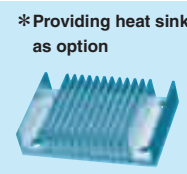


COSEL DC-DC Converters Power Module type
DHS100A

Ordering information
DH S 100 A 05 - □



- 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	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 1.1A	1.1A	1.1A	1.1A	
	EFFICIENCY[%]	*1 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°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]	*4	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	
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/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				
	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				
OTHERS	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.

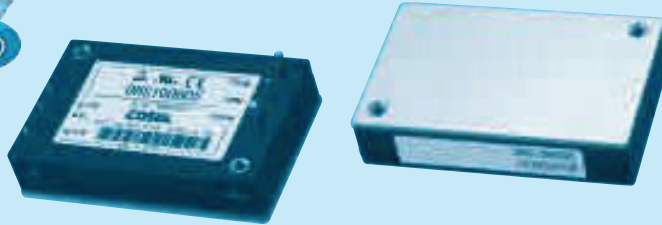
COSEL DC-DC Converters Power Module type

DHS100B

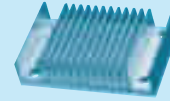
Ordering information

DH S 100 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	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

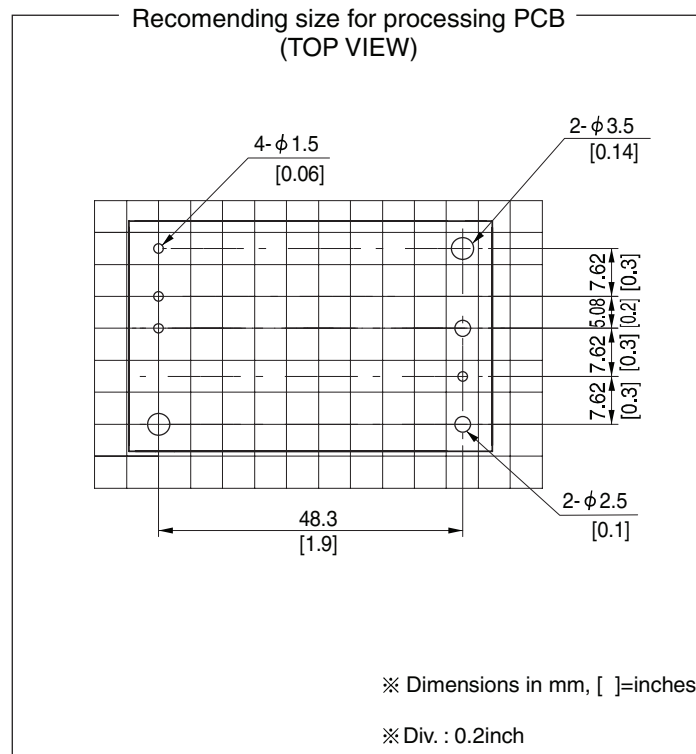
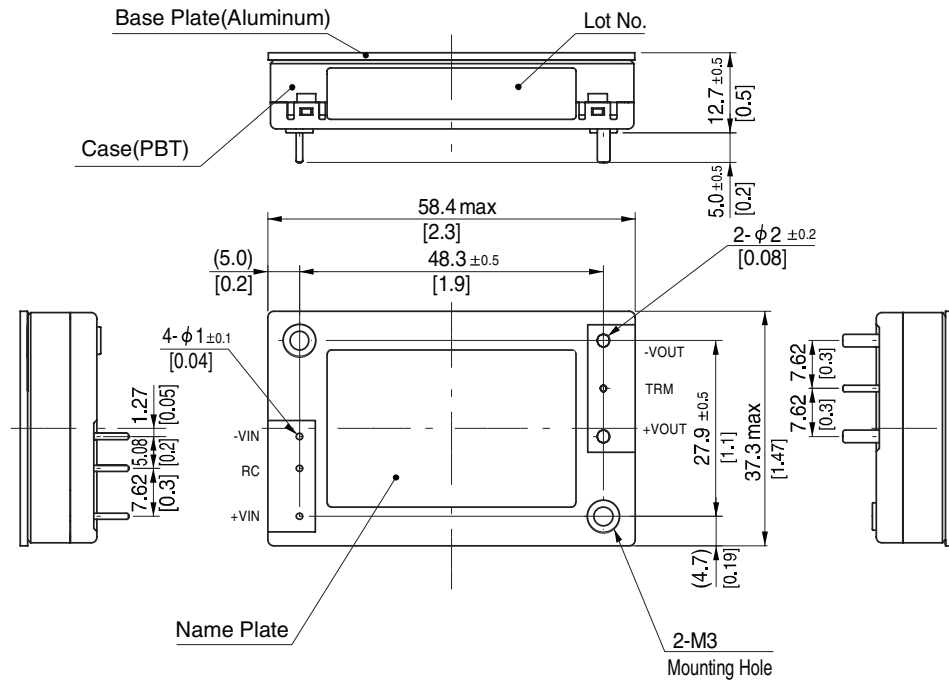
	MODEL	DHS100B03	DHS100B05	DHS100B12	DHS100B15	DHS100B24	DHS100B28	
INPUT	VOLTAGE[V]	DC200 - 400						
	CURRENT[A]	*1 0.30A	0.44A	0.42A	0.42A	0.42A	0.42A	
	EFFICIENCY[%]	*1 79.0typ	82.0typ	85.0typ	86.0typ	86.0typ	86.0typ	
OUTPUT	VOLTAGE[V]	3.3	5	12	15	24	28	
	CURRENT[A]	20	20	8.4	6.7	4.2	3.6	
	LINE REGULATION[mV]	10max	10max	24max	30max	48max	56max	
	LOAD REGULATION[mV]	10max	10max	24max	30max	48max	56max	
	RIPPLE[mVp-p]	0 to +100°C *2	80max	80max	120max	120max	120max	120max
		-40 to 0°C *2	120max	120max	150max	150max	150max	150max
		0 to 15% Load *2	160max	160max	240max	240max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +100°C *2	120max	120max	150max	150max	150max	150max
		-40 to 0°C *2	200max	200max	200max	200max	250max	250max
		0 to 15% Load *2	240max	240max	300max	300max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65°C	35max	50max	120max	150max	240max	280max
		-40 to +100°C	66max	100max	240max	300max	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] *4	Fixed (TRM pin open), adjustable by external VR or external voltage							
OUTPUT VOLTAGE SETTING[V]	3.30 - 3.96	4.50 - 6.00	10.80 - 13.20	13.50 - 16.50	21.60 - 26.40	25.20 - 30.80		
	3.30 - 3.40	4.97 - 5.13	11.91 - 12.29	14.76 - 15.24	23.62 - 24.38	27.56 - 28.44		
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 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						
	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 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(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-DHS100-dc-dc-converter.html>

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



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