



# TEST DATA OF FDA50F-24

Regulated DC Power Supply  
May 18, 2026

Approved by : Takashi Kajii  
Design Manager

Prepared by : Ryoki Nakanishi  
Design Engineer

**COSEL CO.,LTD.**

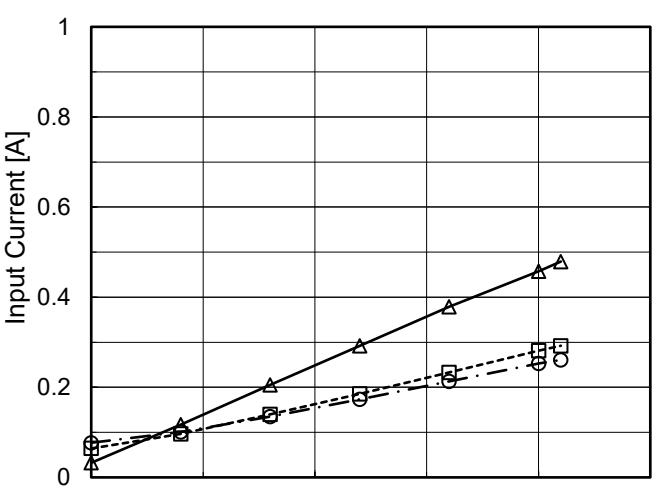


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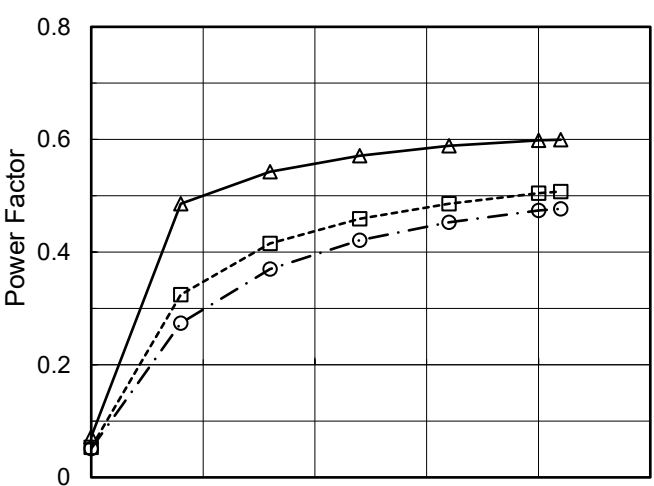
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Model		FDA50F-24	Temperature		25°C																																																			
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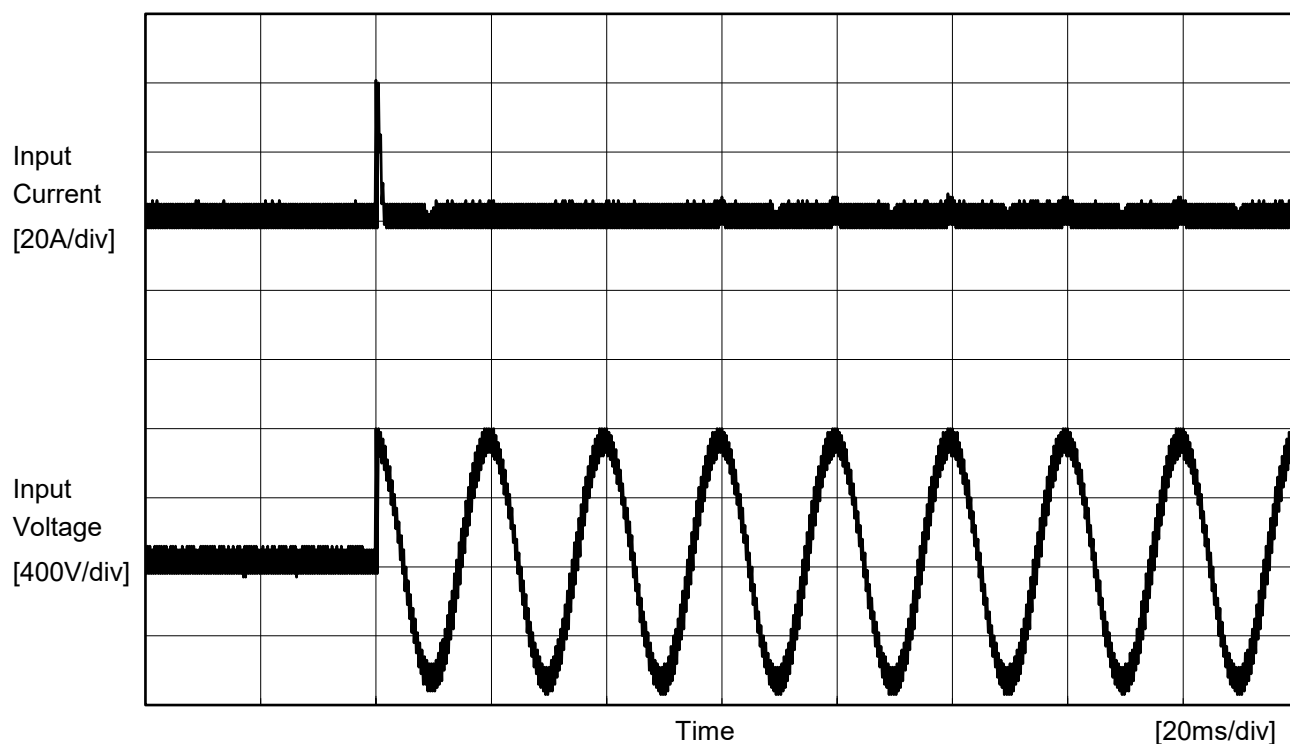
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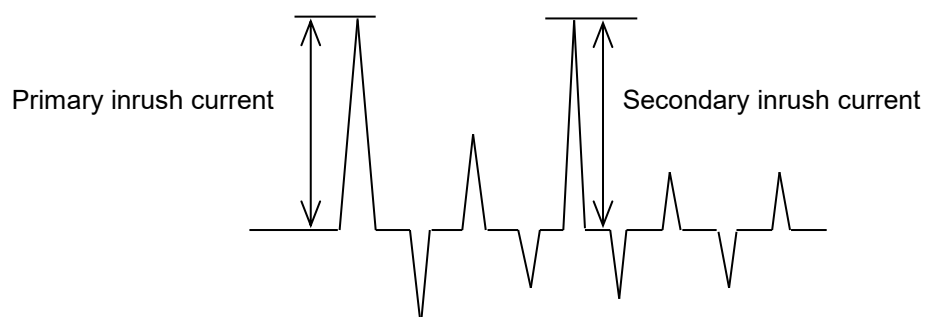
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Model	FDA50F-24	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current	
Object	_____	



Input Voltage 400 V  
Frequency 50 Hz  
Load 100 %

Primary inrush current 40.8 A  
Secondary inrush current 3.7 A





COSEL			
Model	FDA50F-24		
Item	Leakage Current	Temperature	25°C
Object	_____	Testing Circuitry	Figure C

## 1.Results

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			200 [V]	480 [V]	528 [V]	
IEC62368-1	Figure C-2	Both phases	0.16	0.40	0.44	Operation
		One of phases	0.29	0.72	0.80	Stand by
	Figure C-3	Both phases	0.16	0.40	0.44	Operation
		One of phases	0.29	0.72	0.80	Stand by

The value for "One of phases" is the reference value only.

## 2.Condition

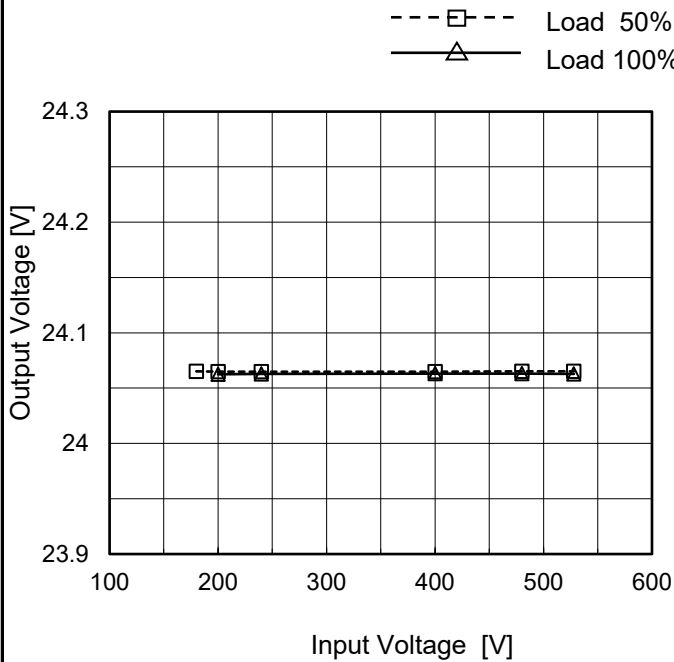
Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.



Model	FDA50F-24
Item	Line Regulation
Object	+24V2.1A

Temperature 25°C  
Testing Circuitry Figure A

1.Graph



2.Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
180	24.065	-
200	24.065	24.063
240	24.065	24.063
400	24.065	24.063
480	24.065	24.063
528	24.065	24.063
--	-	-
--	-	-
--	-	-

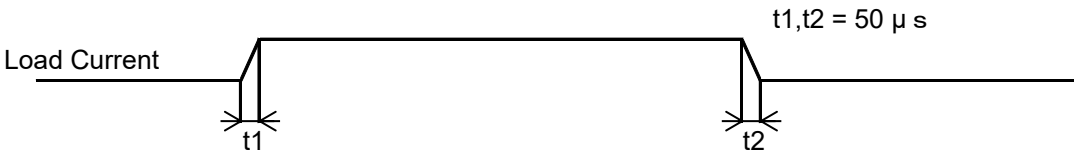
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<div><div><div>Input Voltage</div><div>Load</div></div><div><div>400V</div><div>100%</div></div></div> <div><div><div>10[mV/div]</div><div>20[ms/div]</div></div></div>																																																			
		BC-12245																																																	



Model	FDA50F-24	Temperature 25°C Testing Circuitry Figure A
Item	Dynamic Load Response	
Object	+24V2.1A	

Input Volt. 400 V  
Cycle 1000 ms



Min.Load (0A)←→  
Load 100% (2.1A)

100 mV/div

10 ms/div

10 ms/div

Load 50% (1.05A)←→  
Load 100% (2.1A)

100 mV/div

10 ms/div

10 ms/div

1. Graph

The figure displays six oscilloscope waveforms arranged in a 3x2 grid, showing the transient response of a power supply. The left column shows the response to a load change from 50% to 100%, and the right column shows the response to an input voltage change from 400V to 200V. Each column has three vertically stacked traces: Output Voltage, Input Voltage, and a common time axis.

**Left Column (Load Change):**

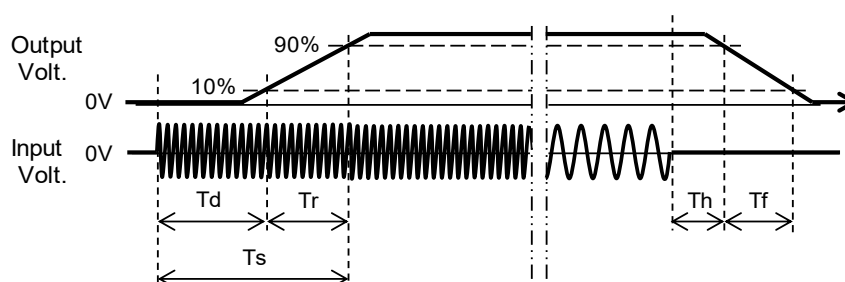
- Top Trace (Output Volt.):** Shows the output voltage. For Load 50%, the voltage rises from 0V to approximately 5V. For Load 100%, the voltage rises from 0V to approximately 10V. The scale is [5V/div].
- Middle Trace (Input Volt.):** Shows the input voltage. For Load 50%, the voltage is constant at approximately 5V. For Load 100%, the voltage is constant at approximately 10V. The scale is [200V/div].
- Bottom Trace (Time):** Shows the time axis. The scale is [100ms/div].

**Right Column (Input Voltage Change):**

- Top Trace (Output Volt.):** Shows the output voltage. For Input Volt. 400 V, the voltage is constant at approximately 5V. For Input Volt. 200 V, the voltage drops from approximately 5V to approximately 1V. The scale is [5V/div].
- Middle Trace (Input Volt.):** Shows the input voltage. For Input Volt. 400 V, the voltage is constant at approximately 5V. For Input Volt. 200 V, the voltage drops from approximately 5V to approximately 1V. The scale is [200V/div].
- Bottom Trace (Time):** Shows the time axis. The scale is [100ms/div].

## [ms]

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	50.5	13.0	63.5	238.5	144.5
100 %	51.0	14.0	65.0	119.0	72.0



**COSEL**

Model		FDA50F-24	Temperature		25°C
Item		Hold-Up Time	Testing Circuitry		Figure A
Object		+24V2.1A			
1.Graph			2.Values		
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# COSEL

# COSEL

Model		FDA50F-24	
Item		Overcurrent Protection	
Object		+24V2.1A	
1.Graph		2.Values	

△

Input Volt. 200V

□

Input Volt. 400V

○

Input Volt. 480V

Note: Slanted line shows the range of the rated load current.

Overcurrent protection is Hiccup mode.

Output Voltage [V]	Load Current [A]		
	Input Volt. 200[V]	Input Volt. 400[V]	Input Volt. 480[V]
24.0	3.68	4.42	4.88
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-
--	-	-	-



Model		FDA50F-24	Testing Circuitry    Figure A	
Item		Ambient Temperature Drift		
Object		+24V2.1A		
1.Values		Load 100%		
Ambient Temperature[°C]		Output Voltage [V]		
		Input Volt. 200V	Input Volt. 400V	Input Volt. 480V
-20		24.046	24.046	24.046
25		24.067	24.068	24.067
50		24.041	24.041	24.041

Item		Minimum Input Voltage for Regulated Output Voltage	Testing Circuitry    Figure A
Object		+24V2.1A	
1.Values			
Ambient Temperature[°C]		Input Voltage [V]	
		Load 50%	Load 100%
-20		118	132
25		108	123
50		104	121

Item		Overvoltage Protection	Testing Circuitry    Figure A
Object		+24V2.1A	
1.Values		Load 0%	
Ambient Temperature[°C]		Operating Point [V]	
		Input Volt. 200V	Input Volt. 480V
-20		30.11	30.11
25		31.23	31.23
50		31.81	31.81

- 13 -

BC-12245

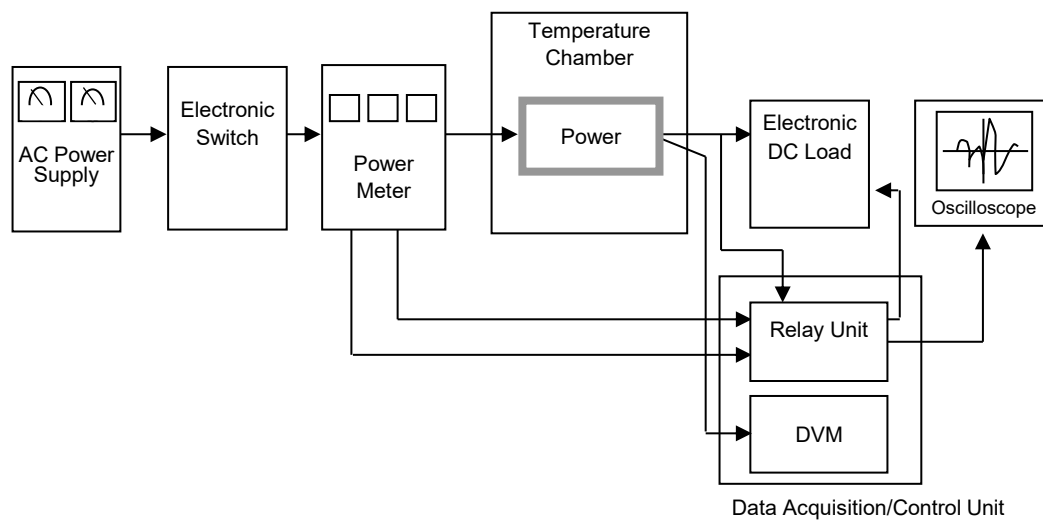


Figure A

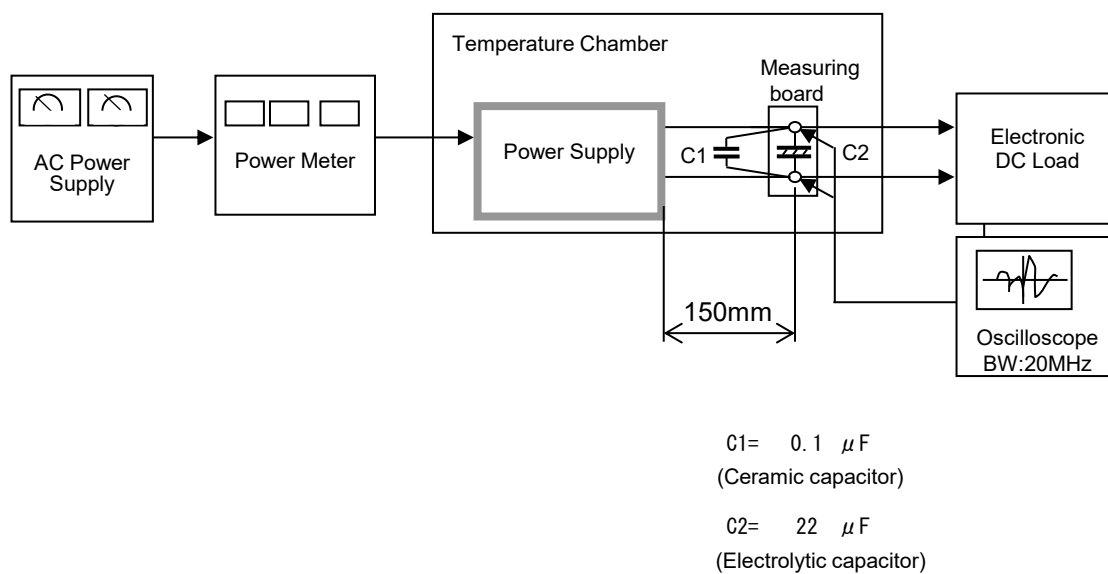


Figure B

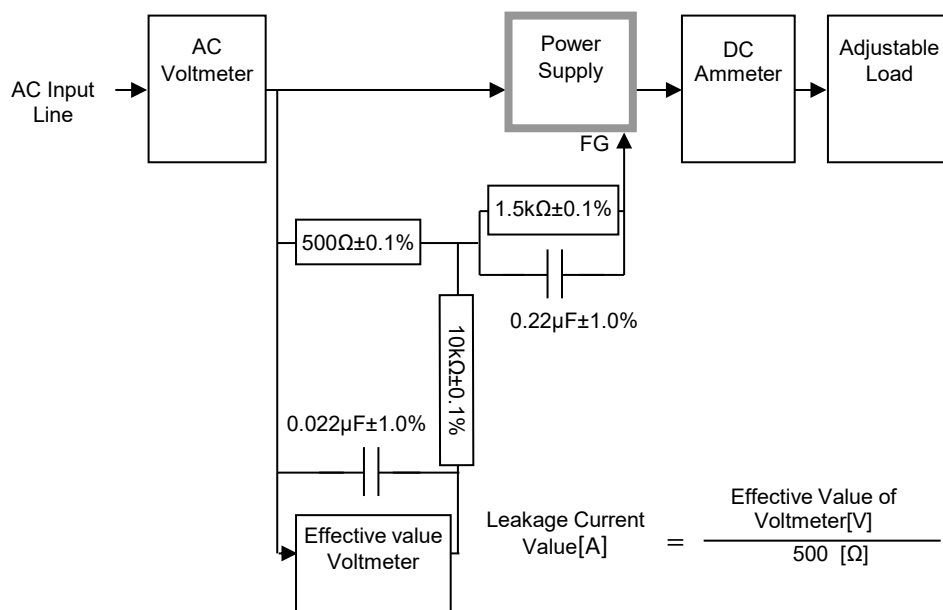


Figure C-2 ( IEC62368-1 refer to IEC60990 Fig.4 )

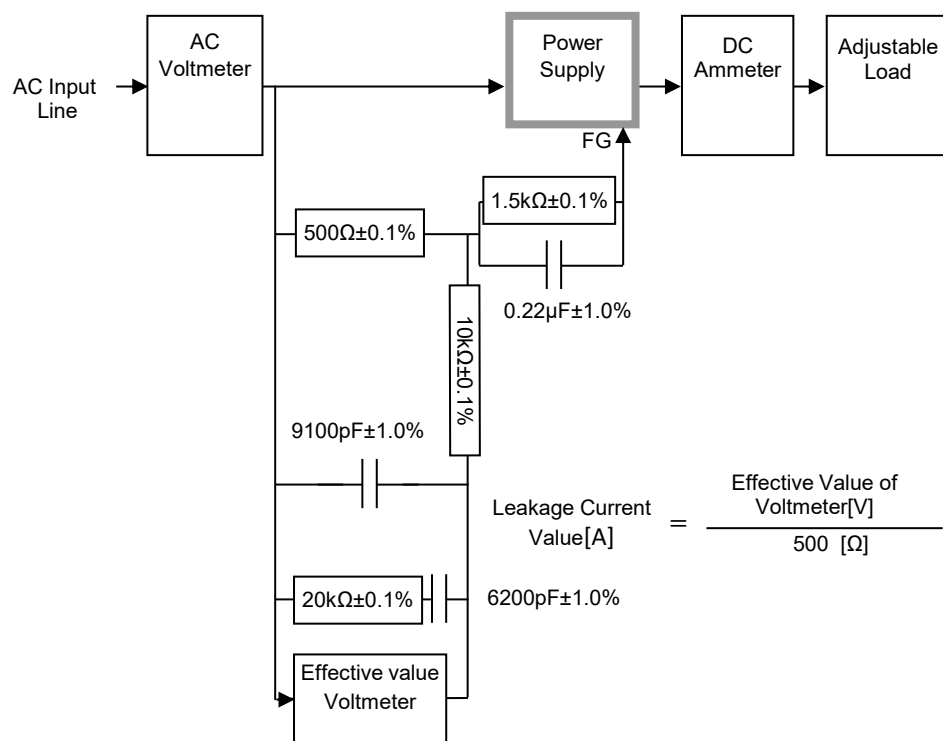


Figure C-3 ( IEC62368-1 refer to IEC60990 Fig.5 )