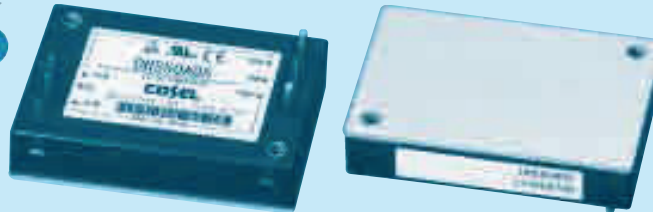


COSEL DC-DC Converters Power Module type

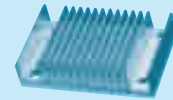
DHS50A

Ordering information

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 (φ3.4 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%)					
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external VR or external voltage					
OUTPUT VOLTAGE SETTING[V]	*4	4.50 - 6.00	10.80 - 13.20	13.50 - 16.50	21.60 - 26.40	
		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 - 7.60	13.90 - 17.55	17.25 - 21.75	27.60 - 34.80	
	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°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 ² (5G), 3minutes period, 60minutes each along X, Y and Z axis Complies with IEC61373 Category 1 Class B				
IMPACT	196.1m/s ² (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 X 12.7 X 37.3mm [2.3 X 0.5 X 1.47 inches] (W X H X D) / 60g max				
	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)				

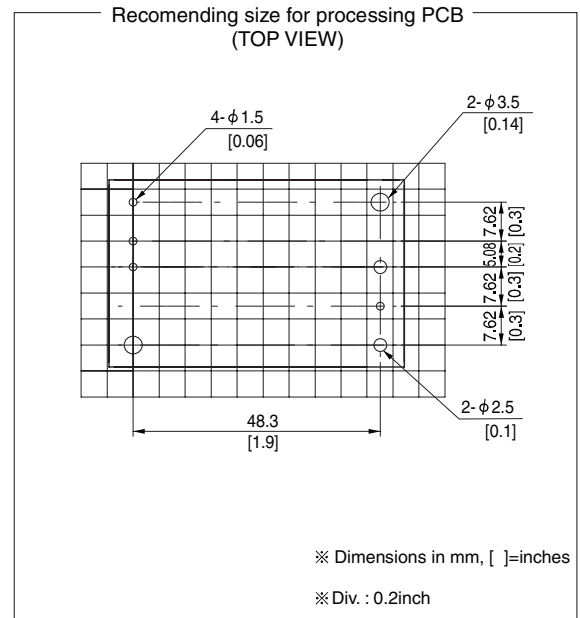
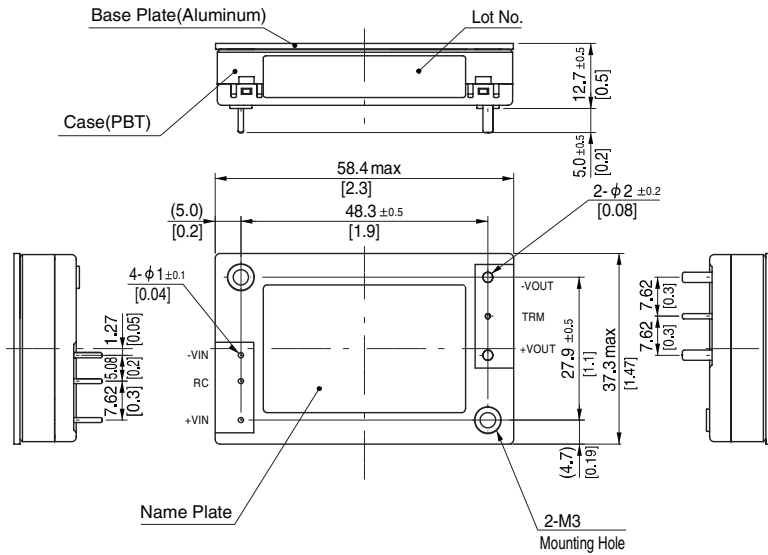
*1 At rated input(DC110V) and rated load.
 *2 Ripple and ripple noise is measured by using measuring board. Refer to the manual
 *3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
 *4 Refer to the manual for input range.

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-DHS50-dc-dc-converter.html>

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

External view



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