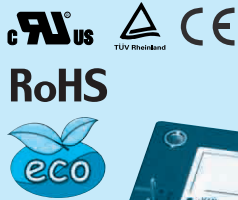
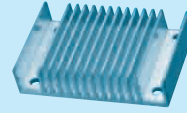


DHS50A**DH S 50 A 05 -□**

① ② ③ ④ ⑤ ⑥



*Providing heat sink
as option



- ① Series name
② Single output
③ Output wattage
④ A : DC60-160V
⑤ Output voltage
⑥ Optional
T : with Mounting hole
(ϕ 3.4 thru)

MODEL	DHS50A05	DHS50A12	DHS50A15	DHS50A24
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	DHS50A05	DHS50A12	DHS50A15	DHS50A24
INPUT	VOLTAGE[V]	DC60 - 160			
	CURRENT[A]	*1 0.55A	0.55A	0.55A	0.55A
	EFFICIENCY[%]	*1 84.0typ	86.0typ	86.0typ	86.0typ
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]	10max	24max	30max	48max
	RIPPLE[mVp-p]	0 to +100°C *2 80max	120max	120max	120max
		-40 to 0°C *2 120max	150max	150max	150max
		0 to 15% Load *2 160max	240max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100°C *2 120max	150max	150max	150max
		-40 to 0°C *2 200max	200max	200max	250max
		0 to 15% Load *2 240max	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65°C 50max	120max	150max	240max
		-40 to +100°C 100max	240max	300max	480max
	DRIFT[mV]	*3 20max	40max	60max	90max
	START-UP TIME[ms]	200max (DCIN 110V, Io=100%)			
PROTECTION CIRCUIT AND OTHERS	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external VR or external voltage			
		4.50 - 6.00	10.80 - 13.20	13.50 - 16.50	21.60 - 26.40
	OUTPUT VOLTAGE SETTING[V]	4.97 - 5.13	11.91 - 12.29	14.76 - 15.24	23.62 - 24.38
	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
ISOLATION	REMOTE SENSING	nothing			
	REMOTE ON/OFF	Provided (Negative Logic L : ON, H :OFF)			
	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15°C)			
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15°C)			
ENVIRONMENT	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20 $\pm$ 15°C)			
	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100°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	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max			
	VIBRATION	10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis Complies with IEC61373 Category 1 Class B			
SAFETY	IMPACT	196.1m/s ² (20G), 11ms, once each along X, Y and Z axis Complies with IEC61373 Category 1 Class B			
	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1			
OTHERS	CASE SIZE/WEIGHT	58.4 $\times$ 12.7 $\times$ 37.3mm [2.3 $\times$ 0.5 $\times$ 1.47 inches] (W $\times$ H $\times$ D) / 60g max			
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)			

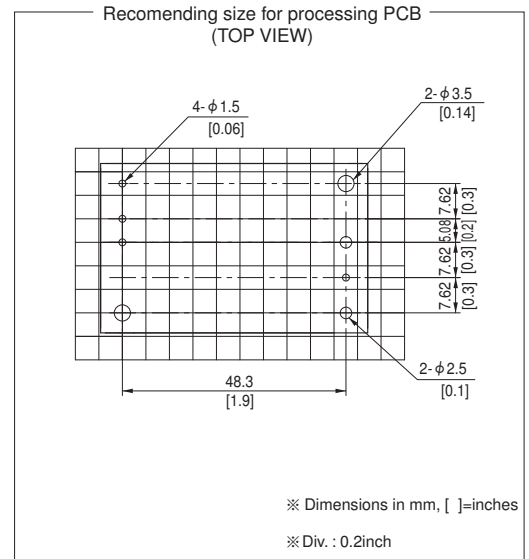
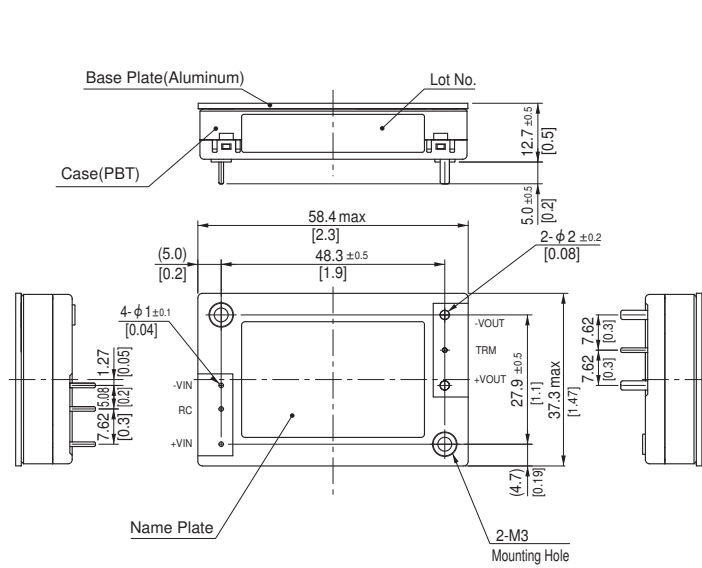
*1 At rated input(DC110V) and rated load.

*2 Ripple and ripple noise is measured by using measuring board. Refer to the manual

*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 input range.

External view



- ※ Tolerance : ± 0.3 [± 0.012]
- ※ Weight : 60g max
- ※ Dimensions in mm, []=inches
- ※ Mounting hole screwing torque : $0.49\text{N} \cdot \text{m}$ ($5.0\text{kgf} \cdot \text{cm}$) max