

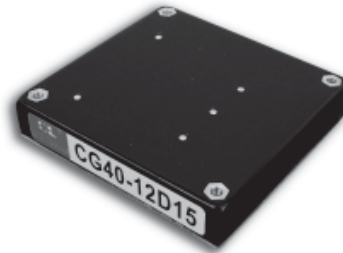
30-60W

DC/DC

CG Series

## Features

- Two stable outputs
- Single, dual and triple output
- Π type input filter
- Design for high reliability, long lifetime
- Pin function compatible
- Fast dynamic response
- Wide range of power, easy to upgrade



## Input Characteristic

Voltage Range	12 VDC	9-18 VDC
	24 VDC	18-36 VDC
	48 VDC	36-72 VDC

Reverse Protection      Connect Fuse Outside

## Output Characteristic

Voltage Set-point Accuracy	± 1%
Output Voltage Range	± 10%
Line Regulation	± 0.2%
Load Regulation	± 0.4%
Temperature Coefficient	± 0.01%/°C
Output Current Limiting	120%(Typ)
Dynamic Response	400µs
Output Current	1-6A
Output Voltage	1.8-48V
Power	30-60W

## General Characteristic

Switching Frequency	160 - 200	KHz
Isolation Resistance	200	M Ω
MTBF	>500000	h
Isolation Voltage		
Input-Output	>1500	VDC
Input-Case	>1050	VDC
Output-Case	>500	VDC
Main-Aux	>500	VDC

## Environmental Characteristics

Case Temperature	(Industry) -25 - +85 °C
	(Military I) -40 - +85 °C
	(Military II) -55 - +85 °C
Storage Temperature	(Industry) -45 - +105 °C
	(Military) -55 - +105 °C

## Heat Characteristic

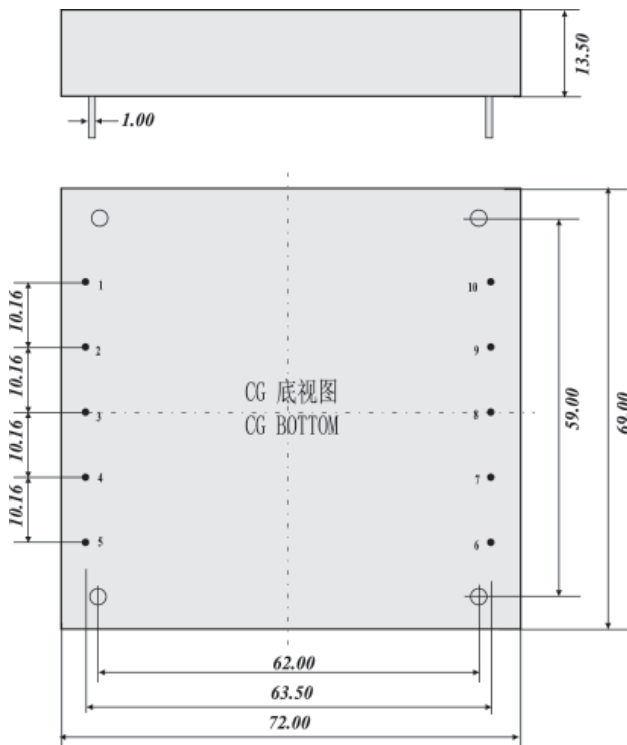
Cooling	Thermal Resistance	With Heat Sink
Breeze of Nature	5.50°C/W	4.55°C/W
0.5M/S	4.59°C/W	3.79°C/W
1M/S	3.42°C/W	2.83°C/W
1.5M/S	2.49°C/W	2.06°C/W
2M/S	2.06°C/W	1.70°C/W

## Models

Input voltage (Vdc)	Input Range	Output voltage (Vdc)	Output current (A)	Ripple and noise pk-pk(mv)	Efficiency Typical	Models
12	9-18	3.3&05	4.54&3	50&50	79%	CG30-12D3.3&05
12	9-18	5&5	6&2	50&50	80%	CG40-12D05&05
12	9-18	12&12	2.08&2.08	120&120	81%	CG50-12D12&12
12	9-18	5&12	4&1.67	50&120	81%	CG40-12D05&12
12	9-18	15&15	1.3&1.3	150&150	82%	CG40-12D15&15
24	18-36	3.3&05	4.54&3	50&50	80%	CG30-24D3.3&05
24	18-36	5&5	6&2	50&50	81%	CG40-24D05&05
24	18-36	12&12	2.08&2.08	120&120	82%	CG50-24D12&12
24	18-36	5&12	4&1.67	50&120	82%	CG40-24D05&12
24	18-36	15&15	1.3&1.3	150&150	83%	CG40-24D15&15
48	36-72	3.3&05	4.54&3	50&50	82%	CG30-48D3.3&05
48	36-72	5&5	6&2	50&50	82%	CG40-48D05&05
48	36-72	12&12	2.08&2.08	120&120	83%	CG50-48D12&12
48	36-72	5&12	4&1.67	50&120	85%	CG40-48D05&12
48	36-72	15&15	1.3&1.3	150&150	86%	CG40-48D15&15

Only typical models listed. If you need other model, please contact us for costum models

## Mechanical drawing and pin definition



单位 (Unit) :mm

引脚 (PIN)	单路 SING
1	NC
2	-Vin
3	+Vin
4	NC
5	REM
6	TRIM
7	+Vo1
8	-Vo1
9	+Vo2
10	-Vo2