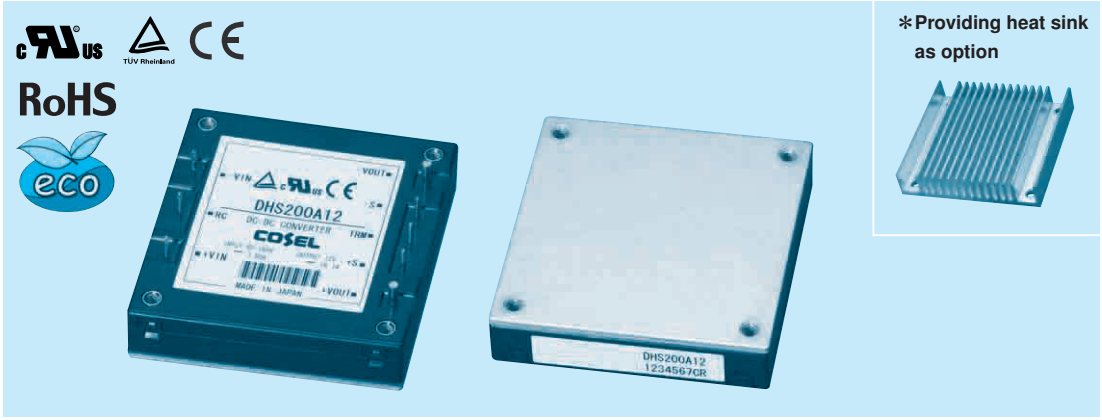
COSEL DC-DC Converters Bus Converter·Power Module Type

DHS200A

Ordering information

DH	S	200	A	05	-□
①	②	③	④	⑤	⑥



∗Providing heat sink as option

①Series name
②Single output
③Output wattage
④A : DC60-160V
⑤Output voltage
⑥Optional
T : with Mounting hole (φ3.4 thru)

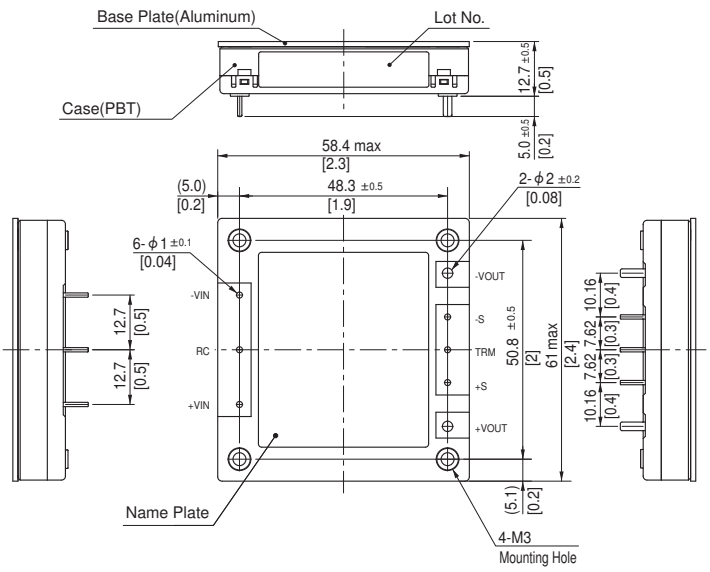
MODEL	DHS200A05	DHS200A12	DHS200A15	DHS200A24
MAX OUTPUT WATTAGE[W]	200.0	200.4	201.0	201.6
DC OUTPUT	5V 40A	12V 16.7A	15V 13.4A	24V 8.4A

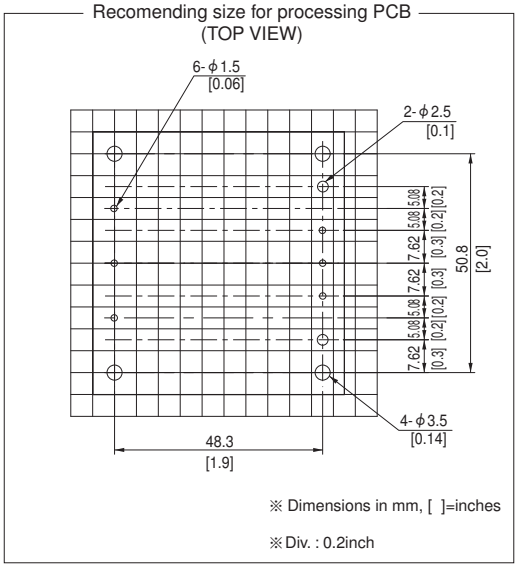
SPECIFICATIONS

	MODEL		DHS200A05	DHS200A12	DHS200A15	DHS200A24
INPUT	VOLTAGE[V]		DC60 - 160			
	CURRENT[A]	∗1	2.1A	2.1A	2.1A	2.1A
	EFFICIENCY[%]	∗1	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	120max
		-40 to 0℃ ∗2	120max	150max	150max	150max
		0 to 15% Load ∗2	160max	240max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100℃ ∗2	120max	150max	150max	150max
		-40 to 0℃ ∗2	200max	200max	200max	250max
		0 to 15% Load ∗2	240max	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65℃	50max	120max	150max	240max
		-40 to +100℃	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	Fixed (TRM pin open), adjustable by external VR or external voltage			
			3.00 - 6.00	7.20 - 13.20	9.00 - 16.50	14.40 - 26.40
	OUTPUT VOLTAGE SETTING[V]		4.97 - 5.13	11.91 - 12.29	14.76 - 15.24	23.62 - 24.38
PROTECTION CIRCUIT AND OTHERS	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
	REMOTE SENSING		Provided			
	REMOTE ON/OFF		Provided (Neqative 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 : 0.49N・m (5.0kgf・cm) max

DHS