voltage
- ⑥ Optional
R :with Remote ON/OFF
Positive logic control
T :with Mounting hole
φ 3.4 thru
F ☐ :with Addition of a Heat sink

MODEL	CBS100241R8	CBS100242R5	CBS1002403	CBS1002405	CBS1002412	CBS1002415	CBS1002424	CBS1002428
MAX OUTPUT WATTAGE[W]	42.12	58.50	77.2	100.0	100.8	100.5	100.8	100.8
DC OUTPUT	1.8V 23.4A	2.5V 23.4A	3.3V 23.4A	5V 20A	12V 8.4A	15V 6.7A	24V 4.2A	28V 3.6A

SPECIFICATIONS

	MODEL	CBS100241R8	CBS100242R5	CBS1002403	CBS1002405	CBS1002412	CBS1002415	CBS1002424	CBS1002428
INPUT	VOLTAGE[V]	DC18 - 36							
	CURRENT[A]	*1 2.47typ	3.17typ	4.07typ	5.02typ	4.77typ	4.81typ	4.83typ	4.83typ
	EFFICIENCY[%]	*1 71typ	77typ	79typ	83typ	88typ	87typ	87typ	87typ
OUTPUT	VOLTAGE[V]	1.8	2.5	3.3	5	12	15	24	28
	CURRENT[A]	23.4	23.4	23.4	20	8.4	6.7	4.2	3.6
	LINE REGULATION[mV]	10max	10max	10max	10max	24max	30max	48max	56max
	LOAD REGULATION[mV]	10max	10max	10max	10max	24max	30max	48max	56max
	RIPPLE[mVp-p]	-20 to +100°C *2	80max	80max	80max	80max	120max	120max	120max
		-40 to -20°C *2	120max	120max	120max	120max	150max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *2	120max	120max	120max	120max	150max	150max	150max
		-40 to -20°C *2	200max	200max	200max	200max	200max	250max	250max
	TEMPERATURE REGULATION[mV]	0 to +65°C	35max	35max	35max	50max	120max	240max	280max
		-40 to +100°C	66max	66max	66max	100max	240max	300max	560max
PROTECTION CIRCUIT AND OTHERS	DRIFT[mV]	*3 16max	16max	16max	20max	40max	60max	90max	90max
	START-UP TIME[ms]	200max (DCIN 24V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external resistor							
		1.70 - 1.98	1.98 - 2.75	1.98 - 3.63	3.0 - 5.5	7.2 - 13.2	9.0 - 16.5	14.4 - 26.4	16.8 - 30.8
	OUTPUT VOLTAGE SETTING[V]	1.77 - 1.88	2.46 - 2.61	3.25 - 3.45	4.90 - 5.20	11.74 - 12.46	14.55 - 15.45	23.28 - 24.72	27.16 - 28.84
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION[V]	2.16 - 2.88	3.00 - 4.00	4.00 - 5.50	5.75 - 7.00	13.80 - 16.80	17.25 - 21.00	27.60 - 33.60	32.20 - 39.20
	REMOTE SENSING	Provided							
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)							

MODEL	CBS100481R8	CBS100482R5	CBS1004803	CBS1004805	CBS1004812	CBS1004815	CBS1004824	CBS1004828
MAX OUTPUT WATTAGE[W]	42.12	58.50	77.2	100.0	100.8	100.5	100.8	100.8
DC OUTPUT	1.8V 23.4A	2.5V 23.4A	3.3V 23.4A	5V 20A	12V 8.4A	15V 6.7A	24V 4.2A	28V 3.6A

SPECIFICATIONS

	MODEL	CBS100481R8	CBS100482R5	CBS1004803	CBS1004805	CBS1004812	CBS1004815	CBS1004824	CBS1004828
INPUT	VOLTAGE[V]	DC36 - 76							
	CURRENT[A]	*1 1.24typ	1.58typ	2.01typ	2.48typ	2.36typ	2.38typ	2.39typ	2.39typ
	EFFICIENCY[%]	*1 71typ	77typ	80typ	84typ	89typ	88typ	88typ	88typ
OUTPUT	VOLTAGE[V]	1.8	2.5	3.3	5	12	15	24	28
	CURRENT[A]	23.4	23.4	23.4	20	8.4	6.7	4.2	3.6
	LINE REGULATION[mV]	10max	10max	10max	10max	24max	30max	48max	56max
	LOAD REGULATION[mV]	10max	10max	10max	10max	24max	30max	48max	56max
	RIPPLE[mVp-p]	-20 to +100°C *2	80max	80max	80max	80max	120max	120max	120max
		-40 to -20°C *2	120max	120max	120max	120max	150max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *2	120max	120max	120max	120max	150max	150max	150max
		-40 to -20°C *2	200max	200max	200max	200max	200max	250max	250max
	TEMPERATURE REGULATION[mV]	0 to +65°C	35max	35max	35max	50max	120max	240max	280max
		-40 to +100°C	66max	66max	66max	100max	240max	300max	560max
PROTECTION CIRCUIT AND OTHERS	DRIFT[mV]	*3 16max	16max	16max	20max	40max	60max	90max	90max
	START-UP TIME[ms]	200max (DCIN 48V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external resistor							
		1.70 - 1.98	1.98 - 2.75	1.98 - 3.63	3.0 - 5.5	7.2 - 13.2	9.0 - 16.5	14.4 - 26.4	16.8 - 30.8
	OUTPUT VOLTAGE SETTING[V]	1.77 - 1.88	2.46 - 2.61	3.25 - 3.45	4.90 - 5.20	11.74 - 12.46	14.55 - 15.45	23.28 - 24.72	27.16 - 28.84
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION[V]	2.16 - 2.88	3.00 - 4.00	4.00 - 5.50	5.75 - 7.00	13.80 - 16.80	17.25 - 21.00	27.60 - 33.60	32.20 - 39.20
	REMOTE SENSING	Provided							
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)							

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

Click below for more details, to buy on-line or request volume pricing:

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