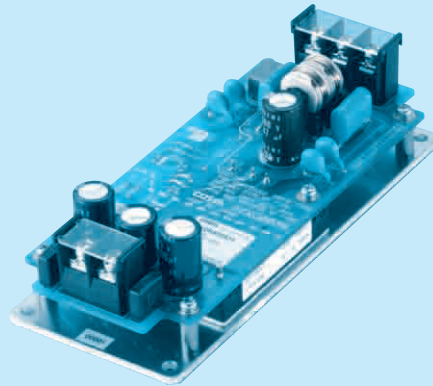


# SNDHS50A

SNDH S 50 A 05 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ A : DC60-160V
- ⑤ Output voltage
- ⑥ Optional
- C : with Coating
- R : with Remote ON/OFF

Please refer to Instruction manual 7.

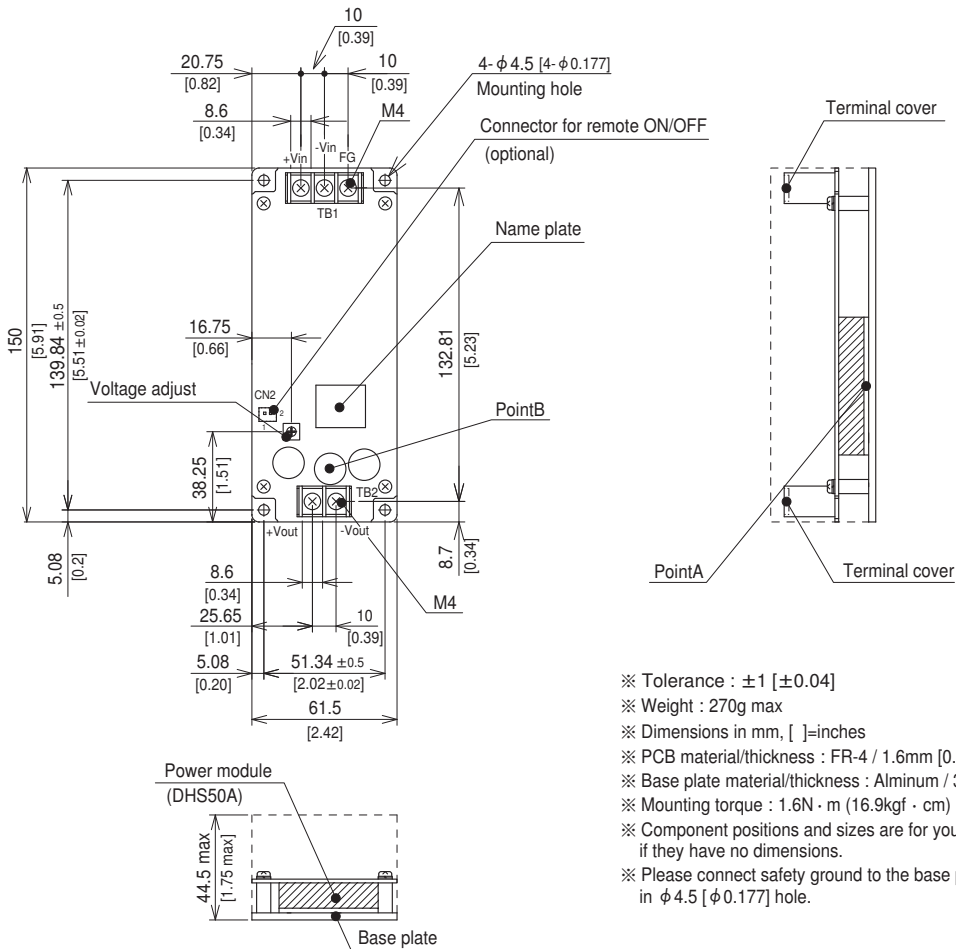
MODEL	SNDHS50A05	SNDHS50A12	SNDHS50A15	SNDHS50A24
MAX OUTPUT WATTAGE[W]	50.0	50.4	51.0	50.4
DC OUTPUT	5V 10A	12V 4.2A	15V 3.4A	24V 2.1A

## SPECIFICATIONS

	MODEL	SNDHS50A05	SNDHS50A12	SNDHS50A15	SNDHS50A24	
INPUT	VOLTAGE[V]	DC60 - 160				
	CURRENT[A]	*1 0.55typ	0.55typ	0.55typ	0.55typ	
	EFFICIENCY[%]	*1 83.0typ	85.0typ	85.0typ	85.0typ	
OUTPUT	VOLTAGE[V]	5	12	15	24	
	CURRENT[A]	10	4.2	3.4	2.1	
	LINE REGULATION[mV]	10max	24max	30max	48max	
	LOAD REGULATION[mV]	150max	100max	100max	100max	
	RIPPLE[mVp-p]	0 to +95°C *2	80max	120max	120max	120max
		-20 to 0°C *2	120max	150max	150max	150max
		0 to 15% Load *2	160max	240max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +95°C *2	160max	200max	200max	200max
		-20 to 0°C *2	250max	280max	280max	280max
		0 to 15% Load *2	300max	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max	150max	240max
		-20 to +95°C	100max	240max	300max	480max
	DRIFT[mV]	*3	20max	40max	60max	90max
START-UP TIME[ms]	200max (DCIN 110V, Io=100%)					
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	*4	4.50 - 5.50	10.80 - 13.20	13.50 - 16.50	21.60 - 26.40	
OUTPUT VOLTAGE SETTING[V]		5.00 - 5.15	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION[V]	6.30 - 7.60	13.90 - 17.55	17.25 - 21.75	27.60 - 34.80	
	REMOTE SENSING	None				
	REMOTE ON/OFF (RC)	Optional (Required external power source)				
ISOLATION	INPUT-OUTPUT, RC	*5	AC3,000V 1minute, Cutoff current = 15mA, DC500V 50MΩ min (20±15°C)			
	INPUT-FG		AC2,000V 1minute, Cutoff current = 15mA, DC500V 50MΩ min (20±15°C)			
	OUTPUT, RC-FG	*5	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)			
	OUTPUT-RC	*5	AC100V 1minute, Cutoff current = 25mA, DC100V 10MΩ min (20±15°C)			
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	*6	-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 <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				
	CONDUCTED NOISE (at only DC input)	Complies with FCC-A, VCCI-A, CISPR22-A, EN55011-A, EN55022-A				
OTHERS	CASE SIZE/WEIGHT	61.5 X 44.5 X 150mm [2.42 X 1.75 X 5.91 inches] (W X H X D) / 270g max				
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)				

- \*1 At rated input(DC110V) 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 Applicable when remote control (optional) is added.
- \*6 Refer to the instruction manual 6.2.

External view



- ※ Tolerance :  $\pm 1$  [ $\pm 0.04$ ]
- ※ Weight : 270g max
- ※ Dimensions in mm, [ ]=inches
- ※ PCB material/thickness : FR-4 / 1.6mm [0.06]
- ※ Base plate material/thickness : Alminum / 3.0mm[0.12]
- ※ Mounting 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  $\phi 4.5$  [ $\phi 0.177$ ] hole.