

Power Module User Manual

Thank you for purchasing the Coolmay power module. This manual mainly describes the product features, specifications and wiring methods of this series of modules.

Coolmay rail-type industrial power supplies all use imported power supply dedicated driver chips, high-precision high-temperature resistant electronic components and internationally advanced PWM pulse width modulation technology, with short circuit, overload, overvoltage, overheating and other protection functions.

The power module series has the following features:

1. Advanced PWM pulse width modulation technology.
2. Adopt imported switching power supply dedicated driver chip.
3. Soft start current, effectively reduce instantaneous voltage shock.
4. Adopt high temperature electrolytic capacitor to ensure the reliability of the system.
5. 120% full load aging test, strong output.
6. Built-in EMI, filter, ripple and noise are extremely small.
7. It has short circuit protection, overload protection, overvoltage protection and other functions.
8. Natural heat dissipation, stable performance and high reliability.
9. The average trouble-free working time is 100,000 hours.

Product Information

◆ Basic specifications of industrial power supply

Product Model	CG36-24	CG60-24	CM6024
Dimensions	90*36*59mm	90*52*59mm	92*66*35mm
Wiring	3P/2P- 5.0 screw terminals	3P/4P- 5.0Screw terminals	5P-7.62Barrier Terminal Blocks
Output Current	1.5A	2.5A	2A
Output efficiency	87.4%	88%	86%
Installation	Standard guide rail installation, can be installed on NS3517.5 or NS35 guide groove		
Inrush current	30A/230VAC		
Input frequency	50/60Hz		
Input voltage	100~240VAC (withstand 300VAC surge input for 5S without damage)		
Output voltage	DC24V		
Output accuracy	N±1%		
No-load consumption	<0.5W		
Service life	100,000 hours at room temperature 25°C		
Overload protection	Rated output 110%~180%, hiccup protection mode, automatic recovery after abnormal load conditions are removed		
Overvoltage protection	When the output voltage reaches the maximum of 32V, the power adapter enters the overvoltage protection state		
Short circuit protection	Automatic protection when output is short-circuited (LED off), automatic recovery after short-circuit is removed		
Insulation withstand voltage	I/P-O/P:3KVA, I/P-FG: 15KVA, O/P-FG:0.5KVA, 1 minute		
Work Environment	Working temperature -20~+70°C/working humidity 20~75%RH		
Storage environment	No condensation, storage temperature -40~ +85°C/storage humidity 10~95%RH		

Product Information

Product Type	L02-60P	L02-100P
Installation	Standard rail installation, can be installed on NS3517.5 or NS35 guide groove	
Dimensions	90*77*36mm	
Wiring method	6P-5.08 elbow plug closed press terminal	
Input voltage	100~240VAC	
Surge Input	Withstand 300VAC surge input for 5S without damage	
Input frequency	50/60Hz	
Output voltage	DC24V	DC24V
Output Current	2A	4.15A
Inrush current	30A/230VAC	
Output accuracy	±1%	
Output efficiency	86%	88%
No-load consumption	8.8W	5.7W
Protection function	Short circuit/overvoltage/overload protection	

Product appearance and wiring diagram

CG36-24

Plastic casing, small size, rail installation; the power adapter has a single output, the output voltage is +24V, and the output current is 1.5A.



CG36-24 power supply wiring diagram

CG60-24

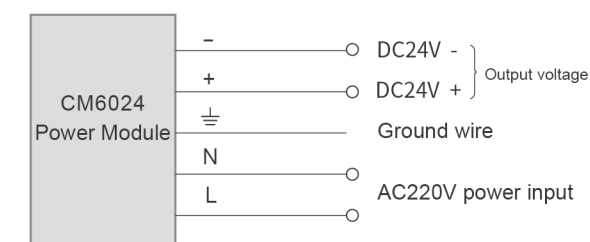
Plastic shell, guide rail installation; the power adapter has single output, the output voltage is +24V, and the output current is 2.5A.



CG60-24 power supply wiring diagram

CM6024

Plastic housing, rail installation, compact size, vertical installation, saving installation space.



CM6024 power supply wiring diagram

L02-60P/L02-100P

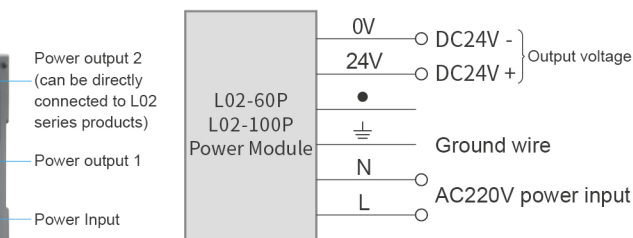
Plastic housing, rail installation, compact size, vertical installation, saving installation space, among which L02-100P has large output current.



L02-60P



L02-100P



L02-60P/L02-100P power supply wiring diagram

TIPS

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Before using this product, please read the relevant manual carefully and use this product under the environmental conditions specified in the manual.

1. Please power on the product after confirming the power voltage range (100~240VAC) and correct wiring to avoid damage.
2. When installing this product, be sure to tighten the screws or clamp the guide rails to avoid falling off.
3. Avoid wiring and plugging and unplugging the cable plug when it is powered on, otherwise it is easy to cause electric shock or circuit damage; when the product emits an odor or abnormal sound, please turn off the power switch immediately; when processing screw holes and wiring, do not let metal chips and wire heads fall into the ventilation holes of the controller, which may cause product failure and misoperation.
4. The grounding terminal on this machine must be properly grounded to improve anti-interference ability.
5. Please do not disassemble the product or modify the wiring at will. Otherwise, it will cause failure, malfunction, loss, and fire.
6. When installing and disassembling the product, be sure to cut off all power supplies, otherwise it will cause equipment malfunction and failure.

Shenzhen Coolmay Technology Co.,Ltd.

Address: Room 902, Block A, Building 4, Software Industry Base, Nanshan District, Shenzhen

Tel:0755-86950416

Fax: 0755-26400661-808

Email: cm2@coolmay.net

Web: en.coolmay.com



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V 2025/02

The product specifications and information in this manual are subject to change without prior notice.