

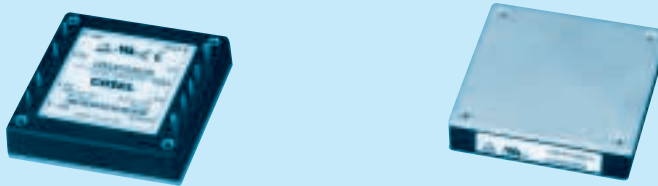
CBS450

CB S 450 48 28 - □

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional
 - R :with Remote ON/OFF
Positive logic control
 - T :with Mounting hole
φ 3.4 thru



MODEL	CBS4504824	CBS4504828	CBS4504832
MAX OUTPUT WATTAGE[W]	456	448	400
DC OUTPUT	24V 19A	28V 16A	32V 12.5A

SPECIFICATIONS

	MODEL	CBS4504824	CBS4504828	CBS4504832	
INPUT	VOLTAGE[V]	DC38 - 60	DC36 - 76	DC36 - 76	
	CURRENT[A]	*1 10.6typ	10.5typ	9.3typ	
	EFFICIENCY[%]	*1 90typ	91typ	91typ	
OUTPUT	VOLTAGE[V]	24	28	32	
	CURRENT[A]	19	16	12.5	
	LINE REGULATION[mV]	48max	56max	64max	
	LOAD REGULATION[mV]	48max	56max	64max	
	RIPPLE[mVp-p]	-20 to +100°C *2	180max	210max	210max
		-40 to -20°C *2	220max	260max	260max
		0 to 15%Load *2	360max	430max	430max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *2	220max	260max	260max
		-40 to -20°C *2	280max	330max	330max
		0 to 15%Load *2	440max	520max	520max
	TEMPERATURE REGULATION[mV]	0 to +65°C	240max	280max	280max
		-40 to +100°C	480max	560max	560max
	DRIFT[mV]	*3 90max	90max	120max	
START-UP TIME[ms]	200max (DCIN 48V, I _o =100%)				
OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *4	Fixed (TRM pin open), adjustable by external resistor				
	19.2 - 26.0	16.8 - 32.2	25.6 - 35.2		
OUTPUT VOLTAGE SETTING[V] *4	23.52 - 24.48	27.44 - 28.56	31.36 - 32.64		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
	OVERVOLTAGE PROTECTION[V]	27.60 - 33.60	32.20 - 39.20	36.80 - 44.80	
	REMOTE SENSING	Provided			
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)			
ISOLATION	INPUT-OUTPUT	DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min(20±15°C)			
	INPUT-BASE PLATE	DC1,500V or AC1,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min(20±15°C)			
	OUTPUT-BASE PLATE	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)			
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100°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°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	57.9×12.7×61.0mm [2.28×0.5×2.4 inches] (W×H×D) / 83g max			
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)			

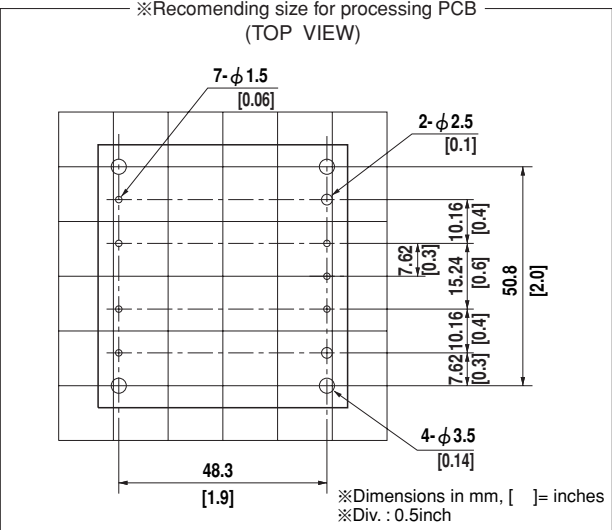
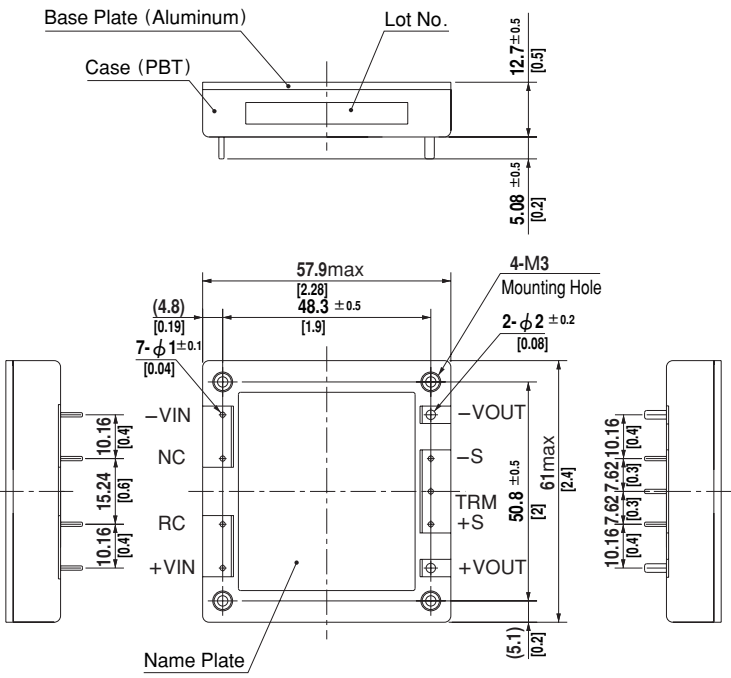
*1 At rated input(DC48V), rated load, and aluminum base plate temperature 25°C.

*2 Ripple and ripple noise is measured by using measuring board with recommended capacitor Co & the film capacitor 0.1 μF. Refer to the manual.

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

*4 Refer to the manual for the input range.

External view



- ※Weight : 83g max
- ※Tolerance : ±0.3 [±0.012]
- ※Case : PBT
- ※Base Plate: Aluminum
- ※Dimensions in mm, []= inches
- ※Mounting hole screwing torque : 0.49N•m(5.0kgf•cm)max