

AD2120CF Series

120Watts, Dual Output



Dimensions: 121(D)x75(W)x110(H) mm

Features

- High power density
- Convection cooled
- RoHS compliance
- 3 year warranty
- Great reliability
- DIN Rail / Wall bracket mounting solution
- Over voltage protection
- Overload protection
- Short circuit protection

Safety Standards



EN 60950 (Meet)

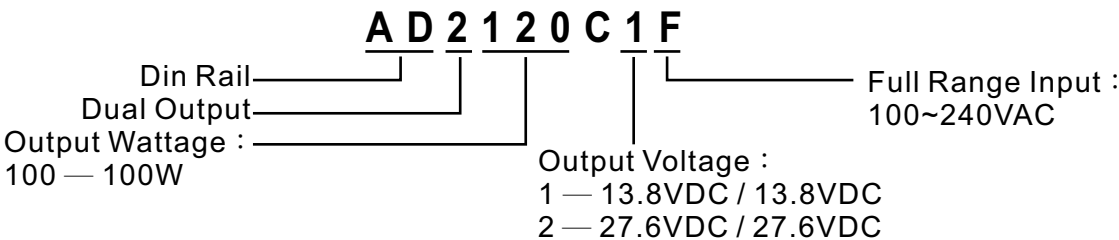
EMC Standards

EN55011	Class B
EN55022	Class B
EN61000-4-2	Level 3
EN61000-4-3	Level 3
EN61000-4-4	Level 3
EN61000-4-5	Level 3
EN61000-4-6	Level 3
EN61000-4-8	Level 3
EN61000-4-11	Level 3

Model List

Model	O/P Voltage Adjustment	Min.	Loading Rated	Max.	Ripple Noise	Efficiency	Over Voltage Protection
AD2120C1F	13.8VDC $\pm$ 10% 13.8VDC -----	0A	7.5A 1.5A	7.5A 1.5A	100mVp-p 100mVp-p	84%	15~17VDC -----
AD2120C2F	27.6VDC $\pm$ 10% 27.6VDC -----	0A	4.0A 0.5A	4.0A 0.5A	150mVp-p 150mVp-p	87%	27~30VDC -----

Model Encoding



Specification

General

Switching Frequency		85kHz
Isolation Voltage	Input-Output	3000VAC /4242VDC
	Input-FG	1500VAC/2121VDC
	Output-FG	500VAC/ 710VDC
Isolation Resistance		100MΩ when Input-Output @500VDC
Operating Temperature		-40°C~40°C ambient
Derating		2.5% per degree from 40°C to 60°C
Storage Temperature		-40°C to +85°C
Relative Humidity		5%~95% RH, Non-condensing.
Temperature Coefficient		±0.04% of output voltage per °C
MTBF		60,000hrs Min. Per MIL-HDBK-217F, 25°C GB
Attitude During Operation		2000m
Installation position		Vertical
Vibration		Random Vibration, 10~500Hz. 3 axise

Input

Input Voltage	100~240VAC/120~370VDC
Input Frequency	47~63Hz
Inrush Current (cold start)	22A/115VAC 44A/230VAC
Rated Input Current	3.5A Max., Vi=100~240VAC
Leakage Current	Input-output 0.25mA, Inout-FG 3.5mA

Output

Output Voltage accuracy	±1%
Minimun Load	0%
Line Regulation	±1%/±1%, measuring from low line to high line rated load
Load Regulation	±3%/±3%, measuring from 20% to 100% of rated load 230VAC input
Voltage Trim Range	±10%
Rated Continuous Loading	See model list
Hold Up Time	20mS Min., Full load@230VAC.
Turn On Time	1300mS
Rise Time	13mS
Fall Time	25mS

Specification

Output		
Transient Response	Recovery Time	2mS, Load change 50% to 100%
	Voltage Deviation	5%, Load change 50% to 100%
Efficiency		See model list, measuring at rated load and 230VAC input
Ripple and Noise		See model list, measuring by using a 0.1μF/630V metalize capacitor and a 47μF electrolytic capacitor parallel on the test point, at rated load and 230VAC input.
Protection		
Input Fuse		3.15A/250V
Internal Surge Load Protection		Varistor, IEC6100-4-5
Degree of Protection		IP20
Short Circuit Protection		Autorecovery
Over Voltage Protection		Autorecovery
Rated Over Load Protection		130~160%
Overload protection		Power limited

Back-up and Alarm signal function

Function Model	Battery Low	Back-up Off	Alarm Signal(1A relay dry contact)			
			AC OK	AC Fail	Battery Low	Battery OK
AD2120C1F	10~11V	9~10V	Relay short	Relay open	Relay short	Relay open
AD2120C2F	21~22V	20~21V	Relay short	Relay open	Relay short	Relay open

Derating Curve

