

# TEST DATA OF AME800F

(100VAC 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 : 90 - 132VAC

**COSEL CO.,LTD.**

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<p>Model AME800F</p>		<p>Temperature 25°C Testing Circuitry Figure A</p>																																																			
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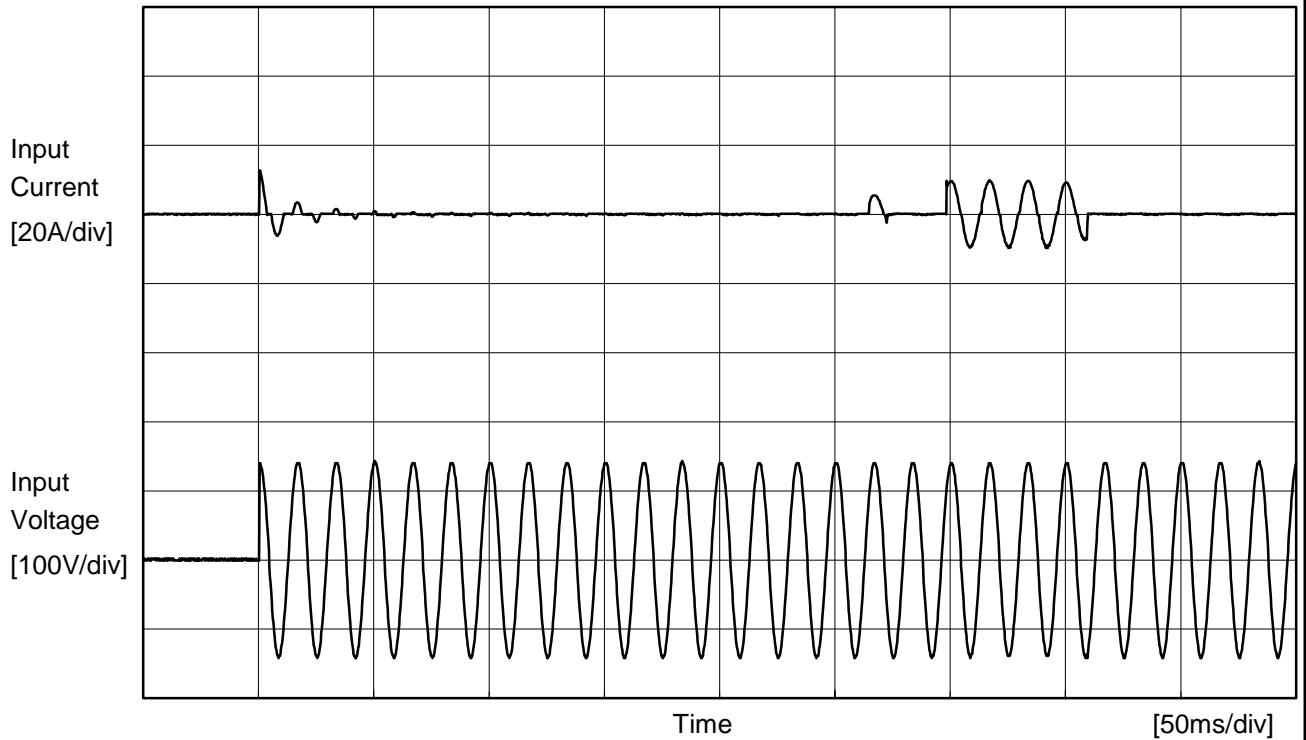


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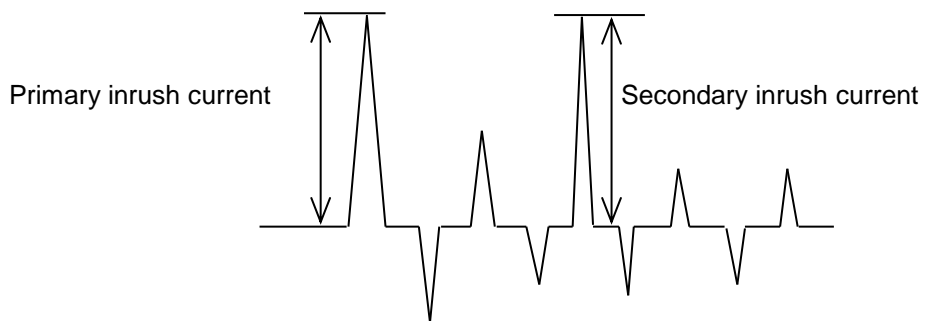




<b>COSEL</b>		
Model	AME800F	Temperature 25°C Testing Circuitry Figure A
Item	Inrush Current	
Object	_____	



Input Voltage	100 V
Frequency	60 Hz
Load	100 %
Primary inrush current	12.8 A
Secondary inrush current	9.9 A





<b>COSEL</b>		Temperature 25°C Testing Circuitry Figure B
Model	AME800F	
Item	Leakage Current	
Object	_____	

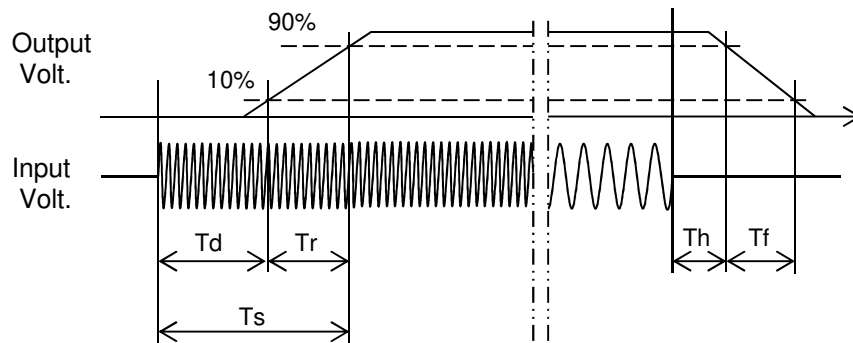
Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			90 [V]	100 [V]	132 [V]	
DEN-AN	Figure B-1	Both phases	0.06	0.08	0.09	Operation
		One of phases	0.12	0.16	0.17	Stand by
IEC62368-1	Figure B-2	Both phases	0.06	0.08	0.09	Operation
		One of phases	0.12	0.16	0.17	Stand by
	Figure B-3	Both phases	0.06	0.07	0.09	Operation
		One of phases	0.12	0.16	0.17	Stand by
IEC60601-1	Figure B-4	Both phases	0.06	0.08	0.09	Operation
		One of phases	0.12	0.16	0.17	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.



<b>COSEL</b>			
Model	AME800F	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100V  
 Load Power 100%

[ms]

Time	$T_d$	$T_r$	$T_s$	$T_h$	$T_f$
MODULE					
120W, SINGLE	792	6	798	24	1 - 8
240W, SINGLE	786	5	791	30	0.3 - 6
150W, DUAL	788	5	793	39	0.6



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<p>Note:</p> <p>Hatched line shows the range of the rated load power.</p> <p>"Hold-up time" is the amount of time a power supply can maintain output voltage within the range of the output voltage accuracy after a loss of input power.</p>																																																					



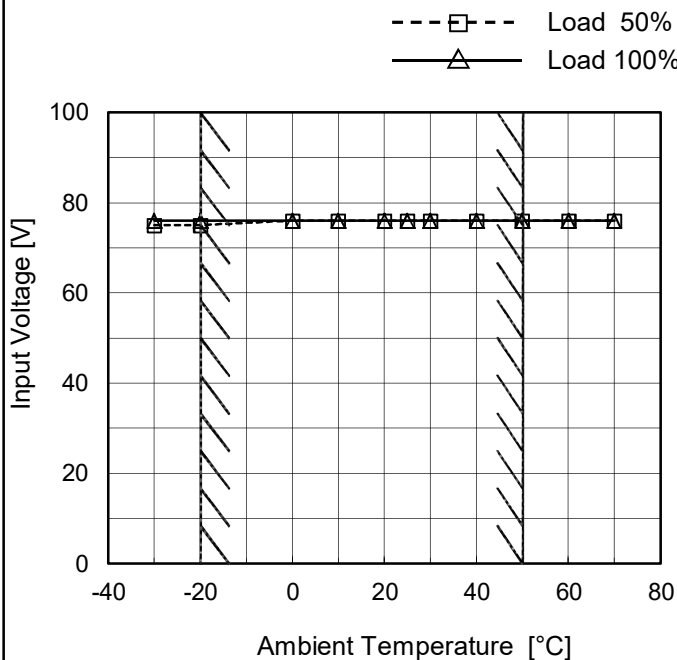
<p>Model AME800F</p>		<p>Temperature 25°C Testing Circuitry Figure A</p>																																																			
Item	Instantaneous Interruption Compensation																																																				
Object	_____																																																				
<p>1. Graph</p> <p>                     —△— Input Volt. 90V                      - - □ - - Input Volt. 100V                      · · ○ · · Input Volt. 132V                 </p> <p>Instantaneous Compensation Time [ms]</p> <p>Load Power [W]</p>		<p>2. Value</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="3">Time [ms]</th> </tr> <tr> <th>Input Volt. 90[V]</th> <th>Input Volt. 100[V]</th> <th>Input Volt. 132[V]</th> </tr> </thead> <tbody> <tr><td>0</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>120</td><td>114</td><td>114</td><td>121</td></tr> <tr><td>240</td><td>62</td><td>62</td><td>63</td></tr> <tr><td>360</td><td>40</td><td>40</td><td>40</td></tr> <tr><td>480</td><td>30</td><td>31</td><td>31</td></tr> <tr><td>600</td><td>22</td><td>23</td><td>23</td></tr> <tr><td>660</td><td>22</td><td>22</td><td>22</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> <tr><td>--</td><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>	Load Power [W]	Time [ms]			Input Volt. 90[V]	Input Volt. 100[V]	Input Volt. 132[V]	0	--	--	--	120	114	114	121	240	62	62	63	360	40	40	40	480	30	31	31	600	22	23	23	660	22	22	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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<p>Note: Hatched line shows the range of the rated load power.</p>																																																					



Model		AME800F
Item		Minimum Input Voltage for Regulated Output Voltage
Object		_____

Testing Circuitry Figure A

1. Graph



Note:

Hatched line shows the range of the rated operating temperature.

2. Value

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

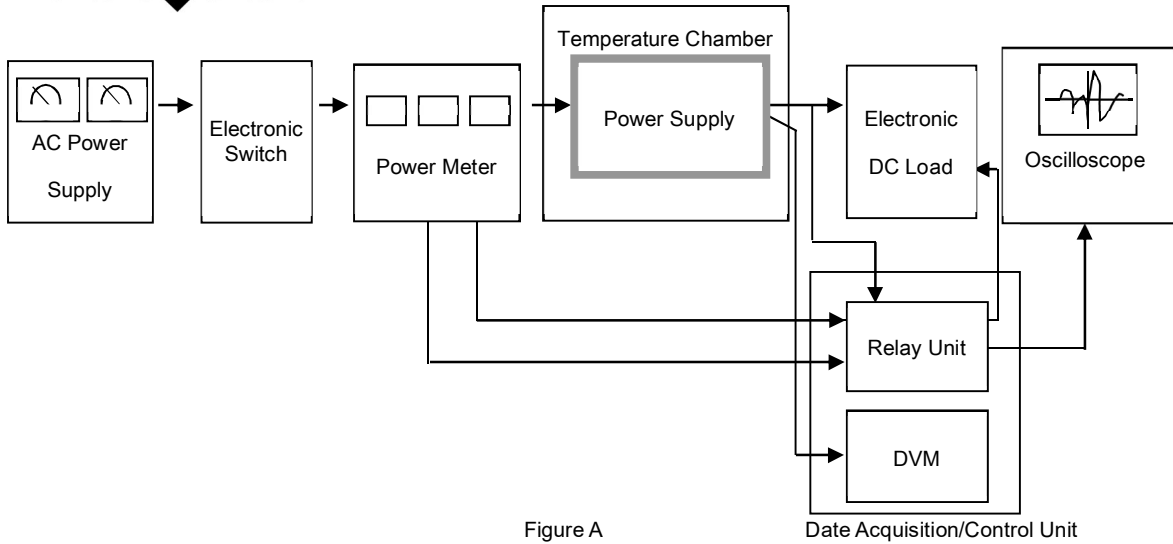


Figure A

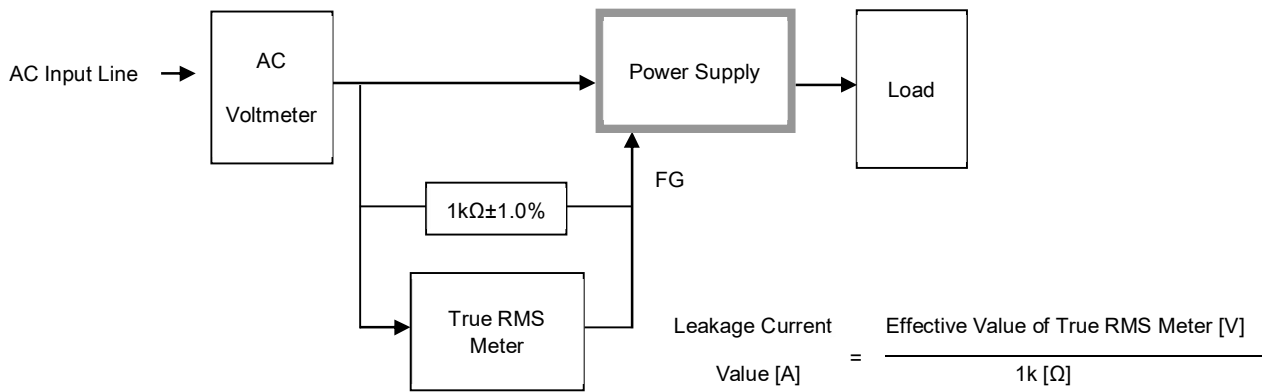


Figure B-1 (DEN-AN)

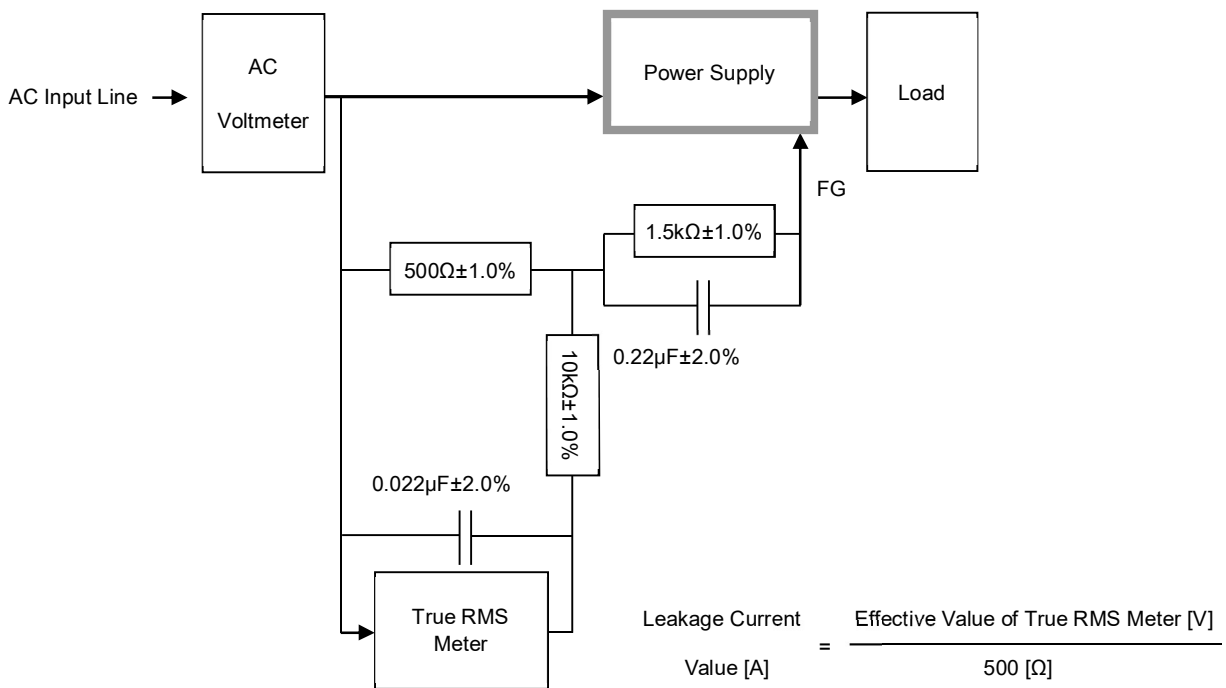


Figure B-2 (IEC62368-1 refer to IEC60990 Fig.4)

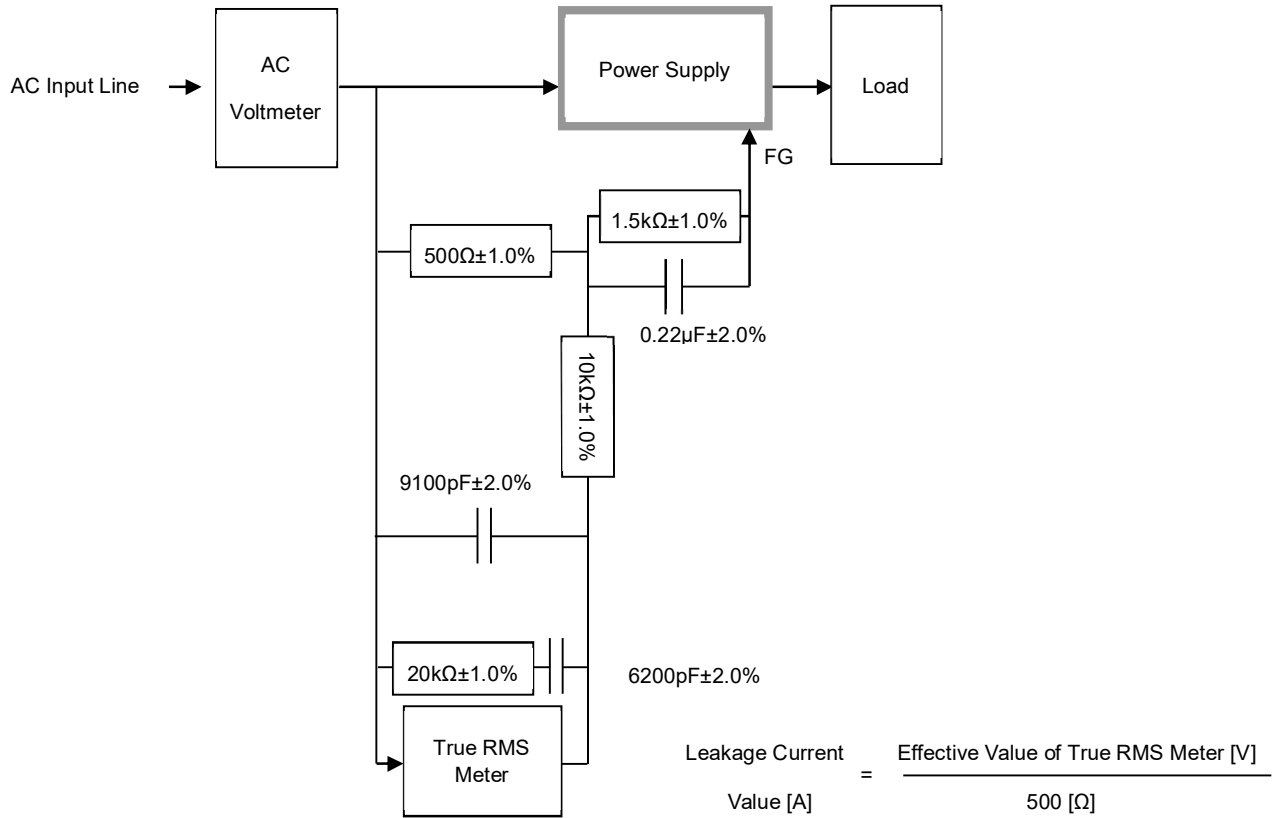


Figure B-3 ( IEC62368-1 refer to IEC60990 Fig.5)

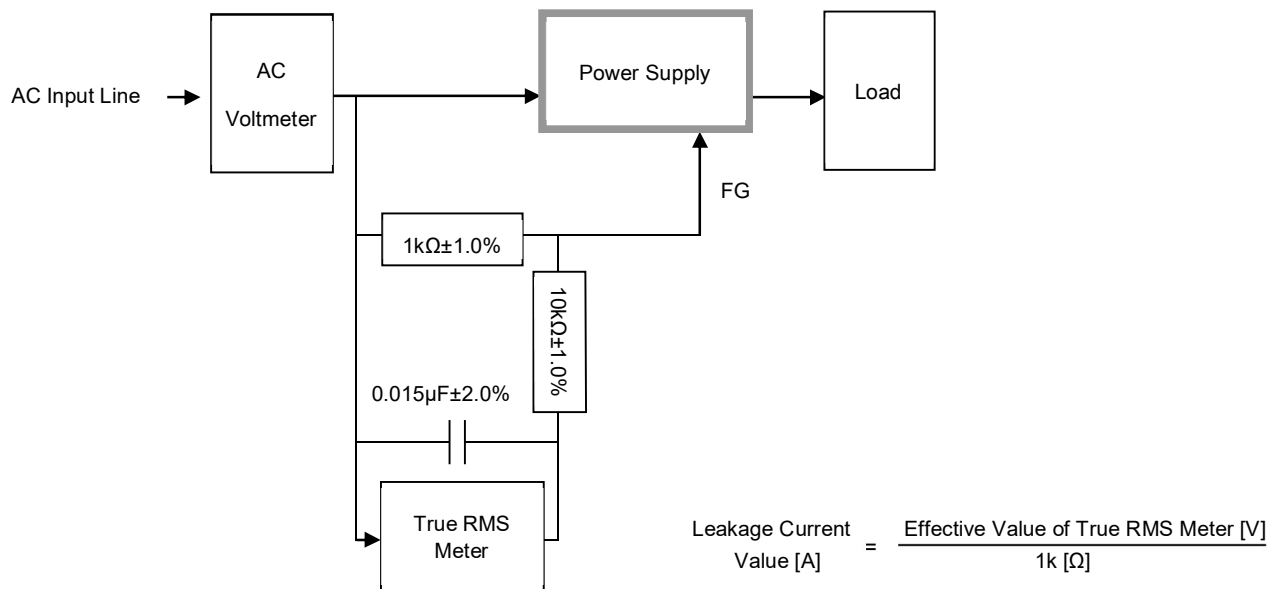


Figure B-4 ( IEC60601-1 )