

TEST DATA OF AME400F

(200VAC INPUT)

Regulated DC power supply
August 21, 2019

Approved by : *Yoshimichi Hirokawa*
Yoshimichi Hirokawa Design Manager

Prepared by : *Takashi Yamamine*
Takashi Yamamine Design Engineer

INPUT : 170 - 264VAC

COSEL CO.,LTD.

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Model		AME400F		Temperature 25°C																																																				
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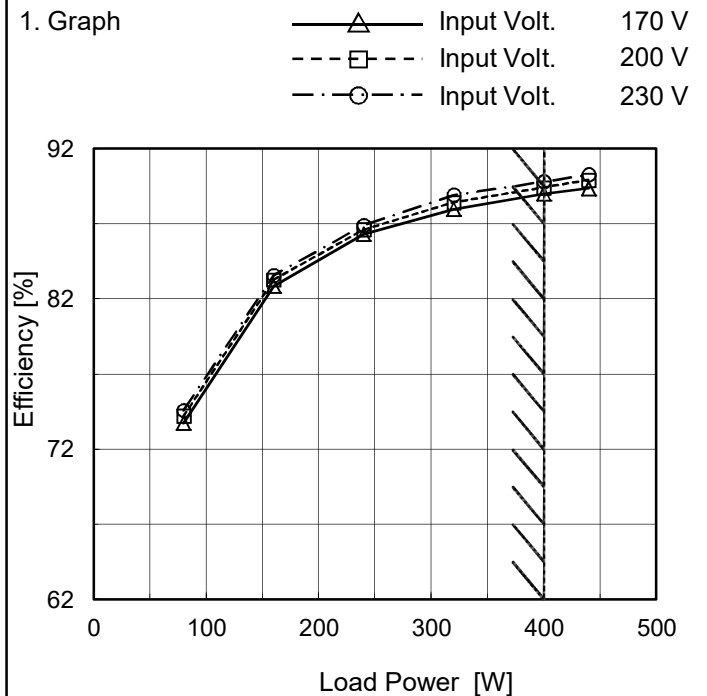


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Model	AME400F
Item	Efficiency (by Load Power)
Object	_____

Temperature 25°C
Testing Circuitry Figure A



2. Value

Load Power [W]	Efficiency [%]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 230[V]
0	--	--	--
80	73.7	74.2	74.6
160	82.9	83.3	83.6
240	86.3	86.6	86.9
320	88.0	88.4	88.9
400	89.0	89.4	89.8
440	89.4	89.9	90.3
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Note:
Hatched line shows the range of the rated load power.



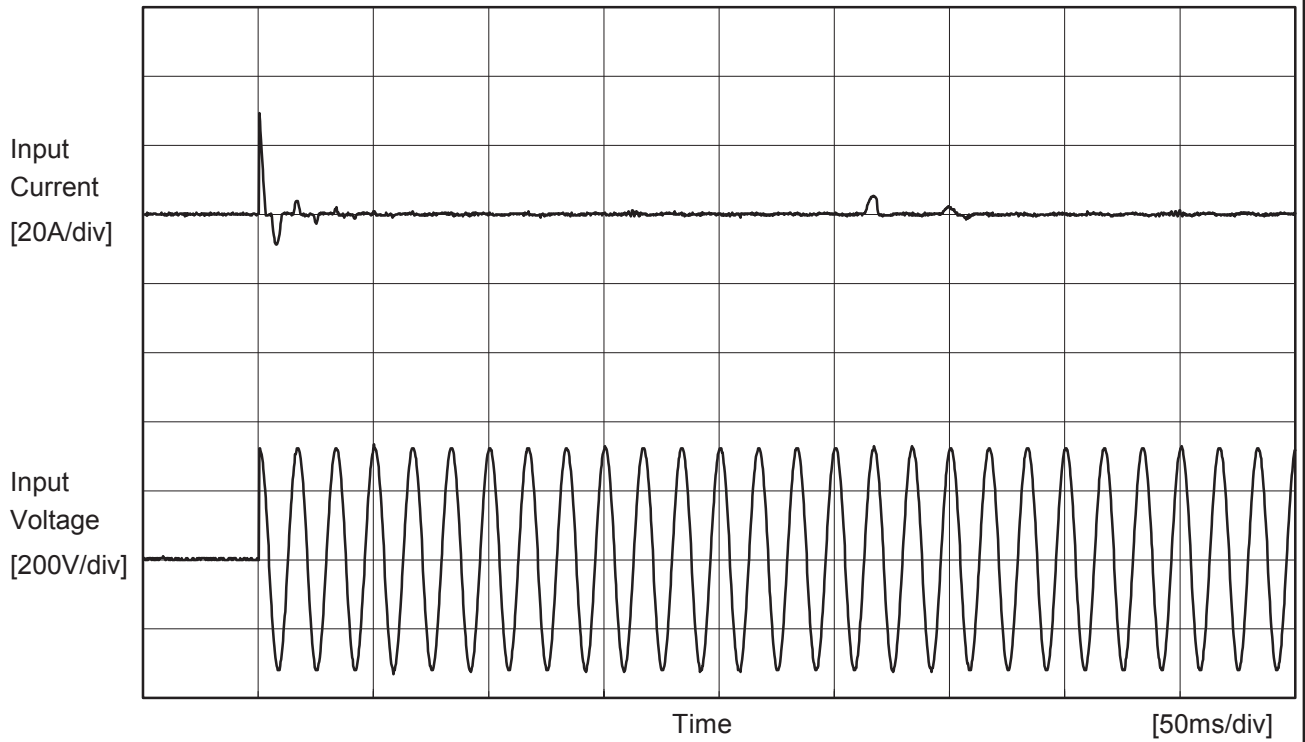
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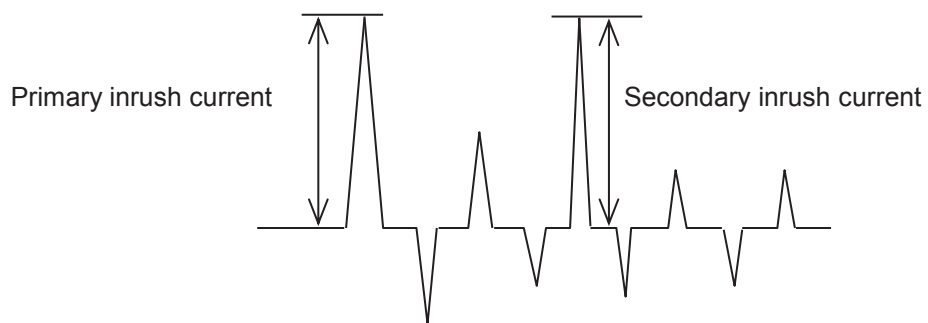
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Model		AME400F	Temperature 25°C Testing Circuitry Figure A
Item		Inrush Current	
Object		_____	



Input Voltage	200 V
Frequency	60 Hz
Load	100 %
Primary inrush current	29.4 A
Secondary inrush current	5.4 A





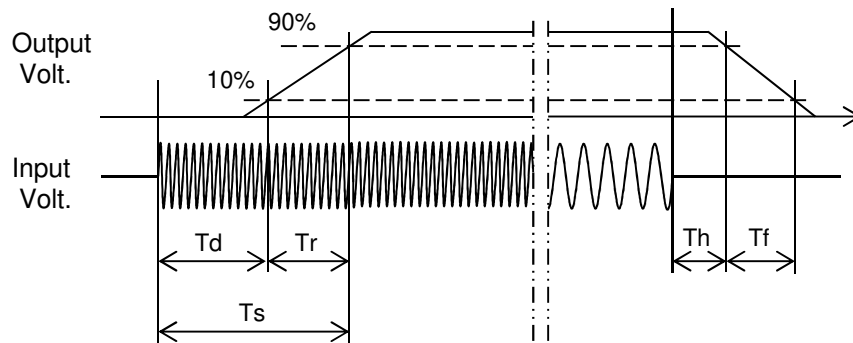
COSEL		Temperature 25°C Testing Circuitry Figure B
Model	AME400F	
Item	Leakage Current	
Object	_____	

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			170 [V]	200 [V]	230 [V]	
DEN-AN	Figure B-1	Both phases	0.12	0.15	0.17	Operation
		One of phases	0.24	0.27	0.31	Stand by
IEC62368-1	Figure B-2	Both phases	0.13	0.15	0.17	Operation
		One of phases	0.24	0.27	0.31	Stand by
	Figure B-3	Both phases	0.12	0.15	0.17	Operation
		One of phases	0.23	0.27	0.31	Stand by
IEC60601-1	Figure B-4	Both phases	0.12	0.15	0.17	Operation
		One of phases	0.24	0.27	0.31	Stand by

Note:

The value of "One of phases" is for reference only.
 The above value is the larger one of each phase of AC input.

COSEL			
Model	AME400F	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	_____		



Input Voltage 230V
 Load Power 100%

[ms]

Time	T_d	T_r	T_s	T_h	T_f
MODULE					
120W, SINGLE	788	6	794	23	1 - 9
240W, SINGLE	784	5	789	22	0 - 5
150W, DUAL	784	4	788	24	0.6



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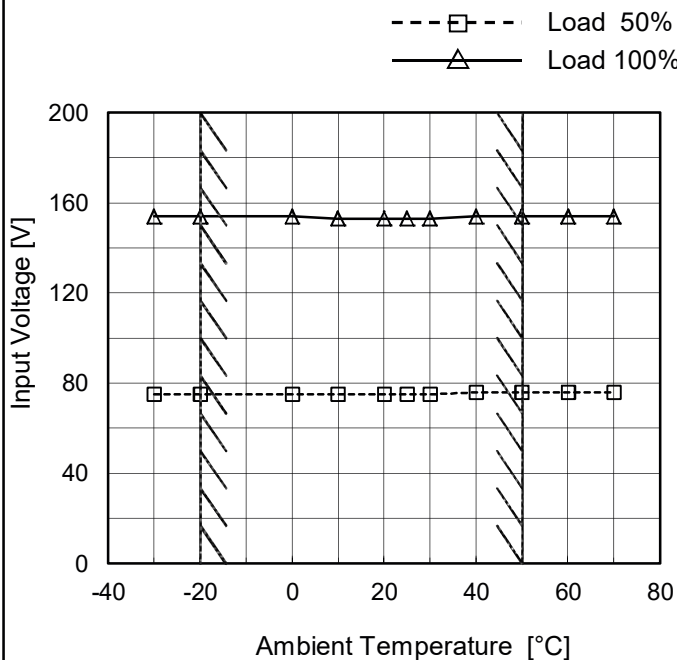
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<p>Note: Hatched line shows the range of the rated load power.</p>																																																						



Model	AME400F
Item	Minimum Input Voltage for Regulated Output Voltage
Object	_____

Testing Circuitry Figure A

1. Graph



2. Value

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-30	75	154
-20	75	154
0	75	154
10	75	153
20	75	153
25	75	153
30	75	153
40	76	154
50	76	154
60	76	154
70	76	154

Note:
 Hatched line shows the range of the rated operating temperature.

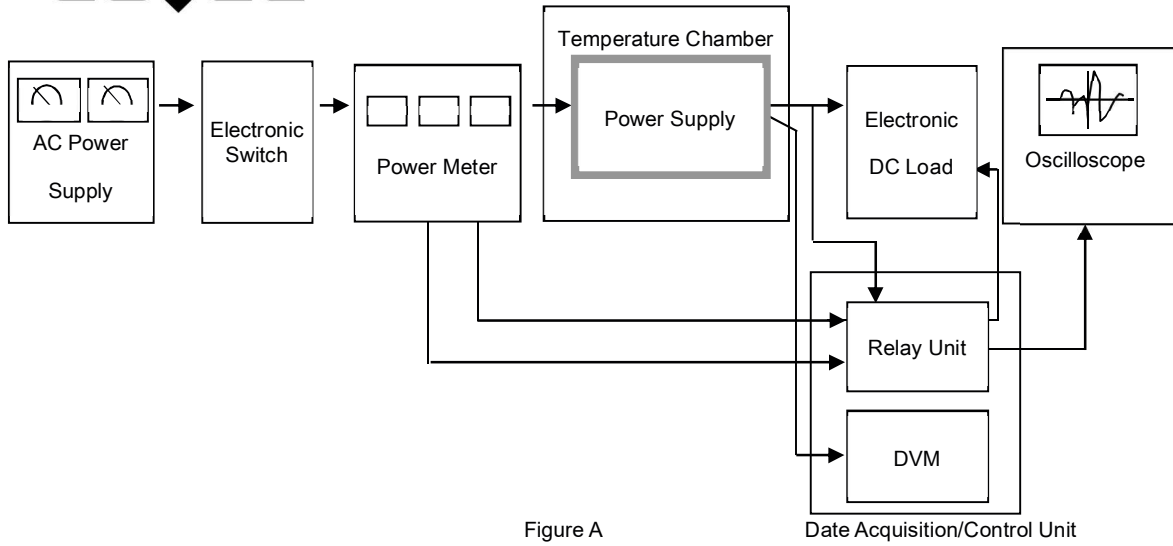


Figure A

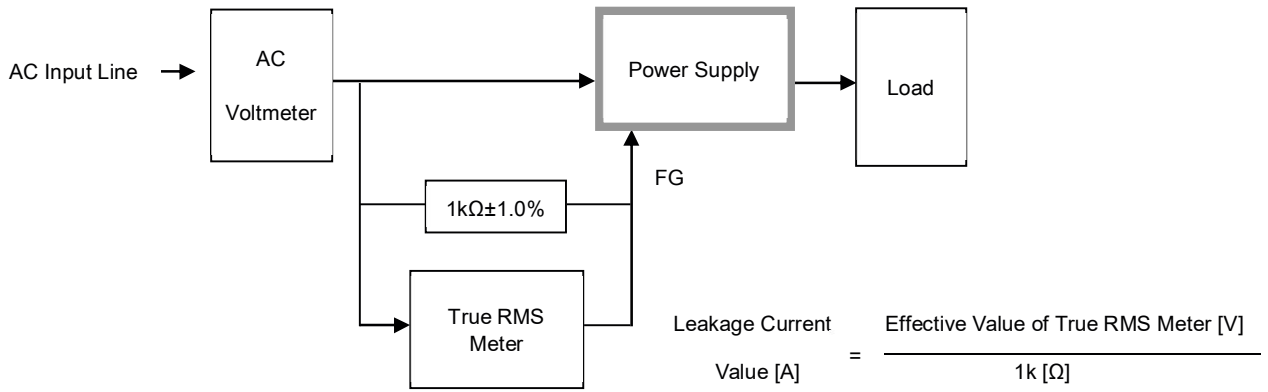


Figure B-1 (DEN-AN)

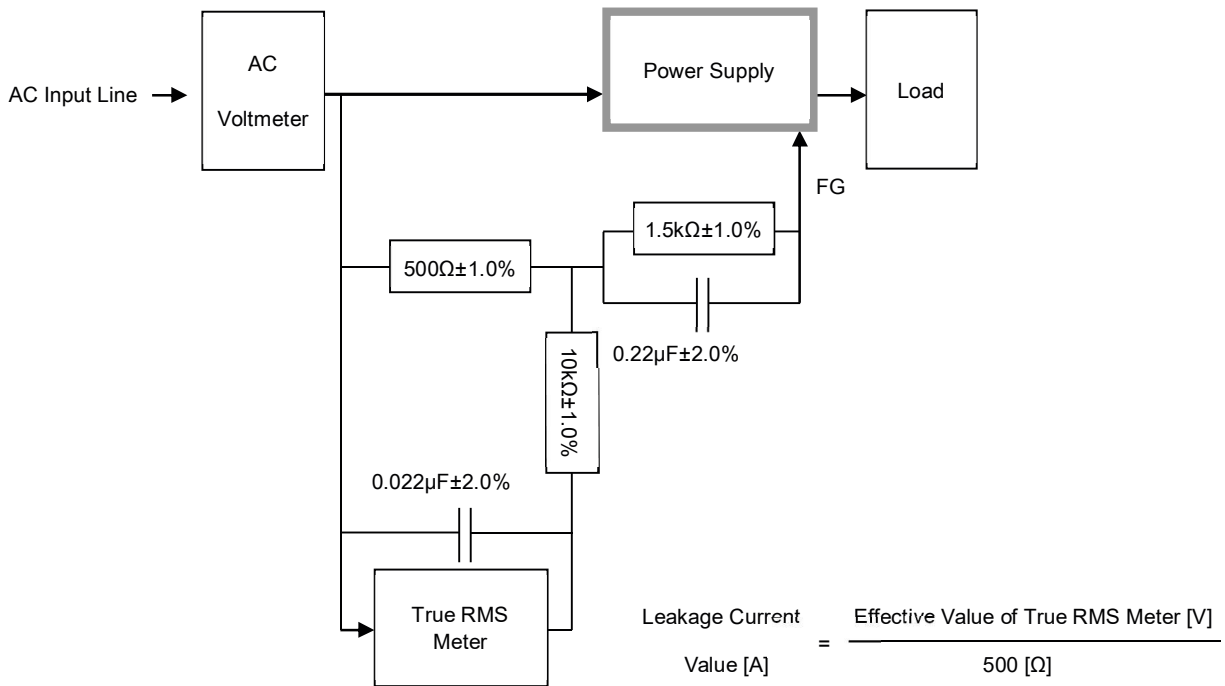


Figure B-2 (IEC62368-1 refer to IEC60990 Fig.4)

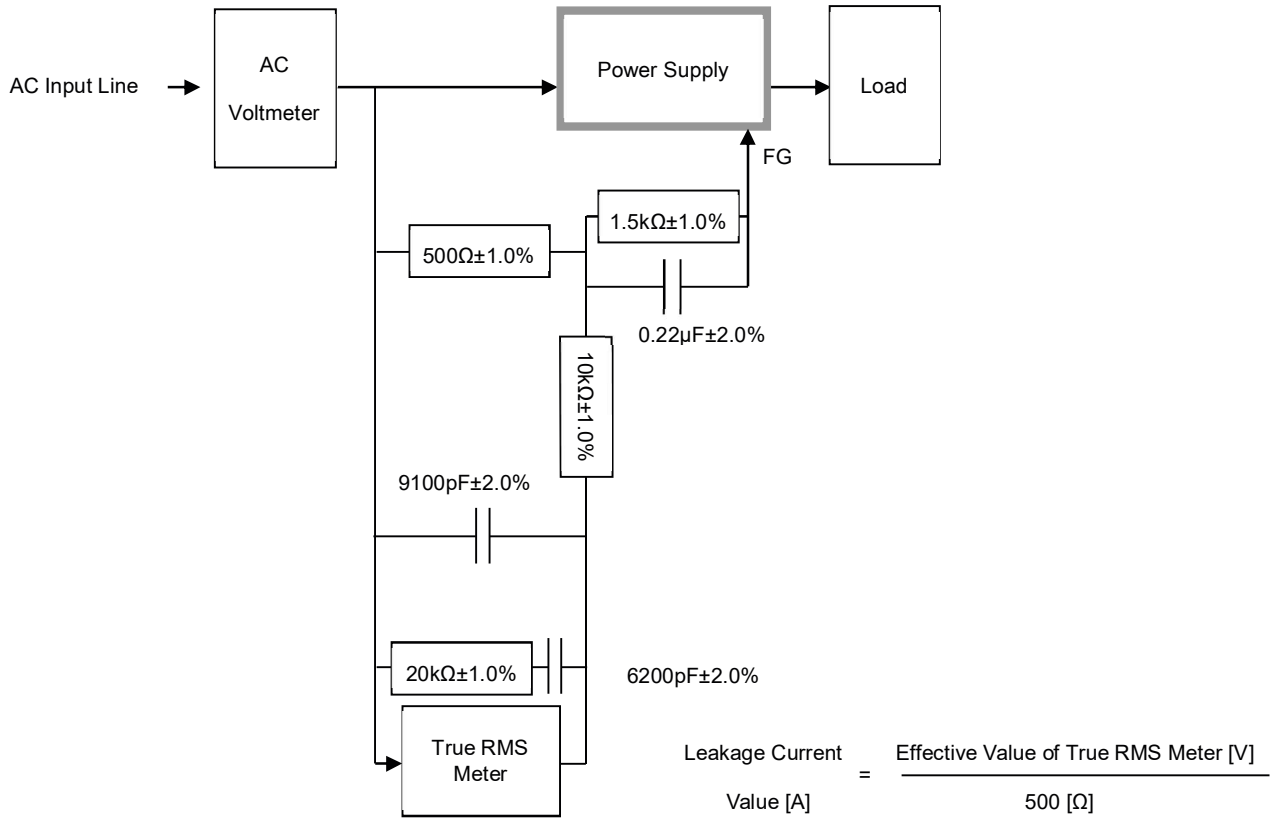


Figure B-3 (IEC62368-1 refer to IEC60990 Fig.5)

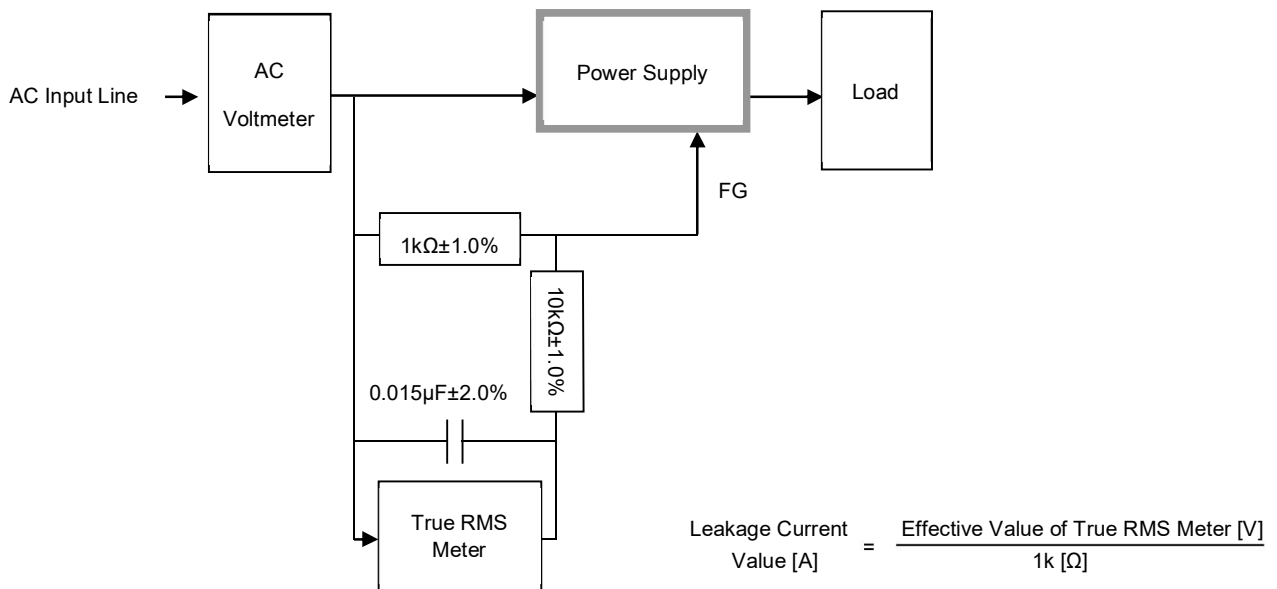


Figure B-4 (IEC60601-1)