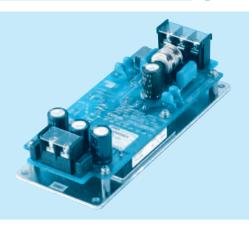
SNDHS50A

50 A 05 SNDH S

SNDHS50A15





SNDHS50A05

Series name
 Single output
 Output wattage

(4) A : DC60-160V ⑤Output voltage

SNDHS50A24

®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	

SNDHS50A12

SPECIFICATIONS

MODEL

	INIODEL		SINDIGOUAUS	SINDHSSUATZ	SINDIGOUATO	SNDHS50AZ4			
	VOLTAGE[V]		DC60 - 160						
INPUT	CURRENT[A]	*1	0.55typ	0.55typ	0.55typ	0.55typ			
	EFFICIENCY[%]	*1	83.0typ	85.0typ	85.0typ	85.0typ			
	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			
		0 to +95℃ *2	80max	120max	120max	120max			
	RIPPLE[mVp-p]	-20 to 0°C *2	120max	150max	150max	150max			
		0 to 15% Load *2	160max	240max	240max	240max			
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +95℃ *2	160max	200max	200max	200max			
OUIFUI		-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℃	100max	240max	300max	480max			
	DRIFT[mV]	*3	20max	40max	60max	90max			
	START-UP TIME[ms]		200max (DCIN 110V, Io=10	0%)					
	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			
	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically						
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	6.30 - 7.60	13.90 - 17.55	17.25 - 21.75	27.60 - 34.80			
OTHERS	REMOTE SENSING		None						
	REMOTE ON/OFF (R	(C)	Optional (Required external power source)						
	INPUT-OUTPUT, RC	*5	AC3,000V 1minute, Cutoff current = 15mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff of	current = 15mA, DC500V 50N	1Ω min (20±15℃)				
1002/11/01	OUTPUT, RC-FG	*5	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)						
	OUTPUT-RC	*5	AC100V 1minute, Cutoff current = 25mA, DC100V 10M Ω min (20±15 $^{\circ}$ C)						
	OPERATING TEMP.,HUMID.AND A		-20 to +95°C (Aluminum base plate	of the power module), 20 - 95%RH (N	Non condensing) (Refer to DERATING	G CURVE), 3,000m (10,000 feet) max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	, ,	Non condensing), 9,000m (30	· · · · · · · · · · · · · · · · · · ·				
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3i	minutes period, 60minutes ea	ach along X, Y and Z axis				
	IMPACT			ce each along X, Y and Z axis					
SAFETY	AGENCY APPROVA		UL60950-1, C-UL, EN60950						
	CONDUCTED NOISE (at only		· · · · · · · · · · · · · · · · · · ·	I-A, CISPR22-A, EN55011-A					
OTHERS	CASE SIZE/WEIGHT		-	<1.75 × 5.91 inches] (W × H ×	, ,				
	COOLING METHOD		Conduction cooling (e.g. hea	at radiation from the aluminur	m base plate to the attached	heat sink)			

SNDHS-2

 $Ripple \ and \ ripple \ noise \ is \ measured \ by \ using \ measuring \ board \ with \ capacitor \ of \ 22 \ \mu \ F \ at \ 150 \ mm \ [5.91 \ inches] \ from \ output \ terminal.$ Refer to the instruction manual 3.2.

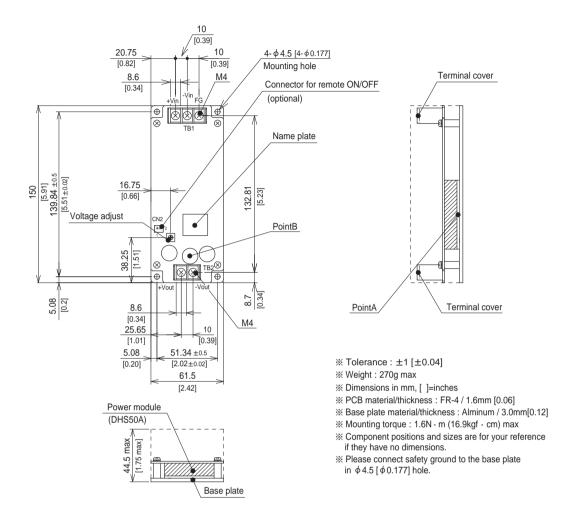
Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

Refer to the instruction manual 4.6.

Applicable when remote control (optional) is added. Refer to the instruction manual 6.2.





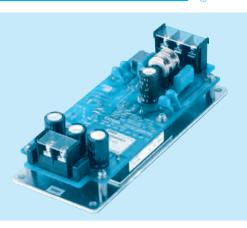


SNDHS100A

100 A 5 SNDH S

SNDHS100A15





SNDHS100A05

Series name
 Single output
 Output wattage

(4) A : DC60-160V

⑤Output voltage

SNDHS100A24

®Optional
 C : with Coating
 R : with Remote ON/OFF

Please refer to Instruction manual 7.

MODEL	SNDHS100A05	SNDHS100A12	SNDHS100A15	SNDHS100A24
MAX OUTPUT WATTAGE[W]	100.0	100.8	100.5	100.8
DC OUTPUT	5V 20A	12V 8.4A	15V 6.7A	24V 4.2A

SNDHS100A12

SPECIFICATIONS

MODEL

	MODEL		0.1.2.1.0.100.100						
	VOLTAGE[V]		DC60 - 160			<u> </u>			
INPUT	CURRENT[A]	*1	1.1typ	1.1typ	1.1typ	1.1typ			
	EFFICIENCY[%]	*1	84.0typ	87.0typ	87.0typ	87.0typ			
	VOLTAGE[V]		5	12	15	24			
	CURRENT[A]		20	8.4	6.7	4.2			
	LINE REGULATION[mV]		10max	24max	30max	48max			
	LOAD REGULATION	[mV]	150max	100max	100max	100max			
		0 to +95℃ *2	80max	120max	120max	120max			
	RIPPLE[mVp-p]	-20 to 0°C *2	120max	150max	150max	150max			
		0 to 15% Load *2	160max	240max	240max	240max			
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +95℃ *2	160max	200max	200max	200max			
0011 01		-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			
	TELLI ETUTOTE TEODESTON	-20 to +95℃	100max	240max	300max	480max			
	DRIFT[mV]	*3	20max	40max	60max	90max			
	START-UP TIME[ms]		200max (DCIN 110V, Io=10	0%)					
	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			
DDOTECTION	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically						
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTE	CTION[V]	6.30 - 7.60	13.90 - 17.55	17.25 - 21.75	27.60 - 34.80			
OTHERS	REMOTE SENSING		None						
	REMOTE ON/OFF (R	(C)	Optional (Required external power source)						
	INPUT-OUTPUT, RC	*5	AC3,000V 1minute, Cutoff current = 15mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 15mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)						
	OUTPUT, RC-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)						
	OUTPUT-RC		AC100V 1minute, Cutoff cur						
	OPERATING TEMP.,HUMID.AND A		` '			G CURVE), 3,000m (10,000 feet) max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE	, ,	Non condensing), 9,000m (3	· · · · · · · · · · · · · · · · · · ·				
				Bminutes period, 60minutes e					
	IMPACT AGENCY APPROVA	16	UL60950-1. C-UL. EN60950	ce each along X, Y and Z axis	5				
SAFETY	CONDUCTED NOISE (at only		, ,	^{ט-1} I-A, CISPR22-A, EN55011-A	EN55022-A				
	CASE SIZE/WEIGHT			K1.75 X 5.91 inches] (W X H >					
OTHERS	COOLING METHOD		•		m base plate to the attached	hoat sink)			
	COOLING WE I HOD		Conduction cooling (e.g. nea	at radiation nom the aluminu	in base plate to the attached	ileat siilk)			

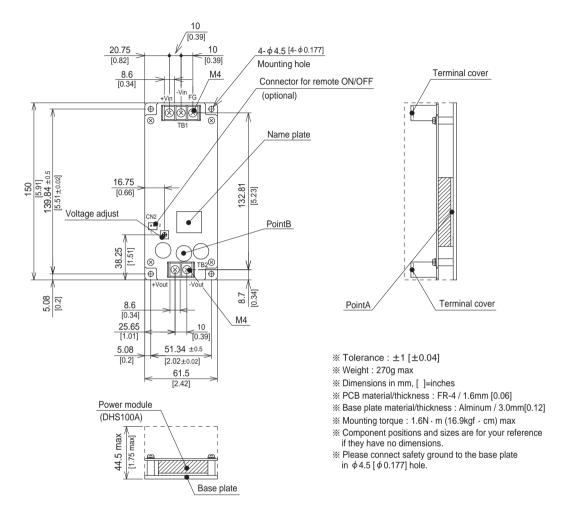
 $Ripple \ and \ ripple \ noise \ is \ measured \ by \ using \ measuring \ board \ with \ capacitor \ of \ 22 \ \mu \ F \ at \ 150 \ mm \ [5.91 \ inches] \ from \ output \ terminal.$ Refer to the instruction manual 3.2.

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.

Refer to the instruction manual 4.6.

Applicable when remote control (optional) is added. Refer to the instruction manual 6.2.





SNDHS200A

200 A § SNDH S

SNDHS200A15



eco



SNDHS200A05

Series name
 Single output
 Output wattage

(A) A: DC60-160V ⑤Output voltage

SNDHS200A24

®Optional
 C : with Coating
 R : with Remote ON/OFF

Please refer to Instruction manual 7.

MODEL	SNDHS200A05	SNDHS200A12	SNDHS200A15	SNDHS200A24
MAX OUTPUT WATTAGE[W]	200.0	200.4	201.0	201.6
DC OUTPUT	5V 40A	12V 16.7A	15V 13.4A	24V 8.4A

SNDHS200A12

SPECIFICATIONS

MODEL

	INIODEL		SNDHSZUUAUS	SNURSZUUATZ	SNDHSZUUATS	SNDH3200A24					
	VOLTAGE[V]		DC60 - 160								
INPUT	CURRENT[A]	*1	2.1typ	2.1typ	2.1typ	2.1typ					
	EFFICIENCY[%]	*1	87.0typ	87.0typ	87.0typ	87.0typ					
	VOLTAGE[V]		5	12	15	24					
	CURRENT[A]		40	16.7	13.4	8.4					
	LINE REGULATION[mV]	10max	24max	30max	48max					
	LOAD REGULATION[mV]		150max	100max	100max	100max					
		0 to +95℃ *2	80max	120max	120max	120max					
	RIPPLE[mVp-p]	-20 to 0°C *2	120max	150max	150max	150max					
		0 to 15% Load *2	160max	240max	240max	240max					
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +95℃ *2	160max	200max	200max	200max					
OUIFUI		-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℃	100max	240max	300max	480max					
	DRIFT[mV] *3		20max	40max	60max	90max					
	START-UP TIME[ms]		200max (DCIN 110V, Io=10	0%)							
	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	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically								
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	6.30 - 7.60	13.90 - 16.35	17.25 - 20.25	27.60 - 32.40					
OTHERS	REMOTE SENSING		Provided								
	REMOTE ON/OFF (R	(C)	Optional (Required external power source)								
	INPUT-OUTPUT, RC	*5	AC3,000V 1minute, Cutoff of	current = 15mA, DC500V 50N	1Ω min (20±15℃)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 15mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)								
	OUTPUT, RC-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)								
	OUTPUT-RC		1	· · · · · · · · · · · · · · · · · · ·	,						
	OPERATING TEMP.,HUMID.AND A		` '		• • • • • • • • • • • • • • • • • • • •	G CURVE), 3,000m (10,000 feet) max					
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	, ,	Non condensing), 9,000m (30	<u>'</u>						
	VIBRATION		, , , , , , , , , , , , , , , , , , , ,	minutes period, 60minutes ea	0 /						
	IMPACT			ce each along X, Y and Z axis	i						
SAFETY	AGENCY APPROVA		UL60950-1, C-UL, EN60950								
	CONDUCTED NOISE (at only		· · · · · · · · · · · · · · · · · · ·	I-A, CISPR22-A, EN55011-A	•						
OTHERS	CASE SIZE/WEIGHT		•	<1.75×5.91 inches](W×H×	, ,						
	COOLING METHOD		Conduction cooling (e.g. hea	at radiation from the aluminur	m base plate to the attached	heat sink)					
				_ ======== (===========================							

At rated input(DC110V) and rated load.

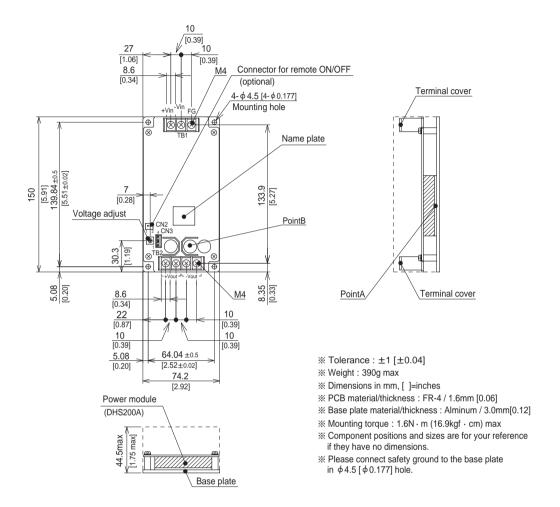
Refer to the instruction manual 3.2.

Ripple and ripple noise is measured by using measuring board with capacitor of 22 µF at 150mm [5.91 inches] from output terminal.

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. Refer to the instruction manual 4.6.

Applicable when remote control (optional) is added. Refer to the instruction manual 6.2.

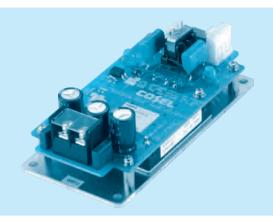




SNDHS50B

50 SNDH S





SNDHS50B03

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

SNDHS50B28

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

SNDHS50B12

SNDHS50B15

SNDHS50B24

SNDHS50B05

SPECIFICATIONS

MODEL

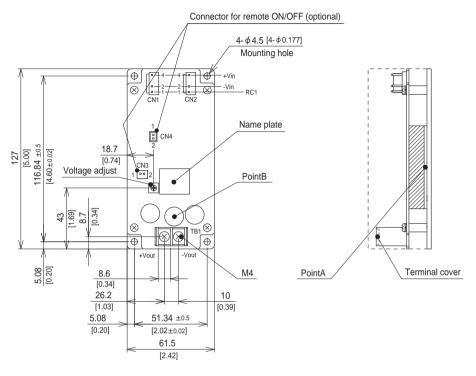
			0	0.121.000200	0.120002.2	0.121.0002.0	0.12.100022.	0		
	VOLTAGE[V]		DC200 - 400 (Pre	pare another power	supply to the RC1	terminal *5)				
INPUT	CURRENT[A]	*1	0.15typ	0.22typ	0.22typ	0.22typ	0.22typ	0.22typ		
	EFFICIENCY[%]	*1	76.0typ	79.0typ	82.0typ	82.0typ	82.0typ	82.0typ		
	VOLTAGE[V]		3.3	5	12	15	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		
		0 to +95°C *2	80max	80max	120max	120max	120max	120max		
	RIPPLE[mVp-p]	-20 to 0°C *2	120max	120max	150max	150max	150max	150max		
		0 to 15% Load *2	160max	160max	240max	240max	240max	240max		
CUITDUIT		0 to +95℃ *2	160max	160max	200max	200max	200max	200max		
OUTPUT	RIPPLE NOISE[mVp-p]	-20 to 0°C *2	250max	250max	280max	280max	280max	280max		
		0 to 15% Load *2	300max	300max	300max	300max	300max	300max		
	TEMPERATURE REQUIRATIONSVI	0 to +50℃	35max	50max	120max	150max	240max	280max		
	TEMPERATURE REGULATION[mV]	-20 to +95℃	66max	100max	240max	300max	480max	560max		
	DRIFT[mV]	*3	16max	20max	40max	60max	90max	90max		
	START-UP TIME[ms]		200max (DCIN 28	0V, 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		
	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically							
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[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		
OTHERS	REMOTE SENSING		None							
	REMOTE ON/OFF (R	(C1) *6	Provided (Logic H : ON, L :OFF) Required external power source							
	INPUT-OUTPUT, RC2	2 *8	AC3,000V 1minut	e, Cutoff current = 1	10mA, DC500V 50N	<i>I</i> Ω min (20±15℃)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)							
ISOLATION	OUTPUT, RC2-FG	*8	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)							
	OUTPUT-RC2	*8	AC100V 1minute,	Cutoff current = 25	mA, DC100V 10M9	Ω min (20±15℃)				
	OPERATING TEMP., HUMID.AND A	LTITUDE *7	-20 to +95°C (Aluminur	n base plate of the powe	r module), 20 - 95%RH (Non condensing) (Refer	to DERATING CURVE),	3,000m (10,000 feet) max		
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +95°C, 20 -	95%RH (Non cond	lensing), 9,000m (3	0,000 feet) max				
LIA A IKO INIVIEN I	VIBRATION		10 - 55Hz, 19.6m/	s² (2G), 3minutes p	eriod, 60minutes e	ach along X, Y and	Z axis			
	IMPACT		196.1m/s² (20G),	11ms, once each a	ong X, Y and Z axis	3				
SAFETY	AGENCY APPROVA	LS	UL60950-1, C-UL	, EN60950-1						
OTHERS	CASE SIZE/WEIGHT		61.5×44.5×127r	nm [2.42×1.75×5	.0 inches] (W×H×	D) / 220g max				
UI II EKS	COOLING METHOD		Conduction coolin	g (e.g. heat radiation	n from the aluminu	m base plate to the	attached heat sink)		
	· · · · · · · · · · · · · · · · · · ·									

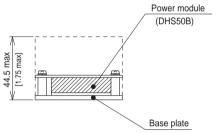
- At rated input(DC280V) and rated load.
- Ripple and ripple noise is measured by using measuring board with capacitor of 22 μ F at 150mm [5.91 inches] from output terminal. Refer to the instruction manual 3.2.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output. Refer to the instruction manual 4.6.
- Refer to the instruction manual 2, 4.4

- Refer to the instruction manual 4.4 Refer to the instruction manual 6.2
- "RC2" is applicable to an option not to need external power source.

SNDHS-8







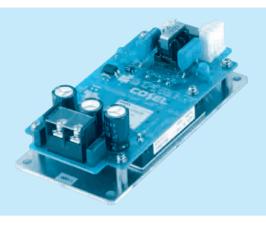
- * Tolerance : ±1 [±0.04]
- ※ Weight : 220g max
- ※ PCB material/thickness: FR-4 / 1.6mm [0.06]
- Base plate material/thickness : Alminum / 3.0mm[0.12]
- Screw tightening torque: 1.6N ⋅ m (16.9kgf ⋅ cm) max
- Component positions and sizes are for your reference if they have no dimensions.
- * Please connect safety ground to the base plate in φ4.5 [φ0.177] hole.

| SNDHS100B03 | SNDHS100B05 | SNDHS100B12 | SNDHS100B15 | SNDHS100B24 | SNDHS100B28

SNDHS100B

100 SNDH S





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

MODEL	SNDHS100B03	SNDHS100B05	SNDHS100B12	SNDHS100B15	SNDHS100B24	SNDHS100B28
MAX OUTPUT WATTAGE[W]	66.0	100.0	100.8	100.5	100.8	100.8
DC OUTPUT	3.3V 20A	5V 20A	12V 8.4A	15V 6.7A	24V 4.2A	28V 3.6A

SPECIFICATIONS

MODEL

	WODEL		311003100003	SINDUSTUUDUS	31100012	3110113110113	3NDH3100B24	SNUHSTOODZO		
	VOLTAGE[V]		DC200 - 400 (Pre	pare another power	supply to the RC1	terminal *5)	•			
INPUT	CURRENT[A]	*1	0.30typ	0.44typ	0.42typ	0.42typ	0.42typ	0.42typ		
	EFFICIENCY[%]	*1	78.0typ	81.0typ	84.0typ	85.0typ	85.0typ	85.0typ		
	VOLTAGE[V]		3.3	5	12	15	24	28		
	CURRENT[A]		20	20	8.4	6.7	4.2	3.6		
	LINE REGULATION[mV]		10max	10max	24max	30max	48max	56max		
	LOAD REGULATION[mV]		150max	150max	100max	100max	100max	100max		
		0 to +95℃ *2	80max	80max	120max	120max	120max	120max		
	RIPPLE[mVp-p]	-20 to 0°C *2	120max	120max	150max	150max	150max	150max		
		0 to 15% Load *2	160max	160max	240max	240max	240max	240max		
		0 to +95℃ *2	160max	160max	200max	200max	200max	200max		
DUTPUT	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV]	-20 to 0°C *2	250max	250max	280max	280max	280max	280max		
		0 to 15% Load *2	300max	300max	300max	300max	300max	300max		
		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 28	0V, 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		
	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically							
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[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		
OTHERS	REMOTE SENSING		None							
	REMOTE ON/OFF (R	C1) *6	Provided (Logic H : ON, L :OFF) Required external power source							
	INPUT-OUTPUT, RC2	2 *8	AC3,000V 1minute	e, Cutoff current = 1	10mA, DC500V 50N	IΩ min (20±15℃)				
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)							
SOLATION	OUTPUT, RC2-FG	*8	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)							
	OUTPUT-RC2	*8	AC100V 1minute,	Cutoff current = 25	mA, DC100V 10M	2 min (20±15℃)				
	OPERATING TEMP., HUMID.AND A	LTITUDE *7	-20 to +95°C (Aluminun	n base plate of the power	r module), 20 - 95%RH (l	Non condensing) (Refer t	to DERATING CURVE), 3	3,000m (10,000 feet) n		
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +95°C, 20 -	95%RH (Non cond	ensing), 9,000m (3	0,000 feet) max				
-14 AUCOMINITIA I	VIBRATION		10 - 55Hz, 19.6m/	s² (2G), 3minutes p	period, 60minutes e	ach along X, Y and	Z axis			
	IMPACT		196.1m/s² (20G),	11ms, once each al	ong X, Y and Z axis	3				
SAFETY	AGENCY APPROVA	LS	UL60950-1, C-UL	EN60950-1						
OTHERS	CASE SIZE/WEIGHT		61.5×44.5×127n	nm [2.42×1.75×5.	0 inches] (WXHX	D) / 220g max				
JIHERO	COOLING METHOD		Conduction coolin	g (e.g. heat radiatio	n from the aluminu	m base plate to the	attached heat sink)		

- Ripple and ripple noise is measured by using measuring board with capacitor of 22 µ F at 150mm [5.91 inches] from output terminal.
- Refer to the instruction manual 3.2. 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.
- Refer to the instruction manual 4.6.
- Refer to the instruction manual 2, 4.4

- "RC2" is applicable to an option not to need external power source.

SNDHS-10

SNDHS

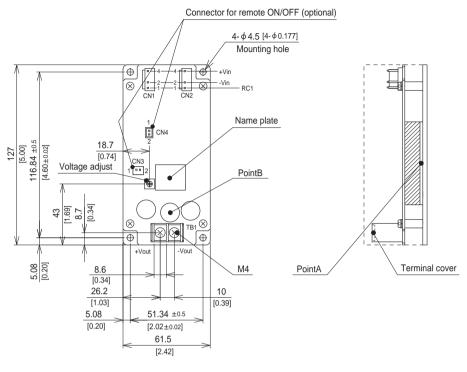
At rated input(DC280V) and rated load.

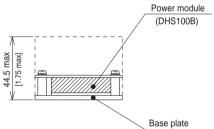
Refer to the instruction manual 4.4

August 11, 2015

Refer to the instruction manual 6.2







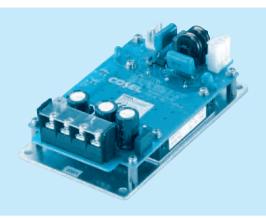
- ※ Tolerance : ±1 [±0.04]
- ※ Weight : 220g max
- ※ Dimensions in mm, []=inches
- ※ PCB material/thickness : FR-4 / 1.6mm [0.06]
- Base plate material/thickness: Alminum / 3.0mm[0.12]
- Screw tightening torque: 1.6N ⋅ m (16.9kgf ⋅ cm) max
- * Component positions and sizes are for your reference
- if they have no dimensions.
 ※ Please connect safety ground to the base plate in φ4.5 [φ0.177] hole.

SNDHS250B03 SNDHS250B05 SNDHS250B07 SNDHS250B12 SNDHS250B15 SNDHS250B24 SNDHS250B28 SNDHS250B48

SNDHS250B

250 SNDH S





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

MODEL	SNDHS250B03	SNDHS250B05	SNDHS250B07	SNDHS250B12	SNDHS250B15	SNDHS250B24	SNDHS250B28	SNDHS250B48
MAX OUTPUT WATTAGE[W]	165.0	250.0	247.5	252.0	247.5	252.0	252.0	249.6
DC OUTPUT	3.3V 50A	5V 50A	7.5V 33A	12V 21A	15V 16.5A	24V 10.5A	28V 9.0A	48V 5.2A

SPECIFICATIONS

MODEL

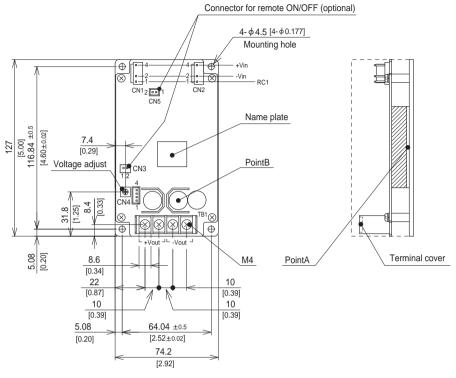
	WIODEL		CHDITOZOODOO	CHDITOZOODOO	ONDINOZOODO	3ND113230D12	ONDITIOE SUB TO	ONDITIO230D24	ONDINOZOODZO	ONDITIO230D40	
	VOLTAGE[V]		DC200 - 400	(Prepare anoth	ner power supp	ly to the RC1	erminal *5)				
INPUT	CURRENT[A]	*1	0.67typ	1.0typ	1.0typ	1.0typ	1.0typ	1.0typ	1.0typ	1.0typ	
	EFFICIENCY[%]	*1	86.0typ	88.0typ	86.0typ	86.0typ	86.0typ	86.0typ	86.0typ	87.0typ	
	VOLTAGE[V]		3.3	5	7.5	12	15	24	28	48	
	CURRENT[A]		50	50	33	21	16.5	10.5	9.0	5.2	
	LINE REGULATION[mV]	10max	10max	20max	24max	30max	48max	56max	96max	
	LOAD REGULATION	LOAD REGULATION[mV]		150max	150max	100max	100max	100max	100max	100max	
		0 to +95℃ *2	80max	80max	100max	120max	120max	120max	120max	200max	
	RIPPLE[mVp-p]	-20 to 0°C *2	120max	120max	130max	150max	150max	150max	150max	250max	
		0 to 15% Load *2	160max	160max	200max	240max	240max	240max	240max	400max	
OUTPUT		0 to +95℃ *2	160max	160max	200max	200max	200max	200max	200max	250max	
OUIPUI	RIPPLE NOISE[mVp-p]	-20 to 0°C *2	250max	250max	280max	280max	280max	280max	280max	400max	
		0 to 15% Load *2	300max	300max	300max	300max	300max	300max	300max	500max	
	TEMPERATURE REGULATION[mV]	0 to +50°C	35max	50max	70max	120max	150max	240max	280max	480max	
	TEMI ENATONE NEODEATION[IIV]	-20 to +95℃	66max	100max	140max	240max	300max	480max	560max	960max	
	DRIFT[mV] *3		16max	20max	30max	40max	60max	90max	90max	180max	
	START-UP TIME[ms]		200max (DCI	N 280V, Io=10	0%)						
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *4		2.97 - 3.63	4.50 - 5.50	6.75 - 8.25	10.80 - 13.20	13.50 - 16.50	21.60 - 26.40	25.20 - 30.80	43.20 - 52.80	
	OUTPUT VOLTAGE SETTING[V]		3.30 - 3.40	5.00 - 5.15	7.50 - 7.80	12.00 - 12.48	15.00 - 15.60	24.00 - 24.96	28.00 - 29.12	48.00 - 49.92	
	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically								
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	4.20 - 4.85	6.30 - 7.30	8.70 - 10.20	13.90 - 16.35	17.25 - 20.25	27.60 - 32.40	32.20 - 37.80	55.20 - 64.80	
OTHERS	REMOTE SENSING		Provided								
	REMOTE ON/OFF (R	C1) *6	Provided (Logic H : ON, L :OFF) Required external power source								
	INPUT-OUTPUT, RC2	2 *8	AC3,000V 1m	ninute, Cutoff o	urrent = 10mA	, DC500V 50M	Ω min (20±1	5℃)			
ISOLATION	INPUT-FG		AC2,000V 1m	ninute, Cutoff o	urrent = 10mA	, DC500V 50M	Ω min (20±1	5℃)			
IOOLATION	OUTPUT, RC2-FG	*8	AC500V 1mir	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)							
	OUTPUT-RC2	*8	AC100V 1mir	ute, Cutoff cur	rent = 25mA, I	OC100V 10MΩ	! min (20±15°	C)			
	OPERATING TEMP.,HUMID.AND A	LTITUDE *7	-20 to +95°C (Alu	minum base plate	of the power modu	le), 20 - 95%RH (N	Ion condensing) (R	Refer to DERATING	CURVE), 3,000m	(10,000 feet) max	
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +95℃,	20 - 95%RH (Non condensin	g), 9,000m (30	,000 feet) max	(
LIVINORMENT	VIBRATION		10 - 55Hz, 19	.6m/s² (2G), 3ı	minutes period	, 60minutes ea	ch along X, Y	and Z axis			
	IMPACT		196.1m/s² (20	G), 11ms, onc	e each along	K, Y and Z axis					
SAFETY	AGENCY APPROVA	LS	UL60950-1, C	C-UL, EN60950)-1						
OTHERS	CASE SIZE/WEIGHT		74.2×44.5×	127mm [2.92>	< 1.75 × 5.0 inc	hes](W×H×D) / 310g max				
OTTIENS	COOLING METHOD		Conduction c	ooling (e.g. hea	at radiation froi	m the aluminur	n base plate to	the attached h	neat sink)		

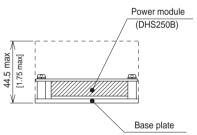
- At rated input(DC280V) and rated load.
- Ripple and ripple noise is measured by using measuring board with capacitor of 22 µ F at 150mm [5.91 inches] from output terminal.
- Refer to the instruction manual 3.2. Drift is the change in DC output for an eight hour period after a half-hour warm-up at $25\,^{\circ}\!\!\mathrm{C}$, with the input voltage held constant at the rated input/output.
- Refer to the instruction manual 4.6.
- Refer to the instruction manual 2, 4.4

- Refer to the instruction manual 6.2
- "RC2" is applicable to an option not to need external power source.

SNDHS-12







- % Tolerance : ±1 [±0.04]
- ※ Weight : 310g 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 $\phi 4.5 [\phi 0.177]$ hole.

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