

DHS50A

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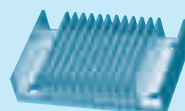
① ② ③ ④ ⑤ ⑧



RoHS



*Providing heat sink as option



- ① Series name
- ② Single output
- ③ Output wattage
- ④ A : DC60-160V
- ⑤ Output voltage
- ⑧ 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]	0.55A	0.55A	0.55A	0.55A
	EFFICIENCY[%]	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℃*2	80max	120max	120max
		-40 to 0℃*2	120max	150max	150max
		0 to 15% Load*2	160max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100℃*2	120max	150max	150max
		-40 to 0℃*2	200max	200max	250max
		0 to 15% Load*2	240max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65℃	50max	120max	150max
		-40 to +100℃	100max	240max	480max
	DRIFT[mV]	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			
	OUTPUT VOLTAGE SETTING[V]	4.50 - 6.00	10.80 - 13.20	13.50 - 16.50	21.60 - 26.40
	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	nothing			
ISOLATION	REMOTE ON/OFF	Provided (Negative Logic L : ON, H : OFF)			
	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)			
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)			
ENVIRONMENT	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)			
	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100℃ (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℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max			
	VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis Complies with IEC61373 Category 1 Class B			
SAFETY	IMPACT	196.1m/s² (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	58.4×12.7×37.3mm [2.3×0.5×1.47 inches] (W×H×D) / 60g max			
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)			

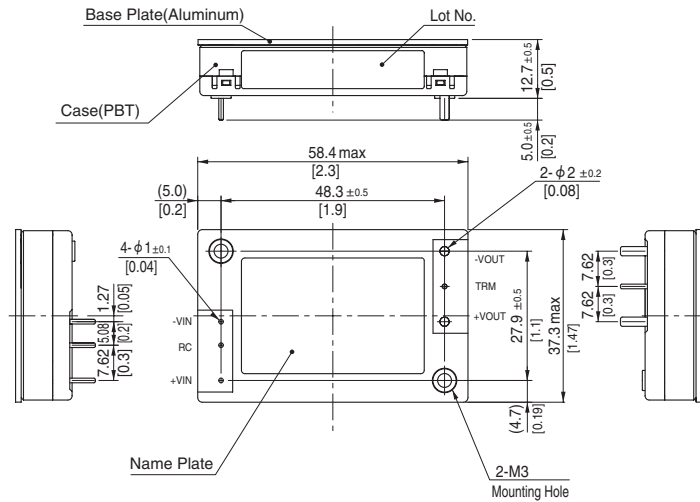
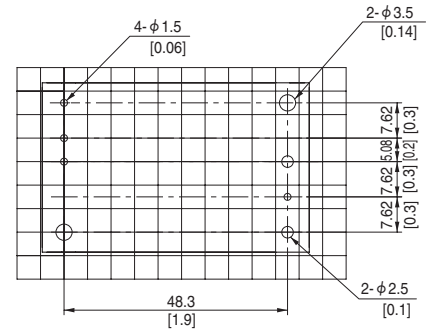
*1 At rated input(DC110V) and rated load.

*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℃, with the input voltage held constant at the rated input/output.

*4 Refer to the manual for input range.

External view

Recommending size for processing PCB
(TOP VIEW)

※ Dimensions in mm, []=inches

※ Div. : 0.2inch

※ Tolerance : ±0.3 [±0.012]

※ Weight : 60g max

※ Dimensions in mm, []=inches

※ Mounting hole screwing torque : 0.49N · m (5.0kgf · cm) max

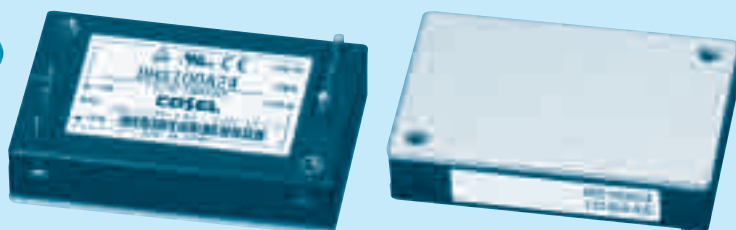
DHS100A

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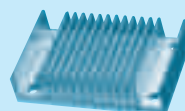
① ② ③ ④ ⑤ ⑥



RoHS



*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	DHS100A05	DHS100A12	DHS100A15	DHS100A24
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

SPECIFICATIONS

	MODEL	DHS100A05	DHS100A12	DHS100A15	DHS100A24
INPUT	VOLTAGE[V]	DC60 - 160			
	CURRENT[A]	1.1A	1.1A	1.1A	1.1A
	EFFICIENCY[%]	85.0typ	88.0typ	88.0typ	88.0typ
OUTPUT	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]	10max	24max	30max	48max
	RIPPLE[mVp-p]	0 to +100℃ *2	80max	120max	120max
		-40 to 0℃ *2	120max	150max	150max
		0 to 15% Load *2	160max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100℃ *2	120max	150max	150max
		-40 to 0℃ *2	200max	200max	250max
		0 to 15% Load *2	240max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65℃	50max	150max	240max
		-40 to +100℃	100max	300max	480max
	DRIFT[mV]	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)			
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)			
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)			
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)			
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100℃ (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℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max			
	VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis Complies with IEC61373 Category 1 Class B			
	IMPACT	196.1m/s² (20G), 11ms, once each along X, Y and Z axis Complies with IEC61373 Category 1 Class B			
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1			
OTHERS	CASE SIZE/WEIGHT	58.4×12.7×37.3mm [2.3×0.5×1.47 inches] (W×H×D) / 60g max			
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)			

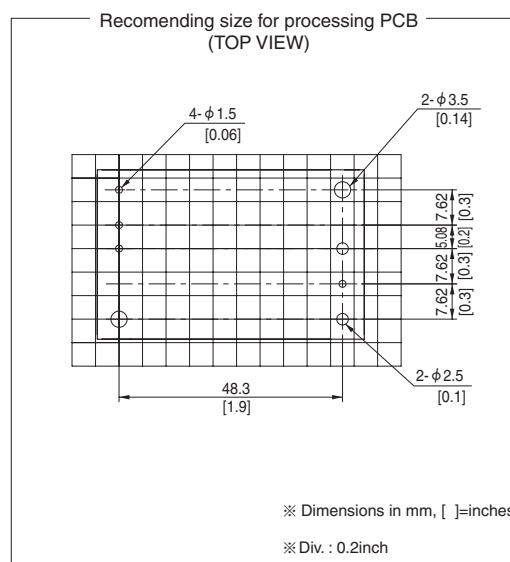
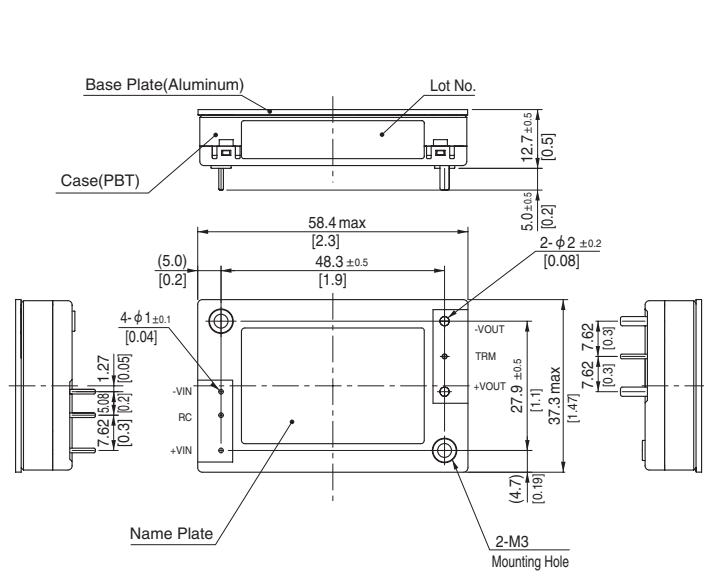
*1 At rated input(DC110V) and rated load.

*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℃, 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]

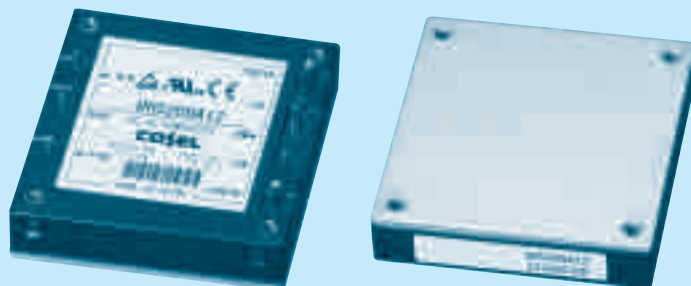
※ Weight : 60g max

※ Dimensions in mm, []=inches

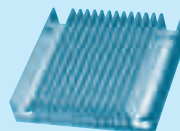
※ Mounting hole screwing torque : 0.49N · m (5.0kgf · cm) max



RoHS



*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	DHS200A05	DHS200A12	DHS200A15	DHS200A24
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

SPECIFICATIONS

	MODEL	DHS200A05	DHS200A12	DHS200A15	DHS200A24
INPUT	VOLTAGE[V]	DC60 - 160			
	CURRENT[A]	2.1A	2.1A	2.1A	2.1A
	EFFICIENCY[%]	87.0typ	88.0typ	88.0typ	88.0typ
OUTPUT	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]	10max	24max	30max	48max
	RIPPLE[mVp-p]	0 to +100℃ *2	80max	120max	120max
		-40 to 0℃ *2	120max	150max	150max
		0 to 15% Load *2	160max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100℃ *2	120max	150max	150max
		-40 to 0℃ *2	200max	200max	250max
		0 to 15% Load *2	240max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65℃	50max	120max	150max
		-40 to +100℃	100max	240max	480max
	DRIFT[mV]	20max	40max	60max	90max
PROTECTION CIRCUIT AND OTHERS	START-UP TIME[ms]	200max (DCIN 110V, Io=100%)			
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external VR or external voltage			
	OUTPUT VOLTAGE SETTING[V]	3.00 - 6.00	7.20 - 13.20	9.00 - 16.50	14.40 - 26.40
	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
	OVERVOLTAGE PROTECTION[V]	6.30 - 7.30	13.90 - 16.35	17.25 - 20.25	27.60 - 32.40
ISOLATION	REMOTE SENSING	Provided			
	REMOTE ON/OFF	Provided (Negative Logic L : ON, H : OFF)			
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)			
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)			
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)			
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100℃ (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℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max			
	VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis Complies with IEC61373 Category 1 Class B			
	IMPACT	196.1m/s² (20G), 11ms, once each along X, Y and Z axis Complies with IEC61373 Category 1 Class B			
SAFETY	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1			
OTHERS	CASE SIZE/WEIGHT	58.4×12.7×61mm [2.3×0.5×2.4 inches] (W×H×D) / 100g max			
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)			

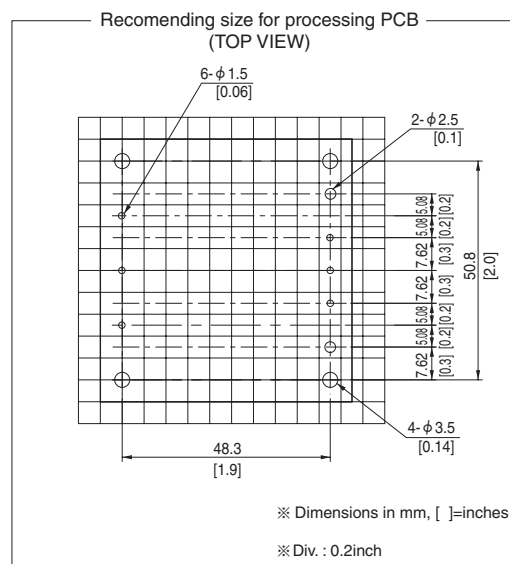
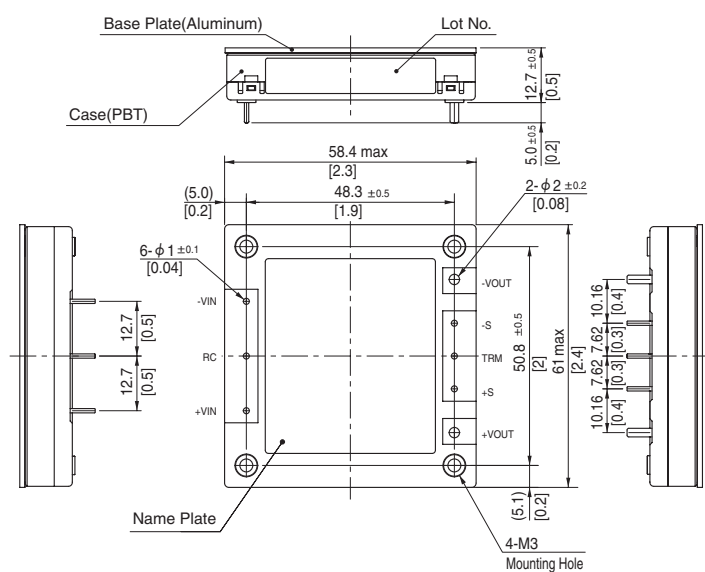
*1 At rated input(DC110V) and rated load.

*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℃, 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 : 100g max

※ Dimensions in mm, []=inches

※ Mounting hole screwing torque : $0.49\text{N} \cdot \text{m}$ (5.0kgf · cm) max

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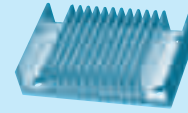
⑥



RoHS



* Providing heat sink
as option



- ① Series name
② Single output
③ Output wattage
④ B : DC200-400V
⑤ Output voltage
⑥ Optional
T : with Mounting hole
(ϕ 3.4 thru)

MODEL	DHS50B03	DHS50B05	DHS50B12	DHS50B15	DHS50B24	DHS50B28
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	DHS50B03	DHS50B05	DHS50B12	DHS50B15	DHS50B24	DHS50B28
INPUT	VOLTAGE[V]	DC200 - 400					
	CURRENT[A]	*1 0.15A	0.22A	0.22A	0.22A	0.22A	0.22A
	EFFICIENCY[%]	*1 77.0typ	80.0typ	83.0typ	83.0typ	83.0typ	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]	10max	10max	24max	30max	48max	56max
	RIPPLE[mVp-p]	0 to +100℃ *2	80max	80max	120max	120max	120max
		-40 to 0℃ *2	120max	120max	150max	150max	150max
		0 to 15% Load *2	160max	160max	240max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100℃ *2	120max	120max	150max	150max	150max
		-40 to 0℃ *2	200max	200max	200max	250max	250max
		0 to 15% Load *2	240max	240max	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65℃	35max	50max	120max	150max	240max
		-40 to +100℃	66max	100max	240max	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]	Fixed (TRM pin open), adjustable by external VR or external voltage					
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	Provided (Negative Logic L : ON, H : OFF)					
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15℃)					
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15℃)					
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20 $\pm$ 15℃)					
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100℃ (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℃, 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					
	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	58.4×12.7×37.3mm [2.3×0.5×1.47 inches] (W×H×D) / 60g max					
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)					

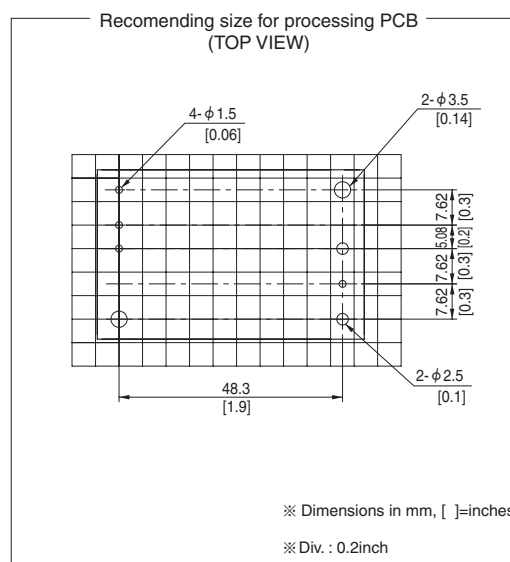
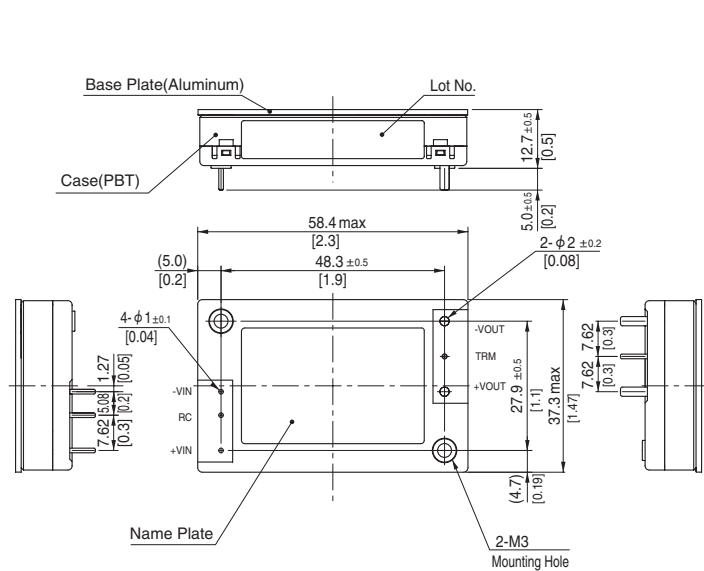
*1 At rated input(DC280V) and rated load.

*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℃, with the input voltage held constant at the rated input/output.

*4 Refer to the manual for input range.

External view



※ Dimensions in mm, []=inches

※ Div. : 0.2inch

※ Tolerance : ±0.3 [±0.012]

※ Weight : 60g max

※ Dimensions in mm, []=inches

※ Mounting hole screwing torque : 0.49N · m (5.0kgf · cm) max

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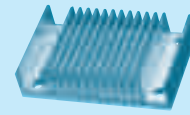
⑥



RoHS



*Providing heat sink
as option



- ① Series name
② Single output
③ Output wattage
④ B : DC200-400V
⑤ Output voltage
⑥ Optional
T : with Mounting hole
(ϕ 3.4 thru)

MODEL	DHS100B03	DHS100B05	DHS100B12	DHS100B15	DHS100B24	DHS100B28
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	DHS100B03	DHS100B05	DHS100B12	DHS100B15	DHS100B24	DHS100B28
INPUT	VOLTAGE[V]	DC200 - 400					
	CURRENT[A]	*1 0.30A	0.44A	0.42A	0.42A	0.42A	0.42A
	EFFICIENCY[%]	*1 79.0typ	82.0typ	85.0typ	86.0typ	86.0typ	86.0typ
OUTPUT	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]	10max	10max	24max	30max	48max	56max
	RIPPLE[mVp-p]	0 to +100℃ *2	80max	80max	120max	120max	120max
		-40 to 0℃ *2	120max	120max	150max	150max	150max
		0 to 15% Load *2	160max	160max	240max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100℃ *2	120max	120max	150max	150max	150max
		-40 to 0℃ *2	200max	200max	200max	250max	250max
		0 to 15% Load *2	240max	240max	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65℃	35max	50max	120max	150max	280max
		-40 to +100℃	66max	100max	240max	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]	Fixed (TRM pin open), adjustable by external VR or external voltage					
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	Provided (Negative Logic L : ON, H : OFF)					
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15℃)					
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15℃)					
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20 $\pm$ 15℃)					
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100℃ (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℃, 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					
	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	58.4×12.7×37.3mm [2.3×0.5×1.47 inches] (W×H×D) / 60g max					
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)					

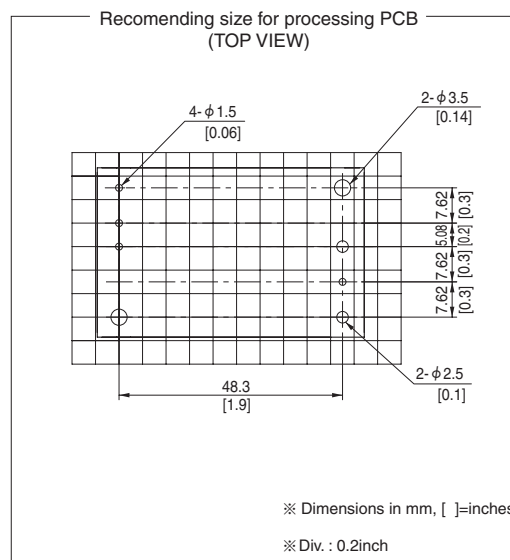
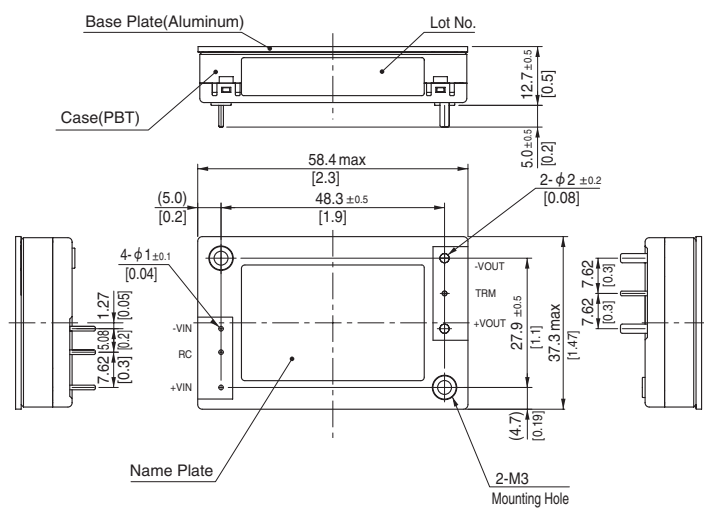
*1 At rated input(DC280V) and rated load.

*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℃, 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 : 0.49N · m (5.0kgf · cm) max

DHS250B

DH

S

250

B

05

-□

①

②

③

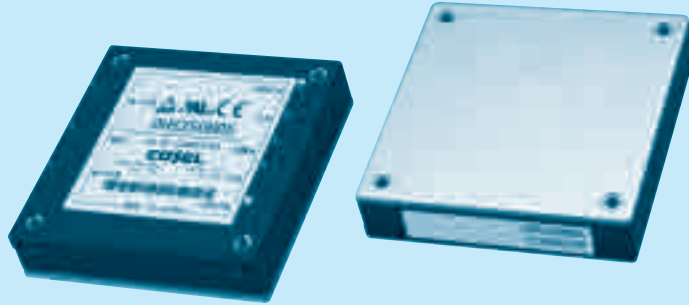
④

⑤

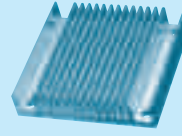
⑥



RoHS



* Providing heat sink
as option



- ① Series name
② Single output
③ Output wattage
④ B : DC200-400V
⑤ Output voltage
⑥ Optional
T : with Mounting hole
(ϕ 3.4 thru)

MODEL	DHS250B03	DHS250B05	DHS250B07	DHS250B12	DHS250B15	DHS250B24	DHS250B28	DHS250B48
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	DHS250B03	DHS250B05	DHS250B07	DHS250B12	DHS250B15	DHS250B24	DHS250B28	DHS250B48
INPUT	VOLTAGE[V]	DC200 - 400							
	CURRENT[A]	*1 0.67A	1.0A	1.0A	1.0A	1.0A	1.0A	1.0A	1.0A
	EFFICIENCY[%]	*1 88.0typ	90.0typ	88.0typ	88.0typ	88.0typ	88.0typ	88.0typ	89.0typ
OUTPUT	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[mV]	10max	10max	20max	24max	30max	48max	56max	96max
	RIPPLE[mVp-p]	0 to +100°C *2	80max	80max	100max	120max	120max	120max	200max
		-40 to 0°C *2	120max	120max	130max	150max	150max	150max	250max
		0 to 15% Load *2	160max	160max	200max	240max	240max	240max	400max
	RIPPLE NOISE[mVp-p]	0 to +100°C *2	120max	120max	130max	150max	150max	150max	250max
		-40 to 0°C *2	200max	200max	200max	200max	250max	250max	400max
		0 to 15% Load *2	240max	240max	260max	300max	300max	300max	500max
	TEMPERATURE REGULATION[mV]	0 to +65°C	35max	50max	70max	120max	150max	240max	480max
		-40 to +100°C	66max	100max	140max	240max	300max	480max	960max
	DRIFT[mV]	*3 16max	20max	30max	40max	60max	90max	90max	180max
	START-UP TIME[ms]	200max (DCIN 280V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external VR or external voltage							
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically							
	OVERVOLTAGE PROTECTION[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
	REMOTE SENSING	Provided							
	REMOTE ON/OFF	Provided (Negative Logic L : ON, H : OFF)							
ISOLATION	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)							
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20 $\pm$ 15°C)							
ENVIRONMENT	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							
	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	58.4×12.7×61mm [2.3×0.5×2.4 inches](W×H×D) / 100g max							
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)							

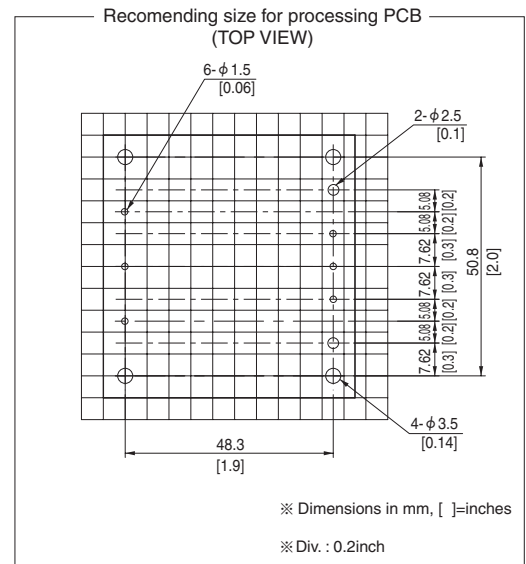
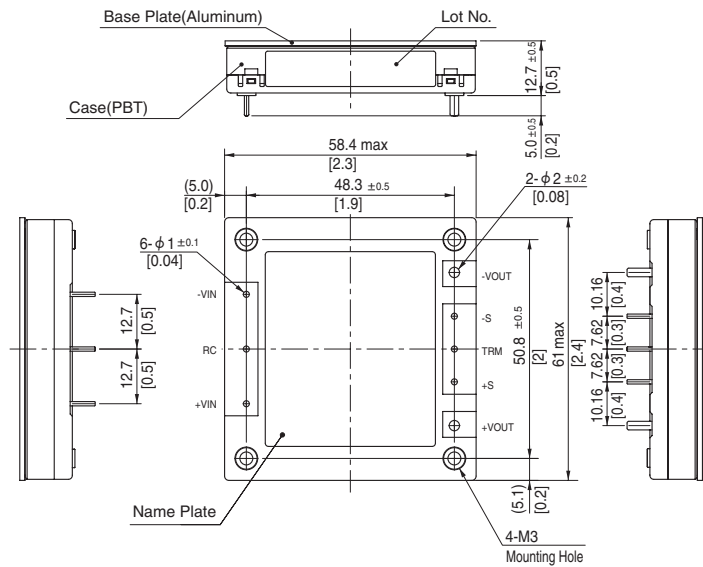
*1 At rated input(DC280V) and rated load.

*2 Ripple and ripple noise is measured by using measuring board. 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 : 100g max

※ Dimensions in mm, []=inches

※ Mounting hole screwing torque : $0.49\text{N} \cdot \text{m}$ (5.0kgf $\cdot$ cm) max

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