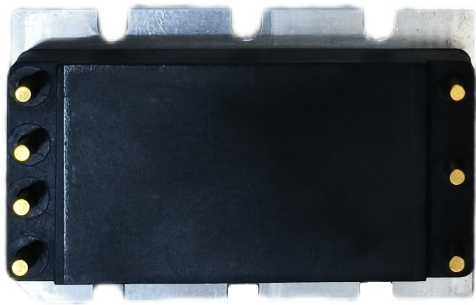


Product Characteristics

- ◆ Input voltage range: 180V-375V
- ◆ Output voltage range: 75%-110%Vout
- ◆ Efficiency≥86.5%
- ◆ Over-voltage, over-current, short-circuit and over-temperature protection
- ◆ Interior patch design
- ◆ International standard pin mode
- ◆ Three years warranty period



Product Overview

The power module of this model is 180V-375V range input, with a maximum power of 100W and an efficiency of 86.5%, with input undervoltage and output overvoltage Output overcurrent, output short circuit and over-temperature protection and other protection functions;

Application

The power supply uses an advanced control topology circuit, with advanced power Processing control and packaging technology, with high efficiency, high power densit Degree, low noise and other advantages; with input overvoltage protect ion, output Overcurrent protection, over-tempera ture protection and other functions;

| Absolute rating                     | Metric  | Unit |
|-------------------------------------|---------|------|
| Voltage between the + IN and the-IN | 0.5~410 | V    |
| Voltage between the PC and the-IN   | 0.5~7.0 | V    |
| Voltage between PR and-IN           | 0.5~7.0 | V    |
| Voltage between SC and-OUT          | 0.5~1.5 | V    |
| The + OUT and the-OUT voltage       | 0.5~7.0 | V    |

Product Naming

| CFMV                                            | 300                        | C                                          | 05                | X                                                                                                      | 100                  | B                  | - |                                                 |
|-------------------------------------------------|----------------------------|--------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------|----------------------|--------------------|---|-------------------------------------------------|
| Changfeng MV series standard brick power supply | Input Voltage 300:180-375V | A:full brick<br>B:1/2 brick<br>C:1/4 brick | Out Voltage 05:5V | M : Tc :-55~100℃<br>Ts :-65~125℃<br>H: Tc :-40~100℃<br>Ts :-55~125℃<br>T: Tc :-40~100℃<br>Ts :-40~100℃ | Out Voltage 100:100W | B:Standard version |   | Default: non-domestic<br>G: National production |

## Input Characteristic

| Parameter                                 | Least Value | Typical Value | Crest Value | Unit | Working Conditions         |
|-------------------------------------------|-------------|---------------|-------------|------|----------------------------|
| No-load state input power consumption     |             | 3.5           | 6.6         | W    | Tc=25℃                     |
| Disable the state input power consumption |             | 2             | 3.5         | W    | Vpc≤2.3V                   |
| Input surge voltage                       |             |               | 400         | V    | Tc=25℃,100ms,the full load |
| Input underpressure                       | 148         | 158           | 179         | V    | The full load              |
| Input overpressure                        | 378         | 400           | 420         | V    | Carrying idler             |

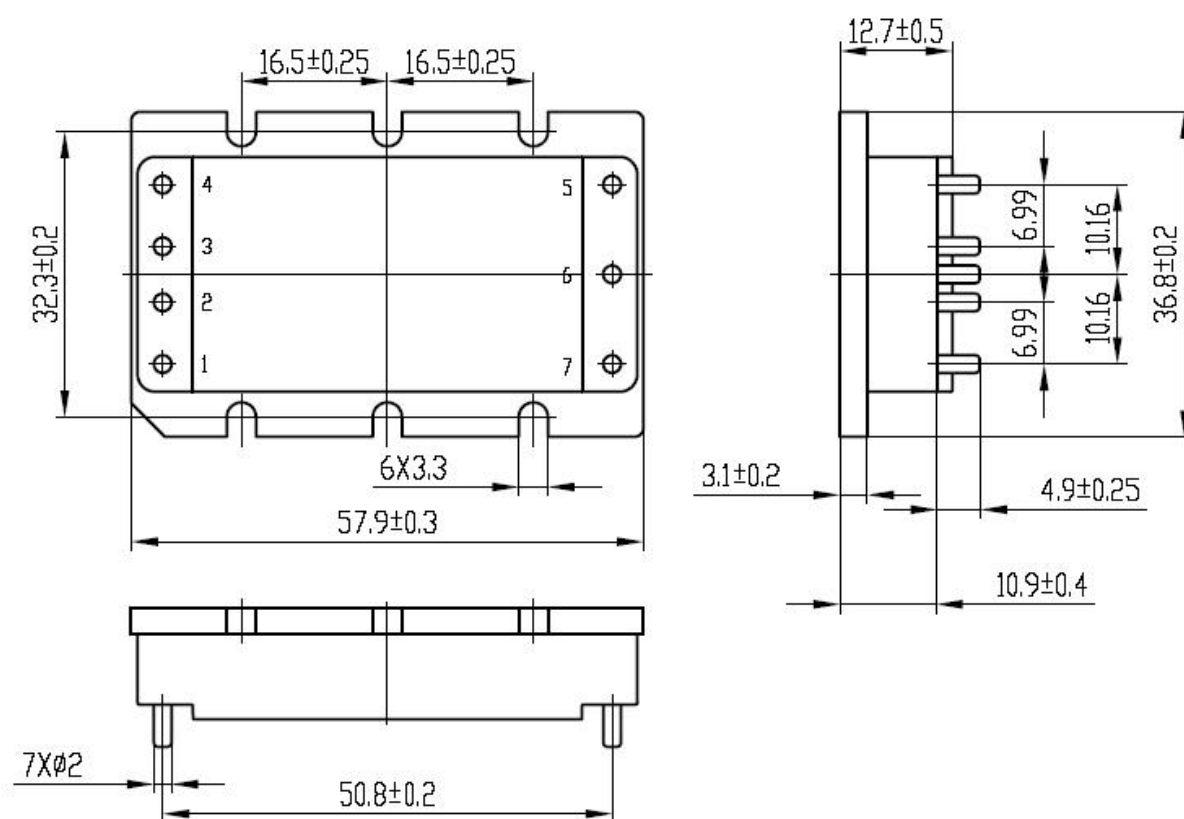
## Output Characteristic

| Parameter                                | Least Value | Typical Value | Crest Value | Unit | Working Conditions                                                         |
|------------------------------------------|-------------|---------------|-------------|------|----------------------------------------------------------------------------|
| Output current                           | 0           |               | 20          | A    |                                                                            |
| Output voltage                           | 4.95        | 5.00          | 5.05        | V    | Tc=25℃, The full load                                                      |
| Windle and noise voltage                 |             | 100           | 150         | mV   | Bandwidth Bw = 20 MHz,The full load                                        |
| Voltage regulation                       |             | 0.05          | 0.2         | %    | Vin: 180V-300V, 300V-375V,The full load                                    |
| Load Regulation                          |             | 0.05          | 0.2         | %    | Carrying idler~The full load                                               |
| Temperature coefficient                  |             |               | 0.02        | %/℃  | The full load                                                              |
| Output voltage regulation capability     | 75          |               | 110         | %    | The full load                                                              |
| Output voltage protection point          | 6.03        |               | 6.47        | V    | Tc=25℃,carrying idler                                                      |
| Output current limiting protection point | 20.4        |               | 27          | A    |                                                                            |
| Short-circuit current                    | 14          |               | 27          | A    | Tc=25℃, Vo<250mV                                                           |
| Dynamics                                 |             |               |             |      |                                                                            |
| Peak deviation                           |             | 2             | 5           | %    | 50% -100% -50% load step<br>Rate of change of the output current: 1A / μ S |
| Recovery time                            |             | 100           | 200         | μs   |                                                                            |
| Operating voltage of the PC end          | 5.50        |               | 6.00        | V    | Tc=25℃,Ipc=1.0mA, The full load                                            |
| The PC terminal working current          | 2.5         |               | 4.5         | mA   | Tc=25℃,Vpc=5.5V, The full load                                             |
| The PC terminal has a prohibited voltage | 2.3         |               | 2.9         | V    | The full load                                                              |
| The PC terminal alarm voltage            | 0           |               | 0.5         | V    | Each protection function                                                   |
| PC terminal on output delay              |             | 5             | 7           | ms   | The full load                                                              |
| The PR output voltage amplitude          | 5.0         |               | 6.5         | V    | Tc=25℃, The full load                                                      |
| PR drive capability                      | 6           |               |             | A    | Tc=25℃,No buffer amplification circuit                                     |
| SC reference voltage                     | 1.21        | 1.23          | 1.25        | V    |                                                                            |
| SC alarm voltage                         |             |               | 0.5         | V    | Each protection function                                                   |
| Efficiency                               | 86.5        |               |             | %    | Tc=25℃, The full load                                                      |

## Isolation Characteristics

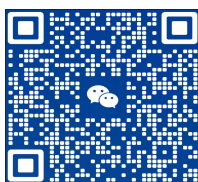
| Parameter                          | Least Value | Unit            | Working Conditions                                              |
|------------------------------------|-------------|-----------------|-----------------------------------------------------------------|
| Insulation and pressure resistance |             |                 |                                                                 |
| Enter to output                    | 3000        | V <sub>AC</sub> | 60s, T <sub>c</sub> =25℃, The leakage current is less than 3 mA |
| Input into the shell               | 1500        | V <sub>AC</sub> | 60s, T <sub>c</sub> =25℃, The leakage current is less than 1 mA |
| Output to shell                    | 500         | V <sub>AC</sub> | 60s, T <sub>c</sub> =25℃, The leakage current is less than 1 mA |
| Insulation resistance              |             |                 |                                                                 |
| Enter to output                    | 200         | MΩ              | T <sub>c</sub> =25℃, 500V <sub>DC</sub> test                    |
| Input into the shell               | 200         | MΩ              | T <sub>c</sub> =25℃, 500V <sub>DC</sub> test                    |
| Output to shell                    | 200         | MΩ              | T <sub>c</sub> =25℃, 500V <sub>DC</sub> test                    |

## Structural Rawings



## Pipe Foot Definition

| Pin | Symbol | Function                      | Pin | Symbol | Function                |
|-----|--------|-------------------------------|-----|--------|-------------------------|
| 1   | +IN    | Enter the positive end        | 5   | -OUT   | Output the negative end |
| 2   | PC     | The original edge control end | 6   | SC     | Secondary control end   |
| 3   | PR     | Parallel end                  | 7   | +OUT   | Output the positive end |
| 4   | -IN    | Enter the negative end        |     |        |                         |
|     |        |                               |     |        |                         |



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