

## COOLMAY CM/CX series power supply user manual

Thank you for purchasing COOLMAY CM / CX series power modules. This manual mainly describes the product features, specifications and wiring methods of this series of modules.

COOLMAY CM6024 / CX2024 / CX6024-12-5 din rail type industrial power supply and CM15024 industrial power supply All adopt imported power supply dedicated driver chip, high precision high temperature resistant electronic components and international advanced PWM pulse width modulation technology, with shortcircuit, overload, overvoltage, overheating and other protection functions.

The power module series has the following features:

1. Advanced PWM pulse width modulation technology.
2. Imported switching power supply dedicated driver chip.
3. Soft start current, effectively reducing transient voltage surges.
4. High temperature electrolytic capacitors are used to ensure system reliability.
5. 120% full load aging test with strong output.
6. Built-in EMI and filter. Ripple and noise are minimal.
7. Short circuit protection, overload protection, overvoltage protection and other functions.
8. Natural heat dissipation, stable performance and high reliability.
9. Average trouble-free working time upto 100,000 hours.

### Product Information

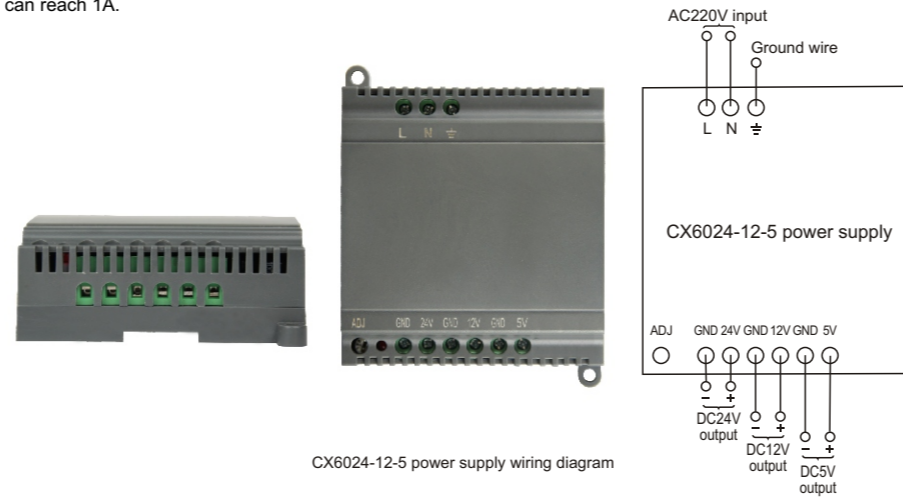
Industrial power supply basic specifications:

Article	CX6024-12-5	CX2024	CM6024	CM15024
Dimension	85*90*36mm	65*90*36mm	90*32*60mm	159*97*38mm
Connection mode	7.62 Barrier terminal	7.62 Barrier terminal	5P-7.62 Barrier terminal	7P-9.5Barrier term
Input voltage	1A	0.8A	2.5A	6.5A
Output efficiency	86%	85%	86%	89%
Installation	Standard guide rail's installation, can be installed on NS3517.5or NS35 guide slot			screw fixation, vertically or parallel installation
Impulse current	30A/230VAC			60A/230VAC
Input frequency	47~63Hz			
Input voltage	88~264V AC/125~373V DC (Withstand 300 VAC surge input 5S, no damage)			
Output voltage	DC24V/DC12V/DC5V	DC24V		
Output accuracy	±1%			
No-load consumption	<0.5w			
Life time	100000 hours at room temperature 25 ° C			
Overload protection	Rated output 110%~180%, hiccup protection mode, automatic recovery after load abnormal condition removal			
Overvoltage protection	27.6 ~ 32.4V			
Short circuit protection	Automatic protection when the output is short-circuited (LED off), automatically restored after the short-circuit is released			
Insulation withstand voltage	I/P-O/P: 3KVA, I/P-FG: 1.5KVA, O/P-FG: 0.5KVA, 1 minute			
Working environment	working environment-20 ~ +70° C / working humidity20 ~ 90%RH			
Storage environment	No condensation, storage temperature -40 ~ +85 ° C / storage humidity 10 ~ 95% RH			

### Product shape and wiring diagram

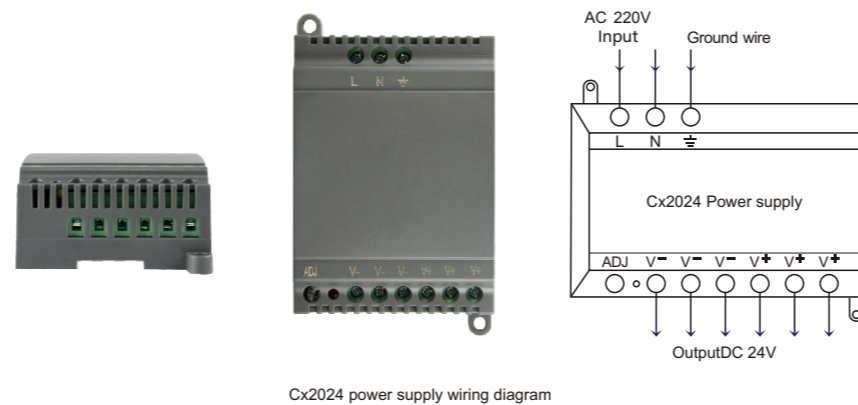
#### CX6024-12-5

Plastic housing, rail mounting; can simultaneously output voltage DC24V, DC12V and DC5V to meet the power supply of different equipment supply voltage; output current can reach 2A when only one type of voltage device is supplied; When powered for DC24V, DC12V and DC5V devices at the same time, the output current can reach 1A.



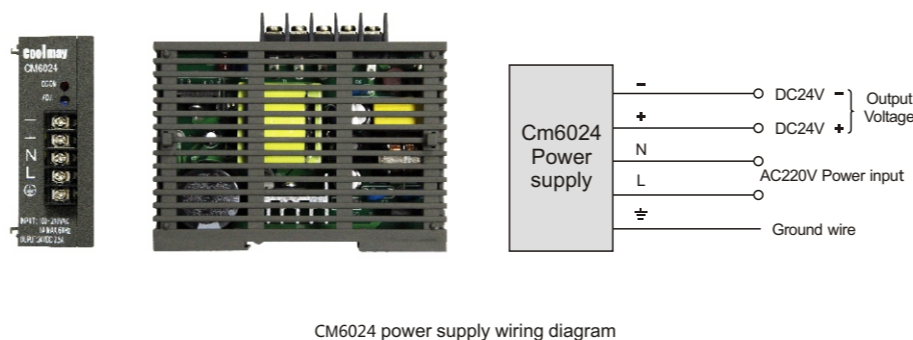
#### CX2024

Plastic case, small size, low cost, rail mounting, suitable for powering 1~2 sets of PLC products.



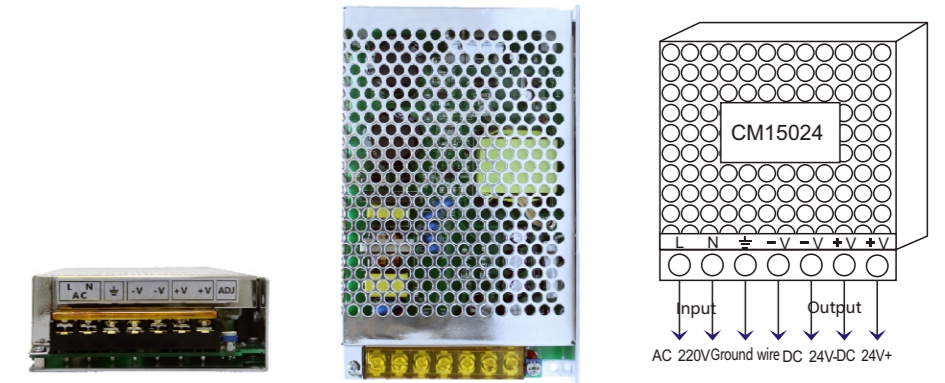
#### CM6024

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



#### CM15024

Metal case, easy to dissipate heat, anti-radiation, large output current.



### TIPS

### COOLMAY CM/CX series power supply user manual

— Please read the relevant manual carefully before using this product. Use this product under ambient conditions.

1. Please confirm the input voltage range (88~264V AC/125~373V Dc) of the product and re-energize after 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, plugging and unplugging the cable in the live state, otherwise it may cause electric shock or circuit damage; when the product emits odor or abnormal sound, please disconnect the power immediately; do not make metal chips and wire heads when processing and wiring the screw holes. Into the ventilation holes of the power supply, this may cause product failure and mis-operation.
4. The grounding terminal on this product must be properly grounded to improve the anti-interference ability.
5. Please do not disassemble the product or modify the wiring. Failure to do so may cause malfunction, malfunction, loss, or fire.
6. When installing and removing the product, be sure to cut off all power supplies, otherwise it will cause malfunction and malfunction of the equipment.

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