

3 x 5 x 1.5 inch Open Frame 120/200W Single/Multi-Outputs Power Supply

Output Power : 120W (Convection) / 200W (Force Air)

Single Output : WP513F11-xx

Multi-Output : WP513F12/F13/F14 Series



Standard Features

- High Reliability, High Efficiency > 85% .
- Mini. Size, Low Profile 3" x 5" x 1.5"
- Built in EMI filter (VDE Level A).
- Low Leakage Current < 750uA.
- Convection Cooling Up To 120W.
- Short Circuit, Over Voltage and Over Current Protection on all outputs.

Application

- Auto Door System
- Currency Discriminator
- POS System
- LCD TV
- IPC
- Gaming
- Industrial Equipment

Electrical Specification

Input Specification:

- I/P Voltage Range: 90 – 264Vac
- I/P Frequency Range: 47~63Hz
- Leakage Current: < 750uA. At 230V / 50Hz
- Power Factor: 0.95 Typical , Complies with EN61000-3-2 Class D
- Efficiency: > 85%
- Hold Up Time: 16mS@120W , 2mS@200W

Output Specification:

- Output Voltage: Main O/P — 3.3V, 5V, 12V, 24V, 48V.
Aux. O/P — +12V
- Regulation: Main O/P --- ± 3% , Aux. O/P--- ± 5%.
- Ripple & Noise: All O/P --- 1%
- Over Current Protection: 130 ~ 200% For Main O/P
- Over Voltage Protection: 110 ~ 130% For Main O/P
- No Load Operating: Can Be Power Up, All O/P Within Regulation.
- Parallel Operating: Optional Only For Single O/P.

Safety compliant with:

- UL/CUL: UL 60950-1 2nd Edition ,
- CSA C22.2 NO. 60950-1-07, 2nd Edition
- CB: IEC 60950-1 2nd Edition
- TUV: EN60950-1

Safety Certified To:



ElectroMagnetic Compatibility

- Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024

EMI

- EN55022 Class A , Radio Interference(CISPR 22).
- FCC Part 15 , Subpart J Class A , 115VAc Operation.

Environmental:

- Operating Temperature: -20°C to 70°C
- Storage Temperature: -40°C to 85°C
- Relative Humidity: 5% to 95%

Reliability:

- MTBF > 50KHours

3 x 5 x 1.5 inch Open Frame 120/200W Single/Multi-Outputs Power Supply

[Single Output]

WP513F11-xx Without +12Vaux

Model No.	I/P Rating	Voltage	Regulation	Mini. Load	Max. Load(Convection)	Max. Load(Force Air)	O/P Power (Convection/Force Air)
WP513F11-12	100 ~ 240Vac	+12V	+/-3%	0A	10A	16.7A	120W / 200W
WP513F11-24	100 ~ 240Vac	+24V	+/-3%	0A	5A	8.33A	120W / 200W
WP513F11-48	100 ~ 240Vac	+48V	+/-3%	0A	2.5A	4.15A	120W / 200W

WP513F12-xx With +12Vaux/1A For System Cooling

Model No.	I/P Rating	Voltage	Regulation	Mini. Load	Max. Load(Convection)	Max. Load(Force Air)	O/P Power (Convection/Force Air)
WP513F12-12	100 ~ 240Vac	+12V	+/-3%	0A	10A	16.6A	120W / 200W
WP513F12-24	100 ~ 240Vac	+24V	+/-3%	0A	5A	8.33A	120W / 200W
WP513F12-48	100 ~ 240Vac	+48V	+/-3%	0A	2.5A	4.15A	120W / 200W

[Dual Output]

WP513F13-xyxy With +12Vaux/1A For System Cooling

Model No.	I/P Rating	Voltage	Regulation	Mini. Load	Max. Load(Convection)	Max. Load(Force Air)	O/P Power (Convection/Force Air)
WP513F13-1203	100 ~ 240Vac	+12V	+/-3%	0A	10A	16.6A	120W / 200W
		+3.3V	+/-3%	0A	8A	13.0A	
WP513F13-1205	100 ~ 240Vac	+12V	+/-3%	0A	10A	16.6A	120W / 200W
		+5.0V	+/-3%	0A	8A	13.0A	
WP513F13-2403	100 ~ 240Vac	+24V	+/-3%	0A	5A	8.33A	120W / 200W
		+3.3V	+/-3%	0A	6A	11A	
WP513F13-2405	100 ~ 240Vac	+24V	+/-3%	0A	5A	8.33A	120W / 200W
		+5.0V	+/-3%	0A	6A	11A	
WP513F13-2412	100 ~ 240Vac	+24V	+/-3%	0A	5A	8.33A	120W / 200W
		+12V	+/-3%	0A	3A	5A	
WP513F13-4812	100 ~ 240Vac	+48V	+/-3%	0A	2.5A	4.15A	120W / 200W
		+12V	+/-3%	0A	1A	2A	

[3 & 4 Output]

WP513F13-xyxy With +12Vaux/1A For System Cooling

Model No.	I/P Rating	Voltage	Regulation	Mini. Load	Max. Load(Convection)	Max. Load(Force Air)	O/P Power (Convection/Force Air)
WP513F13-1235	100 ~ 240Vac	+12V	+/-3%	0A	10A	16.6A	120W / 200W
		+3.3V	+/-3%	0A	8A	13.0A	
		+5.0V	+/-3%	0A	8A	13.0A	
WP513F13-2435	100 ~ 240Vac	+24V	+/-3%	0A	5A	8.33A	120W / 200W
		+3.3V	+/-3%	0A	6A	11A	
		+5.0V	+/-3%	0A	6A	11A	

WP513F14-xyxy Without +12Vaux

Model No.	I/P Rating	Voltage	Regulation	Mini. Load	Max. Load(Convection)	Max. Load(Force Air)	O/P Power (Convection/Force Air)
WP513F14-12-12	100 ~ 240Vac	+12V	+/-3%	0A	10A	16.6A	120W / 200W
		+3.3V	+/-3%	0A	8A	13.0A	
		+5.0V	+/-3%	0A	8A	13.0A	
		-12V	+/-5%	0A	1.0A	1.0A	