

**COSEL** DC-DC Converters Power Module type

# DHS250B

**Ordering information**

**DH S 250 B 05 -□**

① ② ③ ④ ⑤ ⑥



\* 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**

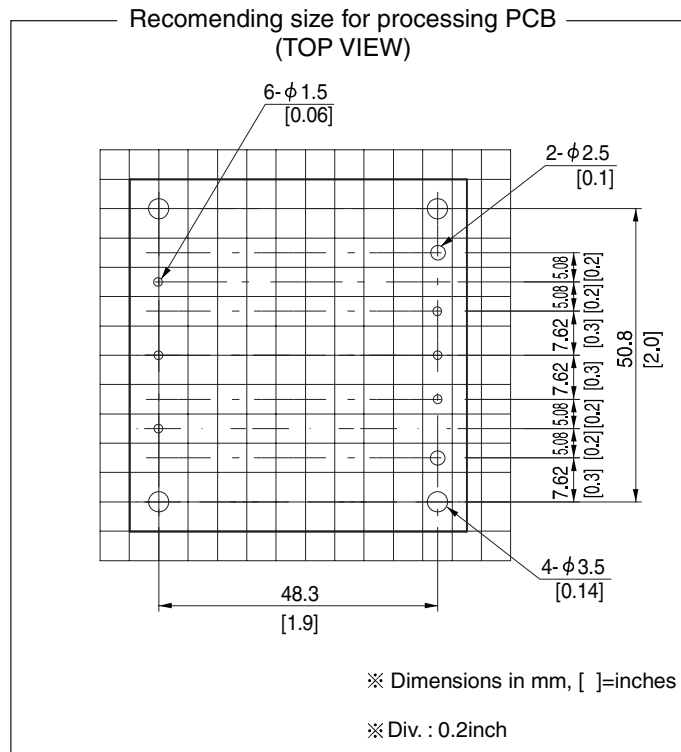
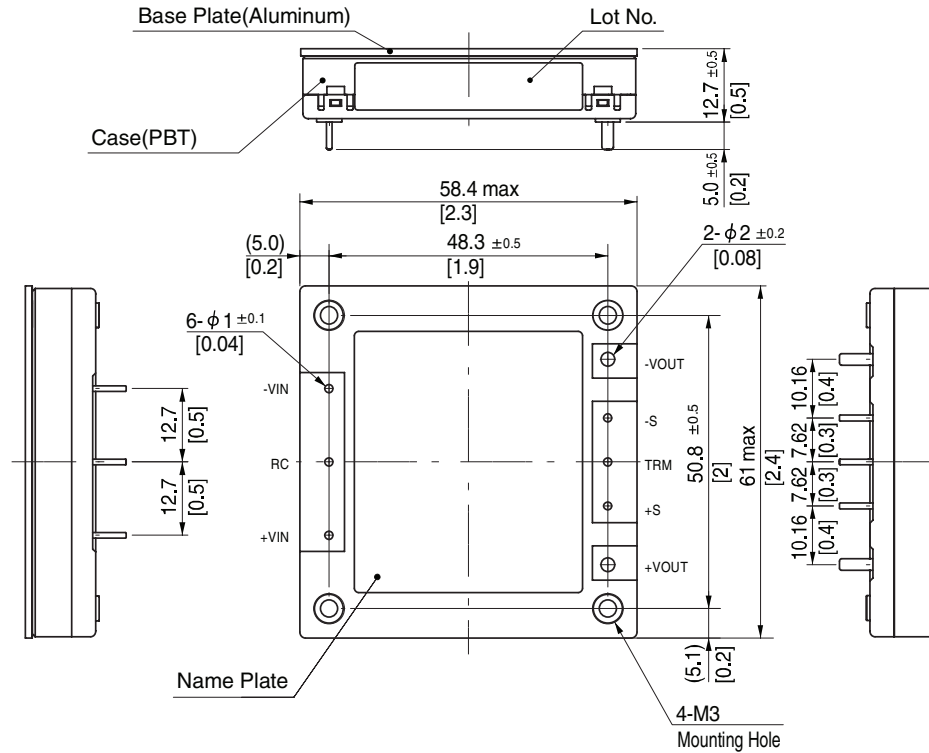
	MODEL	DHS250B03	DHS250B05	DHS250B07	DHS250B12	DHS250B15	DHS250B24	DHS250B28	DHS250B48	
INPUT	VOLTAGE[V]	DC200 - 400								
	CURRENT[A]	*1 0.67A	1.0A	1.0A	1.0A	1.0A	1.0A	1.0A	1.0A	
	EFFICIENCY[%]	*1 88.0typ	90.0typ	88.0typ	88.0typ	88.0typ	88.0typ	88.0typ	89.0typ	
OUTPUT	VOLTAGE[V]	3.3	5	7.5	12	15	24	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	120max	200max
		-40 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
	RIPPLE NOISE[mVp-p]	0 to +100°C *2	120max	120max	130max	150max	150max	150max	150max	250max
		-40 to 0°C *2	200max	200max	200max	200max	200max	250max	250max	400max
		0 to 15% Load *2	240max	240max	260max	300max	300max	300max	300max	500max
	TEMPERATURE REGULATION[mV]	0 to +65°C	35max	50max	70max	120max	150max	240max	280max	480max
		-40 to +100°C	66max	100max	140max	240max	300max	480max	560max	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] *4	Fixed (TRM pin open), adjustable by external VR or external voltage									
	1.98 - 3.96	3.00 - 6.00	4.50 - 8.25	7.20 - 13.20	9.00 - 16.50	14.40 - 26.40	16.80 - 30.80	28.80 - 52.80		
OUTPUT VOLTAGE SETTING[V]	3.30 - 3.40	4.97 - 5.13	7.43 - 7.67	11.91 - 12.29	14.76 - 15.24	23.62 - 24.38	27.56 - 28.44	47.24 - 48.76		
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 50MΩ min (20±15°C)								
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)								
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±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 <sup>2</sup> (5G), 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								
OTHERS	CASE SIZE/WEIGHT	58.4 X 12.7 X 61mm [2.3 X 0.5 X 2.4 inches](W X H X 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.

Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

Click below for more details, to buy on-line or request volume pricing:  
<http://power.sager.com/cosel-DHS250-dc-dc-converter.html>

**(866) 588-1750**  
 power@sager.com  
<http://power.sager.com>



- ※ Tolerance : ±0.3 [±0.012]
- ※ Weight : 100g max
- ※ Dimensions in mm, [ ]=inches
- ※ Mounting hole screwing torque : 0.49N · m (5.0kgf · cm) max

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