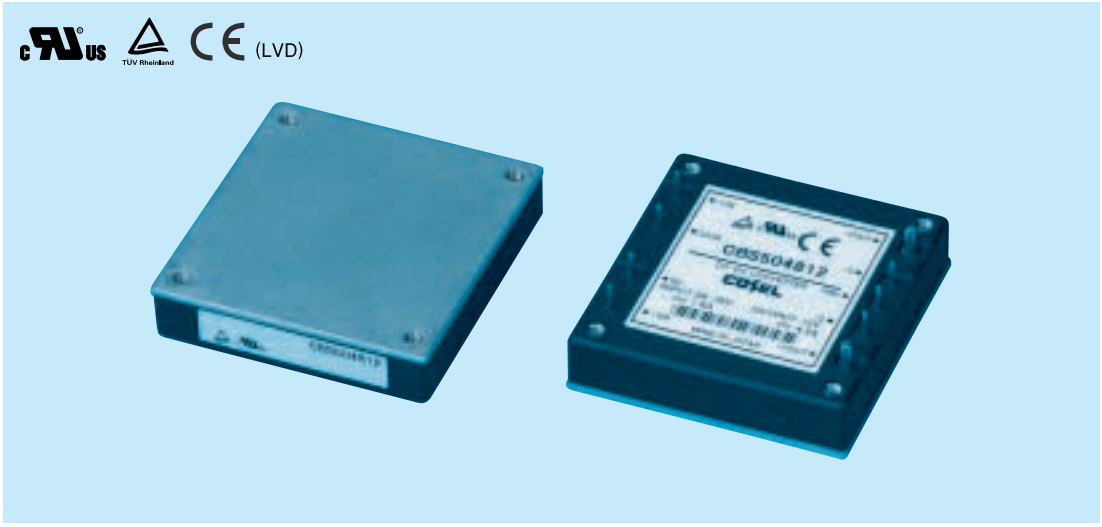
COSEL **Power module type**

CBS50

Ordering information

CB	S	50	48	12	-□
①	②	③	④	⑤	⑧



①Series name
②Single output
③Output wattage
④Input voltage
48 :DC36 - 76V
⑤Output voltage
⑥Optional
R :with Remote ON/OFF
Positive logic control
T :with Mounting hole
ϕ3.4 thru

MODEL	CBS504803	CBS504805	CBS504812	CBS504815	CBS504824	CBS504828
MAX OUTPUT WATTAGE[W]	38.6	50.0	50.4	51.0	50.4	50.4
DC OUTPUT	3.3V 11.7A	5V 10A	12V 4.2A	15V 3.4A	24V 2.1A	28V 1.8A

SPECIFICATIONS

	MODEL		CBS504803	CBS504805	CBS504812	CBS504815	CBS504824	CBS504828
INPUT	VOLTAGE[V]		DC36 - 76					
	CURRENT[A]	*1	1.01typ	1.23typ	1.18typ	1.21typ	1.19typ	1.19typ
	EFFICIENCY[%]	*1	80typ	85typ	89typ	88typ	88typ	88typ
OUTPUT	VOLTAGE[V]		3.3	5	12	15	24	28
	CURRENT[A]		11.7	10	4.2	3.4	2.1	1.8
	LINE REGULATION[mV]		10max	10max	24max	30max	48max	56max
	LOAD REGULATION[mV]		10max	10max	24max	30max	48max	56max
	RIPPLE[mVp-p]	-20 to +100℃ *2	80max	80max	120max	120max	120max	120max
		-40 to -20℃ *2	120max	120max	150max	150max	150max	150max
	RIPPLE NOISE[mVp-p]	-20 to +100℃ *2	120max	120max	150max	150max	150max	150max
		-40 to -20℃ *2	200max	200max	200max	200max	250max	250max
	TEMPERATURE REGULATION[mV]	0 to +65℃	35max	50max	120max	150max	240max	280max
		-40 to +100℃	66max	100max	240max	300max	480max	560max
	DRIFT[mV]	*3	16max	20max	40max	60max	90max	90max
	START-UP TIME[ms]		200max (DCIN 48V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	*4	Fixed (TRM pin open), 60 - 110% adjustable by external resister					
		*4	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]		3.25 - 3.45	4.90 - 5.20	11.74 - 12.46	14.55 - 15.45	23.28 - 24.72	27.16 - 28.84
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION[V]		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 ligic L : ON, H : OFF)					
ISOLATION	INPUT-OUTPUT		DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min(20±15℃)					
	INPUT-CASE PIN, BASE PLATE		DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min(20±15℃)					
	OUTPUT-CASE PIN, BASE PLATE		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)					
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-40 to +100℃ (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℃, 20 - 95%RH (Non condensing), 9,000m (30,000feet) max					
	VIBRATION		10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis					
SAFETY	AGENCY APPROVALS		UL60950, C-UL, EN60950					
OTHERS	CASE SIZE/WEIGHT		57.9×12.7×61.0mm (W×H×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(DC48V) and rated load.
*2 Ripple and ripple noise is measured by using measuring board with recommended capacitor Co & the film capacitor 0.1μF.
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℃, with the input voltage held constant at the rated input/output.
*4 When the input voltage is in the range of DC36 - 40V, output voltage adjustment range is 60 - 105%.