

#### **Product Characteristics**

- Input voltage range: 18V-40V
- Output voltage range: 75%-110%Vout
- ◆ Efficiency≥87%
- Over-voltage, over-current, short-circuit and over-temperature protection
- Interior patch design
- International standard pin mode
- Three years warranty period



## **Product Overview**

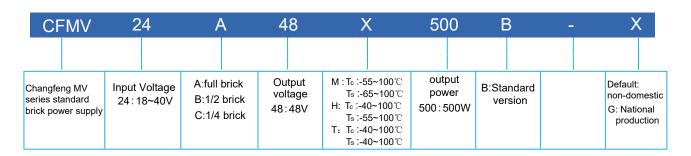
The power module of this model is 18V-40V range input, with a maximum power of 500W and an efficiency of 87%, with input undervoltage and output overvoltage Output overcurrent, output short circuit and over-temperature protection and other protection functions;

# **Application**

The power supply uses an advanced control topology circuit, with advanced power Processing control and packaging technology, with high efficiency, high power density 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	0.5~50	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	0.5~62.9	V

# **Product Naming**





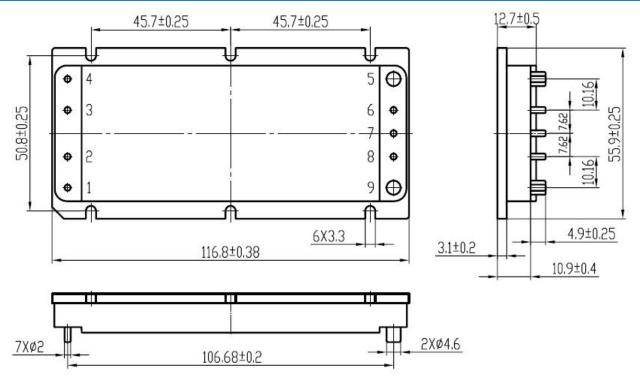
Input Characteristic					
Parameter	Least value	Typical value	e Crest value	Uuit	Working conditions
No-load state input power consumption			12	W	Tc=25℃
Disable the state input power consumption			4.5	W	Vpc≤2.3V
Input surge voltage			50	V	Tc=25 $^{\circ}$ C,100ms,the full load
Input underpressure	14.0	15.5	17.9	V	The full load
Input overpressure	40.5	42.2	43.5	V	Carrying idler

Output Characteristic						
Parameter	Least Value	Typical Value	Crest Value	Uuit	Working conditions	
Output current			10.42	Α		
Output voltage	47.52	48.00	48.48	V	Tc=25℃, The full load	
Winple and noise voltage		100	250	mV	Bandwidth Bw = 20 MHz,The full load	
Voltage regulation		0.05	0.2	%	Vin:18V-24V, 24V-40V, The full load	
Load Regulation		0.05	0.2	%	Carrying idler $\sim$ The full load	
Temperature coefficient			0.02	%/℃	Full load to no load	
Capacity load capacity			1000	μF	The full load	
Output voltage regulation capability	75		110	%	The full load	
Output voltage protection point	53.7	55.7	57.7	V	Tc=25℃,carrying idler	
Output current limiting protection point	10.6		14	Α		
Short-circuit current			14	Α	Tc=25℃, Vo<250mV	
Dynamics						
Peak deviation		2	5	%	50% -100% -50% load step  Rate of change of the output	
Recovery time		275	500	μs	current: 1A / μ S	
Operating voltage of the PC end	5.50		6.00	V	Tc=25℃,lpc=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	ge 0		0.5	V	Each protection function	
PC terminal on output delay		25	40	ms	The full load	
The PR output voltage ampli	tude 1.5		5.0	V	Tc=25℃, The full load	
SC reference voltage	1.21	1.23	1.25	V		
Efficiency	87			%	Tc=25℃, The full load	
Parallel current sharing accu	racy		5	%	N x (30% full load to 100% full load)	
Maximum number of parallel connections	6			Α		



Isolation Characteristics						
Parameter	Least value	Uuit	Working conditions			
Insulation and pressure resistance						
Enter to output	3000	Vac	60s,Tc=25℃,The leakage current is less than 3 mA			
Input into the shell	1500	Vac	60s, Tc=25℃,The leakage current is less than 1 mA			
Output to shell	500	Vac	60s, Tc=25℃,The leakage current is less than 1 mA			
Insulation resistance						
Enter to output	200	МΩ	Tc=25℃,500V <sub>DC</sub> test			
Input into the shell	200	МΩ	Tc=25℃,500V <sub>DC</sub> test			
Output to shell	200	МΩ	Tc=25℃,500V <sub>DC</sub> test			

# Structural Drawings



## **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	-S	Negative induction compensation end
3	PR	Parallel end	7	SC	Side control end
4	-IN	Enter the negative end	8	+S	Positive induction compensation end
			9	+OUT	Output the positive end