

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 protection, output Overcurrent protection, over-temperature 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	0.5~36.9	V

Product Naming

CFMV	24	A	28	X	500	B	-	X
Changfeng MV series standard brick power supply	Input Voltage 24 : 18~40V	A:full brick B:1/2 brick C:1/4 brick	Output voltage 28 : 28V	M : T _c :-55~100℃ T _s :-65~100℃ H: T _c :-40~100℃ T _s :-55~100℃ T: T _c :-40~100℃ T _s :-40~100℃	output power 500 : 500W	B:Standard version		Default: non-domestic G: National production

Input Characteristic

Parameter	Least value	Typical value	Crest value	Unit	Working conditions
No-load state input power consumption			12	W	T _c =25℃
Disable the state input power consumption			4.5	W	V _{pc} ≤2.3V
Input surge voltage			50	V	T _c =25℃, 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	Unit	Working conditions
Output current			17.9	A	
Output voltage	27.72	28.00	28.28	V	T _c =25℃, The full load
Windle and noise voltage		100	200	mV	Bandwidth Bw = 20 MHz, The full load
Voltage regulation		0.1	0.02	%	V _{in} : 18V-24V, 24V-40V, The full load
Load Regulation		0.1	0.02	%	Carrying idler~The full load
Temperature coefficient			0.02	%/℃	Full load to no load
Capacity load capacity			3000	μF	The full load
Output voltage regulation capability	75		110	%	The full load
Output voltage protection point	31.5	32.4	33.8	V	T _c =25℃, carrying idler
Output current limiting protection point	18.3		24.2	A	
Short-circuit current			24.2	A	T _c =25℃, V _o <250mV
Dynamics					
Peak deviation		2	5	%	50% -100% -50% load step Rate of change of the output current: 1A / μ S
Recovery time		275	500	μs	
Operating voltage of the PC end	5.50		6.00	V	T _c =25℃, I _{pc} =1.0mA, The full load
The PC terminal working current	2.5		4.5	mA	T _c =25℃, V _{pc} =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		25	40	ms	The full load
The PR output voltage amplitude	1.5		5.0	V	T _c =25℃, The full load
SC reference voltage	1.21	1.23	1.25	V	
Efficiency	87			%	T _c =25℃, The full load
Parallel current sharing accuracy			5	%	N x (30% full load to 100% full load)
Maximum number of parallel connections	6			A	

