

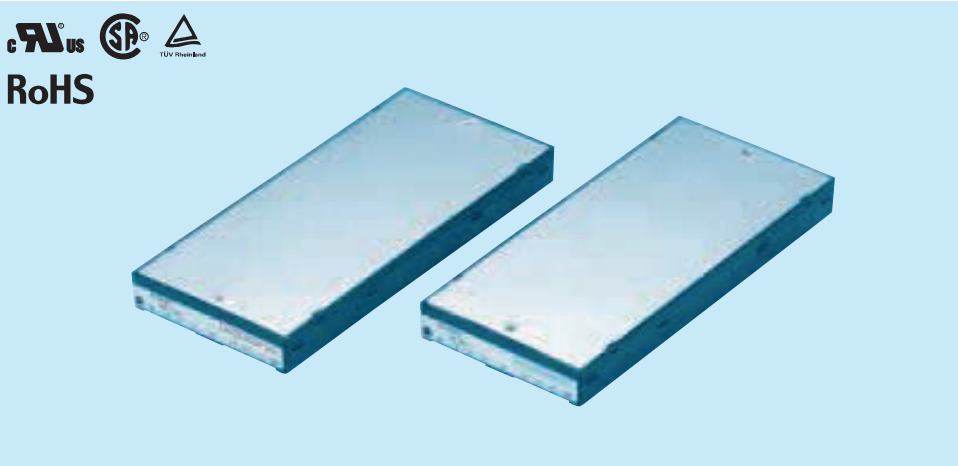
**COSEL** DC-DC Converters Power Module type

# DAS100

**Ordering information**

**DA S 100**  **05**

① ② ③ ④ ⑤



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Input voltage  
F :DC88 - 370V  
48 :DC36 - 72V
- ⑤ Output voltage

MODEL	DAS100F05	DAS100F12	DAS100F24	DAS1004805	DAS1004812
MAX OUTPUT WATTAGE[W]	100	102	100.8	100	102
DC OUTPUT	5V 20A	12V 8.5A	24V 4.2A	5V 20A	12V 8.5A

## SPECIFICATIONS

	MODEL	DAS100F05	DAS100F12	DAS100F24	DAS1004805	DAS1004812	
INPUT	VOLTAGE[V]	DC88 - 370			DC36 - 72		
	CURRENT[A]	1.0typ (DCIN 130V, Io=100%) 0.5typ (DCIN 260V, Io=100%)			2.60typ (DCIN 48V, Io=100%) 2.59typ (DCIN 48V, Io=100%)		
	EFFICIENCY[%]	82typ	82typ	82typ	80typ	82typ	
	LEAKAGE CURRENT[ma]	0.3max (By UL, CSA, VDE and DEN-AN)					
OUTPUT	VOLTAGE[V]	5	12	24	5	12	
	CURRENT[A]	20	8.5	4.2	20	8.5	
	LINE REGULATION[mV]	20max	48max	96max	20max	48max	
	LOAD REGULATION[mV]	40max	100max	150max	40max	100max	
	RIPPLE[mVp-p]	0 to +85°C *1	80max	120max	120max	80max	120max
		-10 - 0°C *1	140max	160max	160max	140max	160max
	RIPPLE NOISE[mVp-p]	0 to +85°C *1	150max	200max	200max	150max	200max
		-10 - 0°C *1	190max	230max	230max	190max	230max
	TEMPERATURE REGULATION[mV]	0 to +85°C	85max	204max	408max	85max	210max
		-10 to +85°C	95max	228max	456max	95max	230max
	DRIFT[mV]	*2	20max	48max	96max	20max	48max
START-UP TIME[ms]	200max (DCIN 88V, Io=100%)			200max (DCIN 36V, Io=100%)			
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open) ±10% adjustable by external VR						
OUTPUT VOLTAGE SETTING[V]	4.85 - 5.35	11.4 - 12.6	22.8 - 25.2	4.85 - 5.35	11.4 - 12.6		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating					
	REMOTE SENSING	Provided					
	REMOTE ON/OFF	Between RC and -side of input:short - 1.2V . . . output ON, 2.4 - 5.5V(or open) . . . output OFF, Compatible TTL					
ISOLATION	INPUT-OUTPUT	AC3.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)			AC500V 1minute, Cutoff current = 100mA, DC300V 50MΩ min (At Room Temperature)		
	INPUT-FG	AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)			AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-10 to +85°C (Aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max					
	STORAGE TEMP.,HUMID.AND ALTITUDE	-40 to +85°C, 20 - 95%RH (Non condensing), 9,000m (30,000feet) 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 X, Y and Z axis					
SAFETY	AGENCY APPROVALS	UL60950-1, EN60950-1, CSA C22.2 No.60950-1 Complies with DEN-AN			Complies with UL60950-1, CSA C22.2 No.60950-1 and EN60950-1		
	CASE SIZE/WEIGHT	58 x 12.7 x 130mm (W x H x D) / 150g max					
OTHERS	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)					

\*1 Measured by attaching the electrolytic capacitor of 220μF at output.

\*2 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.

\* Parallel operation with other model is not possible.

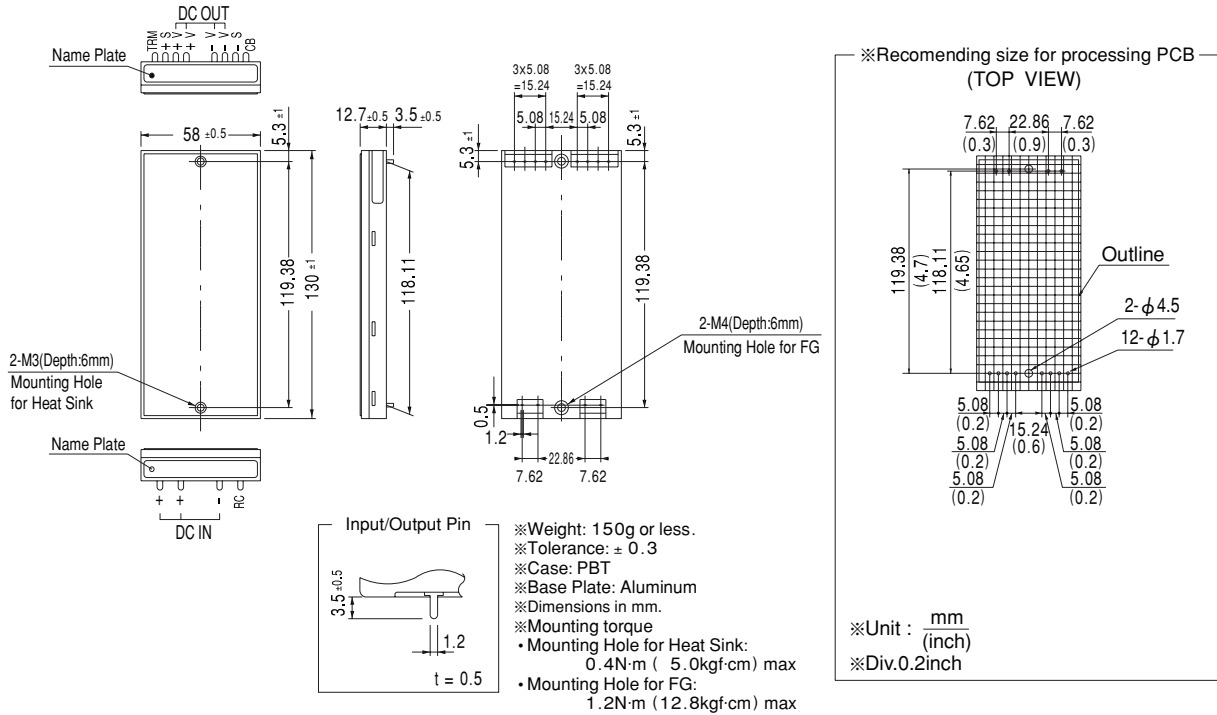
Specifications are subject to change without notice. It is responsibility of each customer to thoroughly test each product and part number under their unique parameters and environments to ensure a product will work properly and reliably.

Click below for more details, to buy on-line or request volume pricing:

<http://power.sager.com/cosel-DAS100-dc-dc-converter.html>

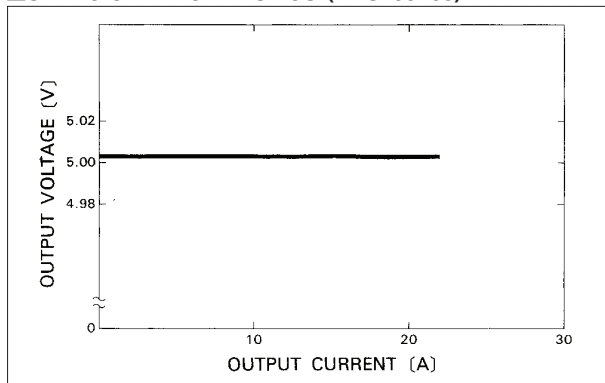
**(866) 588-1750**  
power@sager.com  
<http://power.sager.com>

**External view**

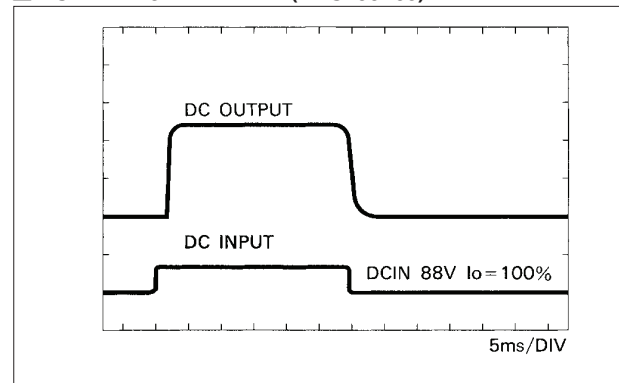


**Performance data**

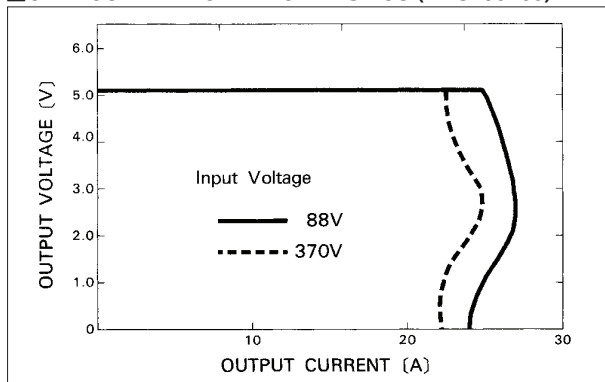
**STATIC CHARACTERISTICS (DAS100F05)**



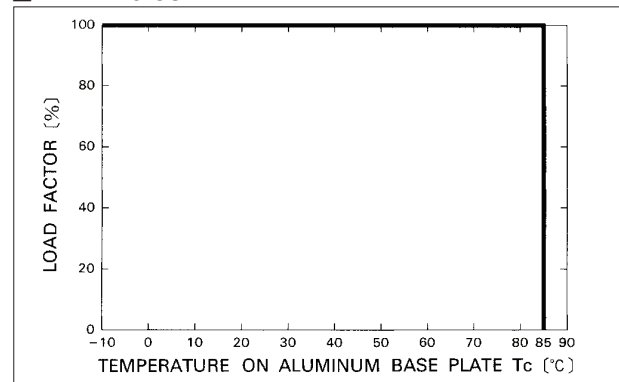
**RISE TIME & FALL TIME (DAS100F05)**



**OVERCURRENT CHARACTERISTICS (DAS100F05)**



**DERATING CURVE**



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