

# SNDBS400B

SNDB S 400 B 03

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	SNDBS400B03	SNDBS400B05	SNDBS400B07	SNDBS400B12	SNDBS400B15	SNDBS400B18	SNDBS400B24	SNDBS400B28
MAX OUTPUT WATTAGE[W]	264	400	405	408	405	396	408	406
DC OUTPUT	3.3V 80A	5V 80A	7.5V 54A	12V 34A	15V 27A	18V 22A	24V 17A	28V 14.5A

## SPECIFICATIONS

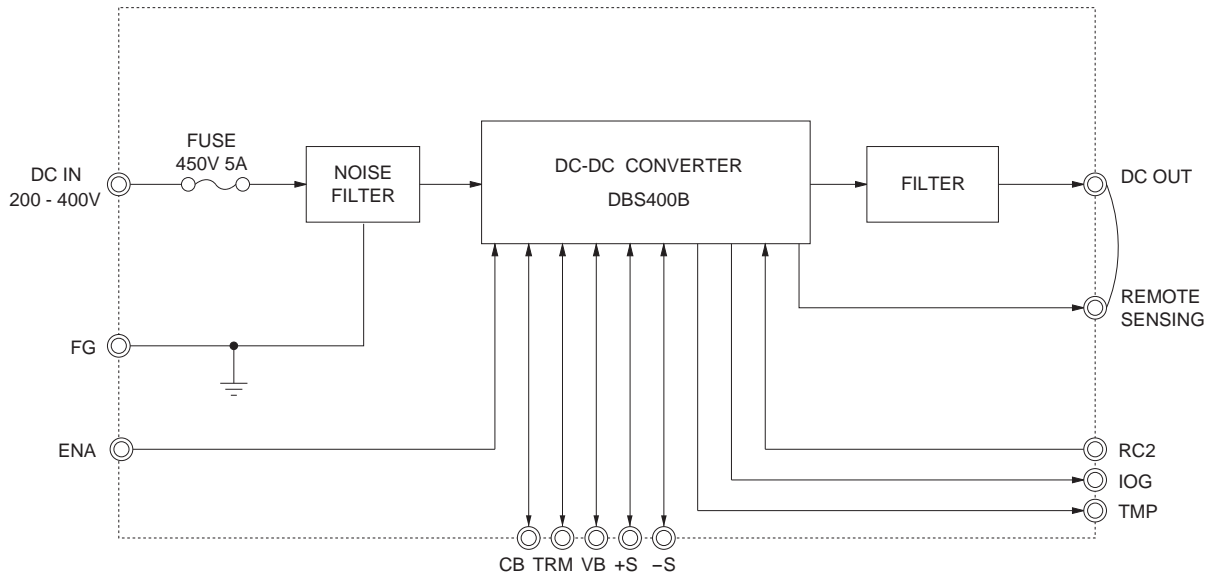
	MODEL	SNDBS400B03	SNDBS400B05	SNDBS400B07	SNDBS400B12	SNDBS400B15	SNDBS400B18	SNDBS400B24	SNDBS400B28	
INPUT	VOLTAGE[V]	DC200 - 400								
	CURRENT[A]	*1 1.19typ	1.72typ	1.68typ	1.67typ	1.66typ	1.61typ	1.67typ	1.63typ	
	EFFICIENCY[%]	*1 79typ	83typ	86typ	87typ	87typ	89typ	87typ	88typ	
OUTPUT	VOLTAGE[V]	3.3	5	7.5	12	15	18	24	28	
	CURRENT[A]	80	80	54	34	27	22	17	14.5	
	LINE REGULATION[mV]	16max	20max	30max	40max	60max	60max	95max	95max	
	LOAD REGULATION[mV]	150max	150max	150max	150max	150max	150max	190max	190max	
	RIPPLE[mVp-p]	0 to +80°C *2	80max	80max	100max	120max	120max	120max	120max	120max
		-20 to 0°C *2	140max	140max	150max	160max	160max	160max	160max	160max
	RIPPLE NOISE[mVp-p]	0 to +80°C *2	160max	160max	200max	200max	200max	200max	200max	200max
		-20 to 0°C *2	250max	250max	280max	280max	280max	280max	280max	280max
	TEMPERATURE REGULATION[mV]	0 to +65°C	35max	50max	75max	120max	180max	180max	280max	280max
		-20 to +80°C	60max	85max	130max	200max	310max	310max	480max	480max
DRIFT[mV]	*3	16max	20max	30max	40max	60max	60max	90max	90max	
START-UP TIME[ms]	200max (DCIN 280V, Io=100%)									
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	2.97 - 3.63	4.50 - 5.50	6.75 - 8.25	10.80 - 13.20	13.50 - 16.50	16.20 - 19.80	21.60 - 26.40	25.20 - 30.80		
OUTPUT VOLTAGE SETTING[V]	3.25 - 3.45	4.90 - 5.20	7.25 - 7.85	11.60 - 12.60	14.40 - 15.60	17.28 - 18.72	23.04 - 24.96	26.88 - 29.12		
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	8.60 - 10.50	13.80 - 16.80	17.25 - 21.00	20.70 - 25.20	27.60 - 33.60	32.20 - 39.20	
	REMOTE SENSING	Provided								
	REMOTE ON/OFF	Provided (Input side : ENA, Output side : RC2)								
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 +80°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 +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max								
	VIBRATION	10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis								
	IMPACT	196.1m/s <sup>2</sup> (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.

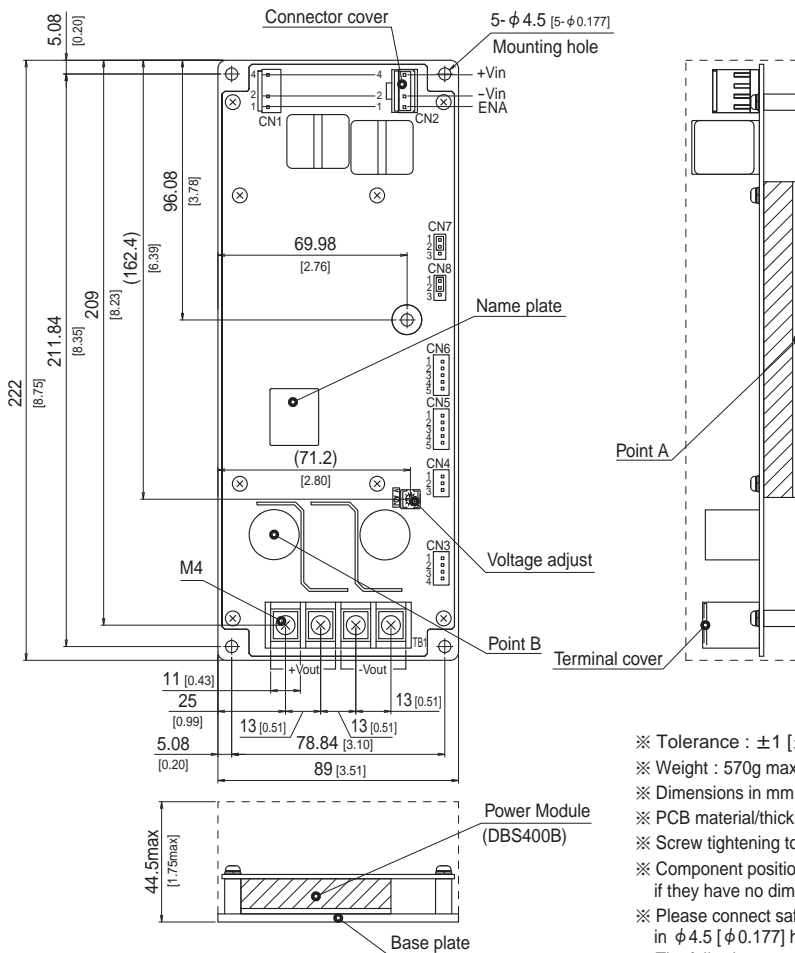
\*2 Refer to Instruction manual for the measuring method of an electrical property.

\*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.

## Block diagram



## External view

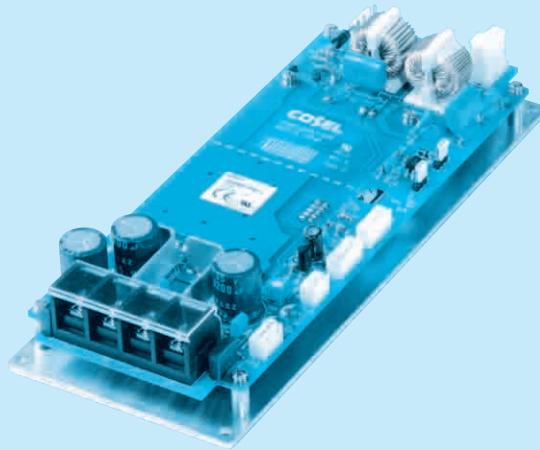


- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 570g max
- ※ Dimensions in mm, [ ]=inches
- ※ PCB material/thickness : FR-4 / 1.6mm [0.06]
- ※ Screw tightening torque :  $1.6N \cdot m$  (16.9kgf · cm)max
- ※ Component positions and sizes are for your reference if they have no dimensions.
- ※ Please 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.

# 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.

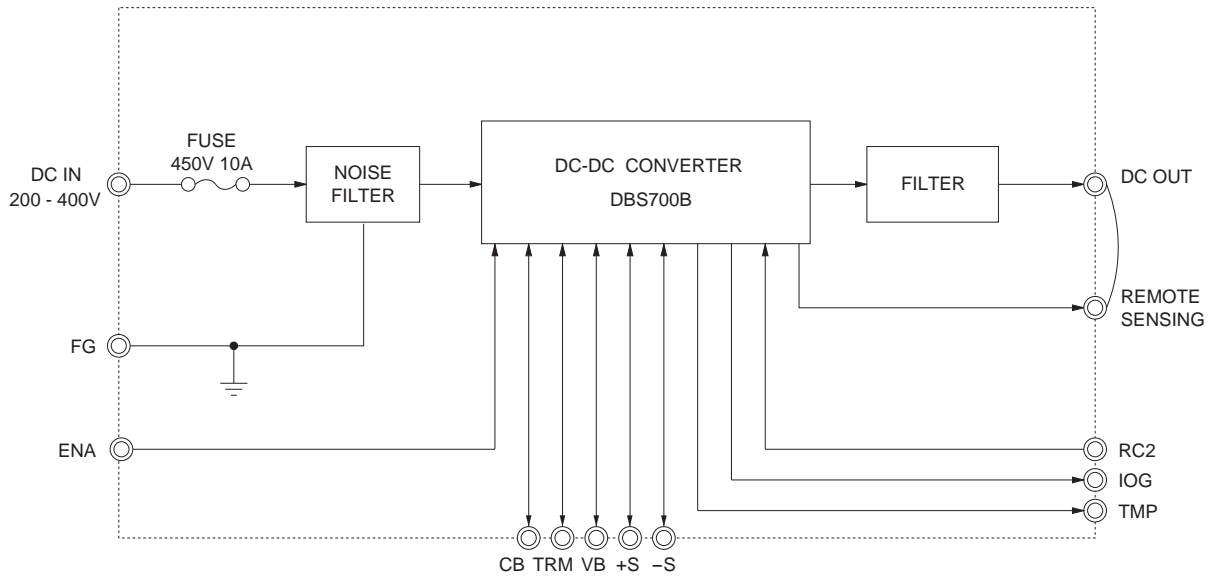
MODEL	SNDBS700B12	SNDBS700B24	SNDBS700B28	SNDBS700B36	SNDBS700B48
MAX OUTPUT WATTAGE[W]	696	696	700	702	696
DC OUTPUT	12V 58A	24V 29A	28V 25A	36V 19.5A	48V 14.5A

## SPECIFICATIONS

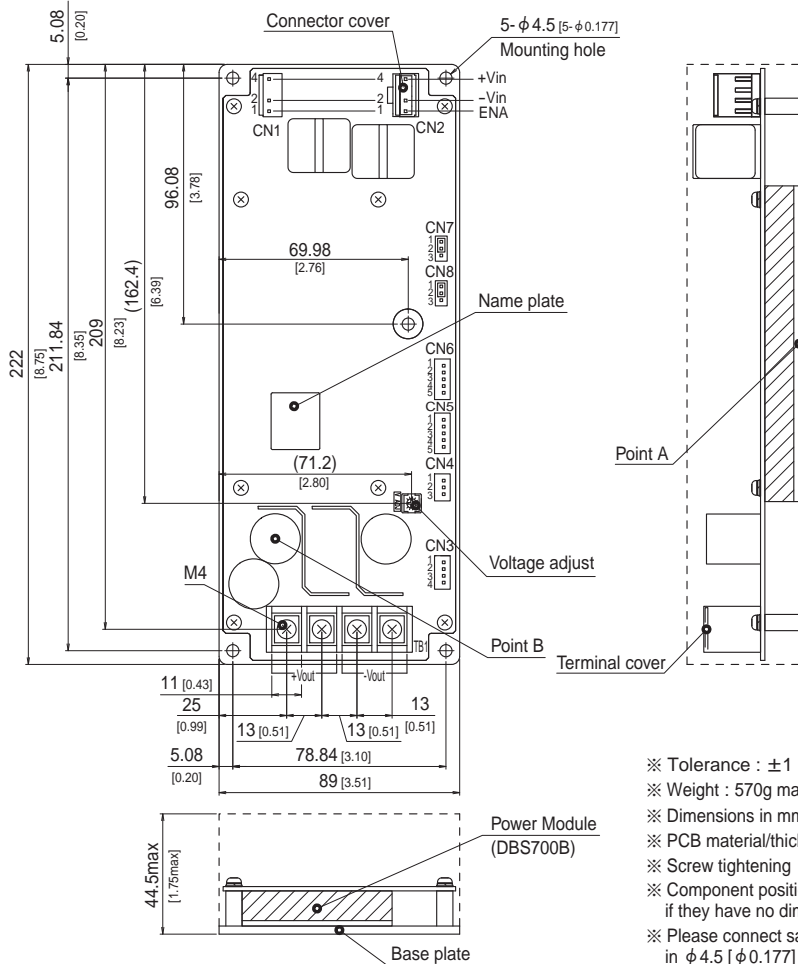
	MODEL	SNDBS700B12	SNDBS700B24	SNDBS700B28	SNDBS700B36	SNDBS700B48	
INPUT	VOLTAGE[V]	DC200 - 400					
	CURRENT[A]	*1 2.76typ	2.76typ	2.76typ	2.76typ	2.73typ	
	EFFICIENCY[%]	*1 90.0typ	90.0typ	90.5typ	90.0typ	91.0typ	
OUTPUT	VOLTAGE[V]	12	24	28	36	48	
	CURRENT[A]	58	29	25	19.5	14.5	
	LINE REGULATION[mV]	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 <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT	196.1m/s <sup>2</sup> (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 :  $\pm 1$  [ $\pm 0.04$ ]
- ※ 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Isolated DC/DC Converters](#) category:*

*Click to view products by [Cosel](#) manufacturer:*

Other Similar products are found below :

[ESM6D044440C05AAQ](#) [FMD15.24G](#) [PSL486-7LR](#) [Q48T30020-NBB0](#) [JAHW100Y1](#) [SPB05C-12](#) [SQ24S15033-PS0S](#) [18952](#) [19-130041](#)  
[CE-1003](#) [CE-1004](#) [GQ2541-7R](#) [RDS180245](#) [MAU228](#) [J80-0041NL](#) [DFC15U48D15](#) [XGS-0512](#) [XGS-1205](#) [XGS-1212](#) [XGS-2412](#) [XGS-](#)  
[2415](#) [XKS-1215](#) [06322](#) [NCT1000N040R050B](#) [SPB05B-15](#) [SPB05C-15](#) [L-DA20](#) [DCG40-5G](#) [QME48T40033-PGB0](#) [XKS-2415](#) [XKS-2412](#)  
[XKS-1212](#) [XKS-1205](#) [XKS-0515](#) [XKS-0505](#) [XGS-2405](#) [XGS-1215](#) [XGS-0515](#) [PS9Z-6RM4](#) [73-551-5038I](#) [AK1601-9RT](#) [VI-N61-CM](#) [VI-](#)  
[R5022-EXWW](#) [PSC128-7iR](#) [RPS8-350ATX-XE](#) [DAS1004812](#) [PQA30-D24-S24-DH](#) [VI-M5F-CQ](#) [VI-LN2-EW](#) [VI-PJW01-CZY](#)