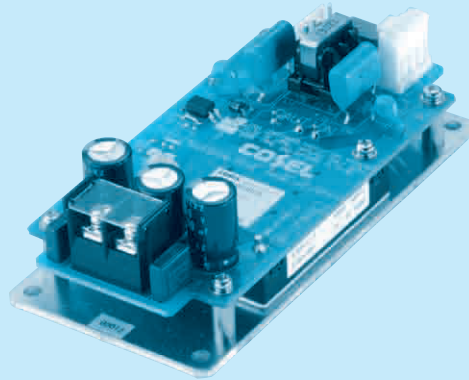


SNDHS50B

SNDH S 50 B 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ B : DC200-400V
- ⑤ Output voltage
- ⑥ Optional
- C : with Coating
- R : with a function not to need external power source

MODEL	SNDHS50B03	SNDHS50B05	SNDHS50B12	SNDHS50B15	SNDHS50B24	SNDHS50B28
MAX OUTPUT WATTAGE[W]	33.0	50.0	50.4	51.0	50.4	50.4
DC OUTPUT	3.3V 10A	5V 10A	12V 4.2A	15V 3.4A	24V 2.1A	28V 1.8A

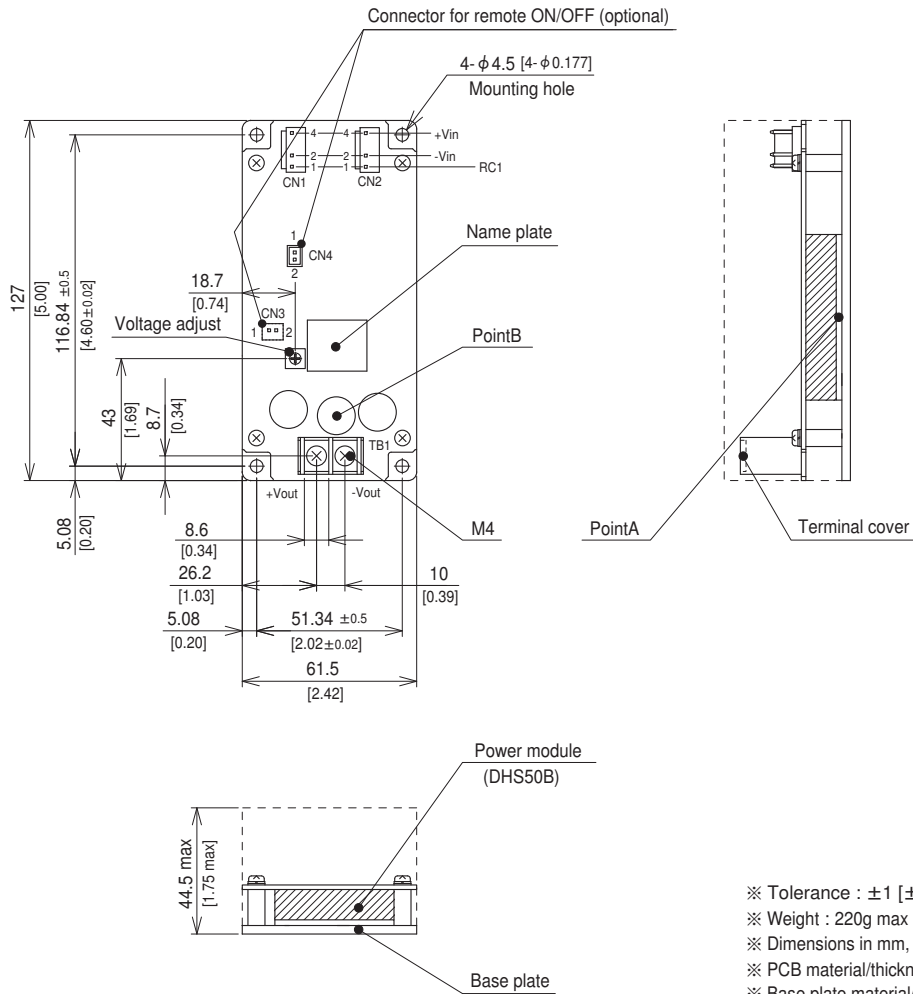
SPECIFICATIONS

	MODEL	SNDHS50B03	SNDHS50B05	SNDHS50B12	SNDHS50B15	SNDHS50B24	SNDHS50B28	
INPUT	VOLTAGE[V]	DC200 - 400 (Prepare another power supply to the RC1 terminal *)						
	CURRENT[A]	*1 0.15typ	0.22typ	0.22typ	0.22typ	0.22typ	0.22typ	
	EFFICIENCY[%]	*1 76.0typ	79.0typ	82.0typ	82.0typ	82.0typ	82.0typ	
OUTPUT	VOLTAGE[V]	3.3	5	12	15	24	28	
	CURRENT[A]	10	10	4.2	3.4	2.1	1.8	
	LINE REGULATION[mV]	10max	10max	24max	30max	48max	56max	
	LOAD REGULATION[mV]	150max	150max	100max	100max	100max	100max	
	RIPPLE[mVp-p]	0 to +95°C *2	80max	80max	120max	120max	120max	120max
		-20 to 0°C *2	120max	120max	150max	150max	150max	150max
		0 to 15% Load *2	160max	160max	240max	240max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +95°C *2	160max	160max	200max	200max	200max	200max
		-20 to 0°C *2	250max	250max	280max	280max	280max	280max
		0 to 15% Load *2	300max	300max	300max	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50°C	35max	50max	120max	150max	240max	280max
		-20 to +95°C	66max	100max	240max	300max	480max	560max
	DRIFT[mV]	*3 16max	20max	40max	60max	90max	90max	
	START-UP TIME[ms]	200max (DCIN 280V, Io=100%)						
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	*4 2.97 - 3.63	4.50 - 5.50	10.80 - 13.20	13.50 - 16.50	21.60 - 26.40	25.20 - 30.80		
OUTPUT VOLTAGE SETTING[V]	3.30 - 3.40	5.00 - 5.15	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	28.00 - 29.12		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically						
	OVERVOLTAGE PROTECTION[V]	4.20 - 5.70	6.30 - 7.60	13.90 - 17.55	17.25 - 21.75	27.60 - 34.80	32.20 - 40.60	
	REMOTE SENSING	None						
	REMOTE ON/OFF (RC1)	*6 Provided (Logic H : ON, L :OFF) Required external power source						
ISOLATION	INPUT-OUTPUT, RC2	*8 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, RC2-FG	*8 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)						
	OUTPUT-RC2	*8 AC100V 1minute, Cutoff current = 25mA, DC100V 10MΩ min (20±15°C)						
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	*7 -20 to +95°C (Aluminum base plate of the power module), 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	61.5×44.5×127mm [2.42×1.75×5.0 inches] (W×H×D) / 220g 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 capacitor of 22 μF at 150mm [5.91 inches] from output terminal.
 Refer to the instruction manual 3.2.
 *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 instruction manual 4.6.
 *5 Refer to the instruction manual 2, 4.4

*6 Refer to the instruction manual 4.4
 *7 Refer to the instruction manual 6.2
 *8 "RC2" is applicable to an option not to need external power source.

External view



- ※ Tolerance : ± 1 [± 0.04]
- ※ Weight : 220g max
- ※ Dimensions in mm, []=inches
- ※ PCB material/thickness : FR-4 / 1.6mm [0.06]
- ※ Base plate material/thickness : Alminum / 3.0mm[0.12]
- ※ Screw tightening torque : 1.6N · 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 ϕ 4.5 [ϕ 0.177] hole.