

SNDBS700B

SNDB S 700 B 28

① ② ③ ④ ⑤



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

* Please set short-pieces with 2-3 pins of CN8, when you do not use ENA. Refer to the manual.

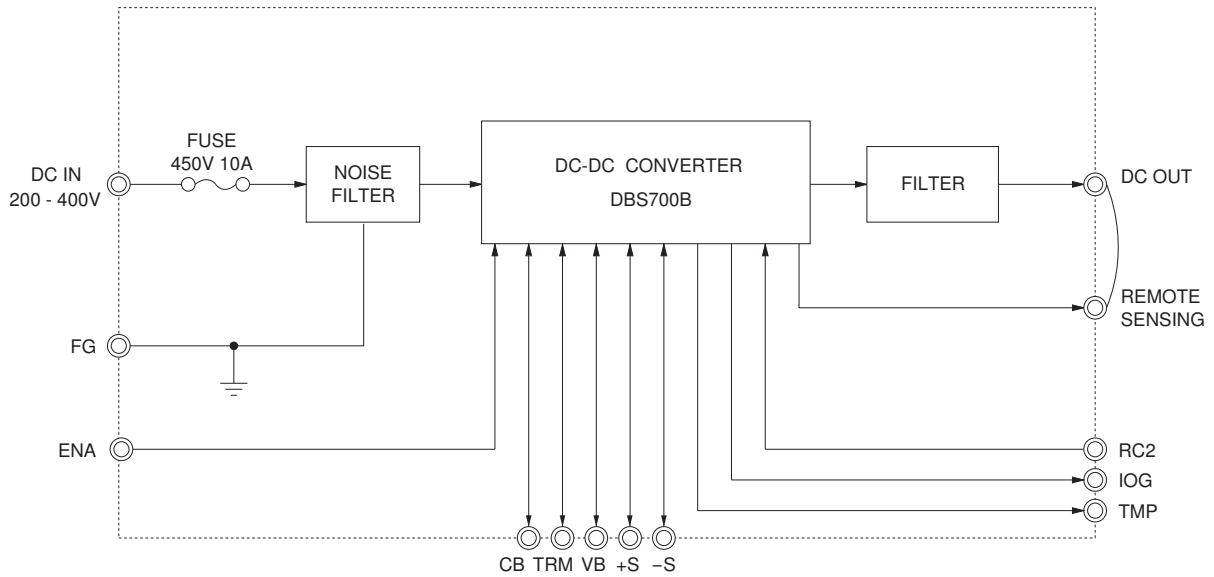
MODEL	SNDBS700B12	SNDBS700B24	SNDBS700B28	SNDBS700B36	SNDBS700B48
MAX OUTPUT WATTAGE[W]	696	696	700	702	696
DC OUTPUT	12V 58A	24V 29A	28V 25A	36V 19.5A	48V 14.5A

SPECIFICATIONS

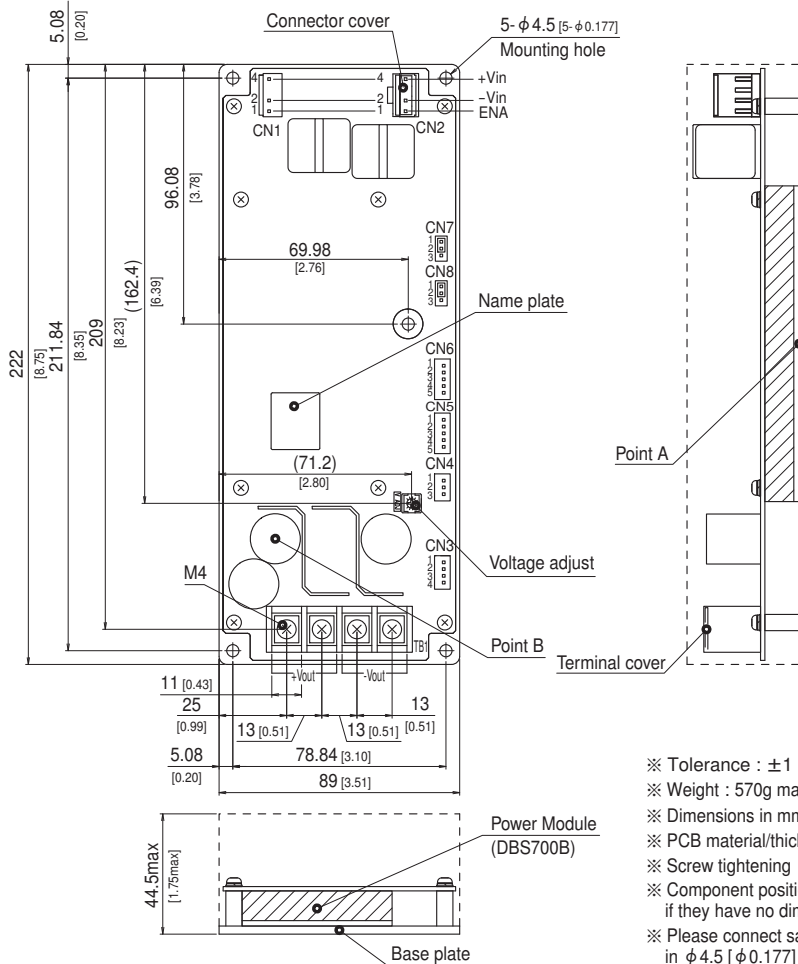
	MODEL	SNDBS700B12	SNDBS700B24	SNDBS700B28	SNDBS700B36	SNDBS700B48	
INPUT	VOLTAGE[V]	DC200 - 400					
	CURRENT[A]	*1 2.76typ	2.76typ	2.76typ	2.76typ	2.73typ	
	EFFICIENCY[%]	*1 90.0typ	90.0typ	90.5typ	90.0typ	91.0typ	
OUTPUT	VOLTAGE[V]	12	24	28	36	48	
	CURRENT[A]	58	29	25	19.5	14.5	
	LINE REGULATION[mV]	40max	95max	95max	95max	120max	
	LOAD REGULATION[mV]	150max	190max	190max	200max	240max	
	RIPPLE[mVp-p]	0 to +95°C *2	120max	120max	120max	150max	200max
		-20 to 0°C *2	160max	160max	160max	200max	250max
	RIPPLE NOISE[mVp-p]	0 to +95°C *2	200max	200max	200max	200max	250max
		-20 to 0°C *2	280max	280max	280max	280max	400max
	TEMPERATURE REGULATION[mV]	0 to +65°C	120max	280max	280max	360max	480max
		-20 to +95°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[V]	*4 10.80 - 13.20	21.60 - 26.40	25.20 - 30.80	32.40 - 39.60	43.20 - 52.80		
OUTPUT VOLTAGE SETTING[V]	*1 11.64 - 12.36	23.28 - 24.72	27.16 - 28.84	34.92 - 37.08	46.56 - 49.44		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION[V]	13.80 - 16.80	27.60 - 33.60	32.20 - 39.20	41.40 - 50.40	55.20 - 63.00	
	REMOTE SENSING	Provided					
	REMOTE ON/OFF	Provided (On both side of input 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)					
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-20 to +95°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max					
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +95°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max					
	VIBRATION	10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT	196.1m/s ² (20G), 11ms, once each along X, Y and Z axis					
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1					
OTHERS	CASE SIZE/WEIGHT	89×44.5×222mm [3.51×1.75×8.75 inches] (W×H×D) / 570g 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 Refer to Instruction manual for the measuring method of an electrical property.
 *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.

Block diagram



External view



- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 570g max
- ※ Dimensions in mm, []=inches
- ※ PCB material/thickness : FR-4 / 1.6mm [0.06]
- ※ Screw tightening torque : $1.6\text{N} \cdot \text{m}$ (16.9kgf · cm) max
- ※ Component positions and sizes are for your reference if they have no dimensions.
- ※ Please connect safety ground to the base plate in $\phi 4.5$ [$\phi 0.177$] hole.
- ※ The following parts are attached at shipping from factory
 - CN2 : Housing for protection
 - CN3 : Short-pieces for without remote sensing
 - CN7, CN8 : Short-piece for setting
- ※ Keep drawing current per pin below 7A for CN1/CN2.