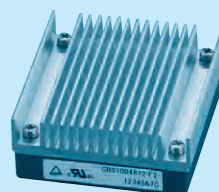


CBS100

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
□ :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]	2.47typ	3.17typ	4.07typ	5.02typ	4.77typ	4.81typ	4.83typ	4.83typ
	EFFICIENCY[%]	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℃ *2 80max	-20 to +100℃ *2 80max	-20 to +100℃ *2 80max	-20 to +100℃ *2 80max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max
	RIPPLE NOISE[mVp-p]	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 150max	-20 to +100℃ *2 150max	-20 to +100℃ *2 150max	-20 to +100℃ *2 150max
	TEMPERATURE REGULATION[mV]	0 to +65℃ 200max	0 to +65℃ 200max	0 to +65℃ 200max	0 to +65℃ 200max	0 to +65℃ 200max	0 to +65℃ 200max	0 to +65℃ 250max	0 to +65℃ 250max
	DRIFT[mV]	-40 to +100℃ *3 35max	-40 to +100℃ *3 35max	-40 to +100℃ *3 35max	-40 to +100℃ *3 50max	-40 to +100℃ *3 120max	-40 to +100℃ *3 150max	-40 to +100℃ *3 240max	-40 to +100℃ *3 280max
	START-UP TIME[ms]	66max	66max	66max	100max	240max	300max	480max	560max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	16max	16max	16max	20max	40max	60max	90max	90max
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	200max (DCIN 24V, I _o =100%)							
	OVERVOLTAGE PROTECTION[V]	Fixed (TRM pin open), adjustable by external resistor							
	REMOTE SENSING	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
	REMOTE ON/OFF	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]	1.24typ	1.58typ	2.01typ	2.48typ	2.36typ	2.38typ	2.39typ	2.39typ
	EFFICIENCY[%]	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℃ *2 80max	-20 to +100℃ *2 80max	-20 to +100℃ *2 80max	-20 to +100℃ *2 80max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max
	RIPPLE NOISE[mVp-p]	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 120max	-20 to +100℃ *2 150max	-20 to +100℃ *2 150max	-20 to +100℃ *2 150max	-20 to +100℃ *2 150max
	TEMPERATURE REGULATION[mV]	-20 to +100℃ *2 200max	-20 to +100℃ *2 200max	-20 to +100℃ *2 200max	-20 to +100℃ *2 200max	-20 to +100℃ *2 200max	-20 to +100℃ *2 200max	-20 to +100℃ *2 250max	-20 to +100℃ *2 250max
	DRIFT[mV]	0 to +65℃ 35max	0 to +65℃ 35max	0 to +65℃ 35max	0 to +65℃ 50max	0 to +65℃ 120max	0 to +65℃ 150max	0 to +65℃ 240max	0 to +65℃ 280max
	START-UP TIME[ms]	-40 to +100℃ *3 66max	-40 to +100℃ *3 66max	-40 to +100℃ *3 66max	-40 to +100℃ *3 100max	-40 to +100℃ *3 240max	-40 to +100℃ *3 300max	-40 to +100℃ *3 480max	-40 to +100℃ *3 560max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	16max	16max	16max	20max	40max	60max	90max	90max
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	200max (DCIN 48V, I _o =100%)							
	OVERVOLTAGE PROTECTION[V]	Fixed (TRM pin open), adjustable by external resistor							
	REMOTE SENSING	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
	REMOTE ON/OFF	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)							

GENERAL SPECIFICATIONS

ISOLATION	INPUT-OUTPUT	DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min(20 $\pm$ 15 $^{\circ}$ C)
	INPUT-CASE PIN, BASE PLATE	DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min(20 $\pm$ 15 $^{\circ}$ C)
	OUTPUT-CASE PIN, BASE PLATE	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20 $\pm$ 15 $^{\circ}$ C)
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100 $^{\circ}$ C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max
	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100 $^{\circ}$ C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max
	VIBRATION	10 - 55Hz, 49.0m/s 2 (5G), 3minutes period, 60minutes each along X, Y and Z axis
SAFETY	IMPACT	196.1m/s 2 (20G), 11ms, once each along X, Y and Z axis
	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1
OTHERS	CASE SIZE/WEIGHT	57.9 $\times$ 12.7 $\times$ 61.0mm [2.28 $\times$ 0.5 $\times$ 2.4 inches] (W $\times$ H $\times$ D) / 83g max
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)

*1 At rated input(DC24V,DC48V) and rated load.

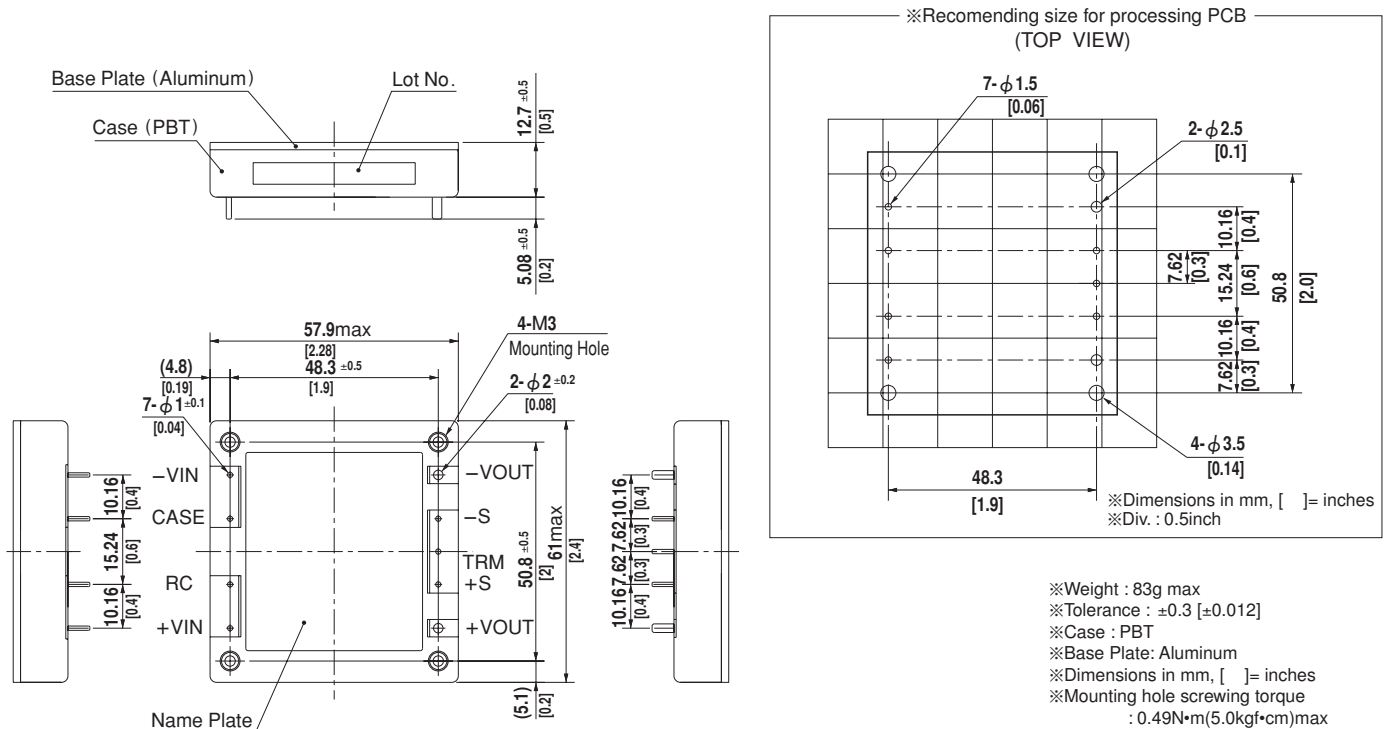
*2 Ripple and ripple noise is measured by using measuring board with recommended capacitor Co & the film capacitor 0.1 μ F.

Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN:RM101).

*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 $^{\circ}$ C, with the input voltage held constant at the rated input/output.

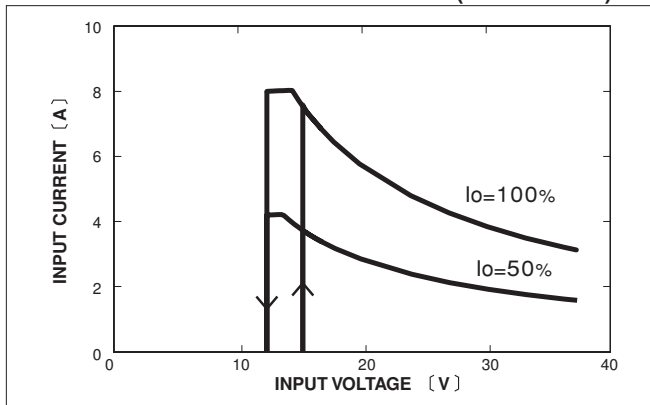
*4 When the input voltage is in the range of DC18 - 20V, DC36 - 40V output voltage adjustment range is 60 - 105% (except for 1R8/2R5).

External view



Performance data

INPUT CURRENT CHARACTERISTICS (CBS1002428)



INPUT CURRENT CHARACTERISTICS (CBS1004828)

