

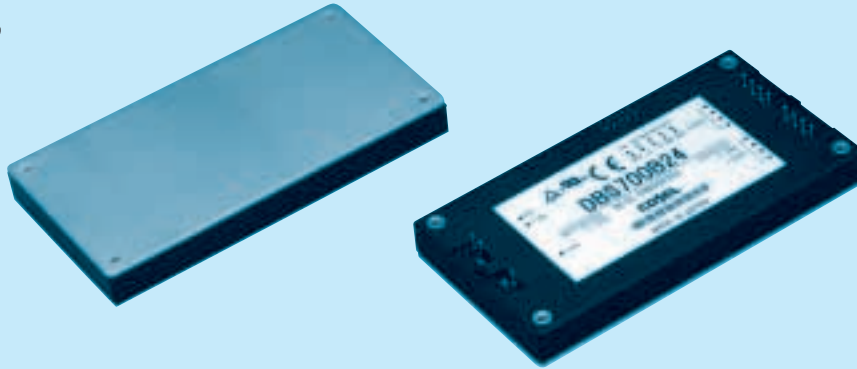
DBS700B

DB S 700 B 28

① ② ③ ④ ⑤



RoHS



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage
B : DC200 - 400V
- ⑤ Output voltage

MODEL	DBS700B12	DBS700B24	DBS700B28	DBS700B36	DBS700B48
MAX OUTPUT WATTAGE[W]	696	696	700	702	696
DC OUTPUT	12V 58A	24V 29A	28V 25A	36V 19.5A	48V 14.5A

SPECIFICATIONS

	MODEL	DBS700B12	DBS700B24	DBS700B28	DBS700B36	DBS700B48	
INPUT	VOLTAGE[V]	DC200 - 400					
	CURRENT[A]	*1 2.76typ	2.76typ	2.76typ	2.76typ	2.73typ	
	EFFICIENCY[%]	*1 90.0typ	90.0typ	90.5typ	90.0typ	91.0typ	
OUTPUT	VOLTAGE[V]	12	24	28	36	48	
	CURRENT[A]	58	29	25	19.5	14.5	
	LINE REGULATION[mV]	40max	95max	95max	95max	120max	
	LOAD REGULATION[mV]	100max	190max	190max	200max	240max	
	RIPPLE[mVp-p]	0 to +100°C	120max	120max	120max	150max	200max
		-40 to 0°C	160max	160max	160max	200max	250max
	RIPPLE NOISE[mVp-p]	0 to +100°C	150max	150max	150max	200max	250max
		-40 to 0°C	180max	180max	180max	240max	400max
	TEMPERATURE REGULATION[mV]	0 to +65°C	120max	280max	280max	360max	480max
		-40 to +100°C	200max	480max	480max	680max	960max
DRIFT[mV]	*3 40max	90max	90max	120max	180max		
START-UP TIME[ms]	200max (DCIN 280V, Io=100%)						
OUTPUT VOLTAGE ADJUSTMENT RANGE	*4 Fixed (TRM pin open), 60 - 110% adjustable by external VR or external voltage						
OUTPUT VOLTAGE SETTING[V]	11.64 - 12.36	23.28 - 24.72	27.16 - 28.84	34.92 - 37.08	46.56 - 49.44		
OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically						
OVERVOLTAGE PROTECTION	13.80 - 16.80V	27.60 - 33.60V	32.20 - 39.20V	41.40 - 50.40V	55.20 - 63.00V		
REMOTE SENSING	Provided						
REMOTE ON/OFF	Provided (On both side of input and output)						
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)					
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)					
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)					
	OUTPUT-RC2,RC3	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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 , 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT	196.1m/s ² , 11ms once each along X, Y and Z axis					
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1, EN50178					
OTHERS	CASE SIZE/WEIGHT	61 × 12.7 × 116.8mm [2.4 × 0.5 × 4.6 inches] (W×H×D) / 180g max					
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)					

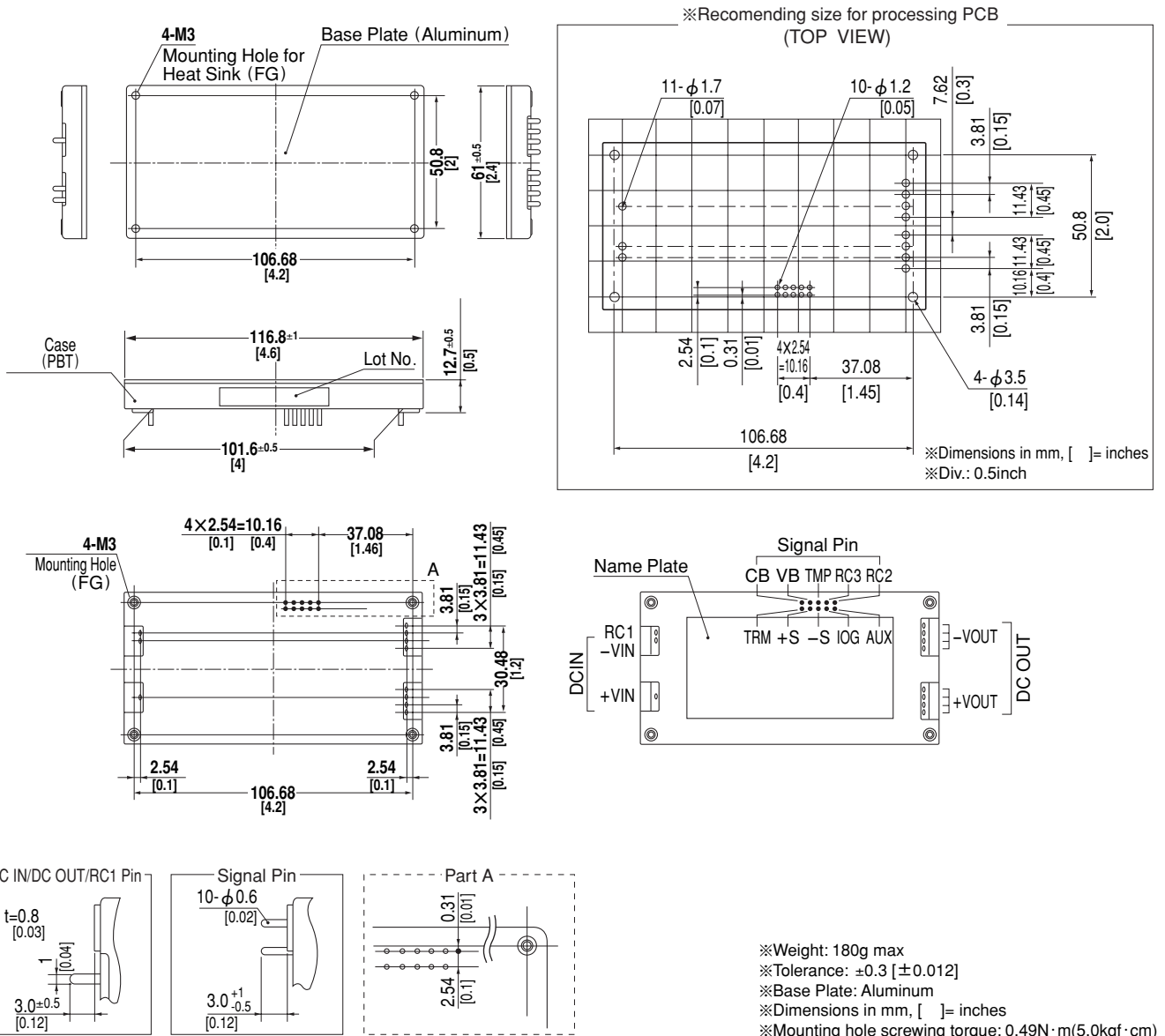
*1 At rated input(DC280V) and rated load.

*2 Ripple and ripple noise is measured by using measuring board with the 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.

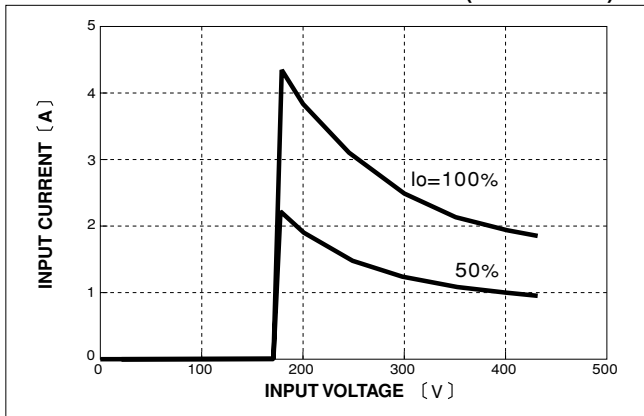
*4 Refer to the manual for the input range.

External view



Performance data

INPUT CURRENT CHARACTERISTICS (DBS700B28)



EFFICIENCY CHARACTERISTICS (DBS700B28)

