



# TEST DATA OF R150-3 (100V INPUT)

Regulated DC Power Supply

Jan. 21, 2000

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Design Manager

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Design Engineer

コーセル株式会社  
COSEL CO., LTD.

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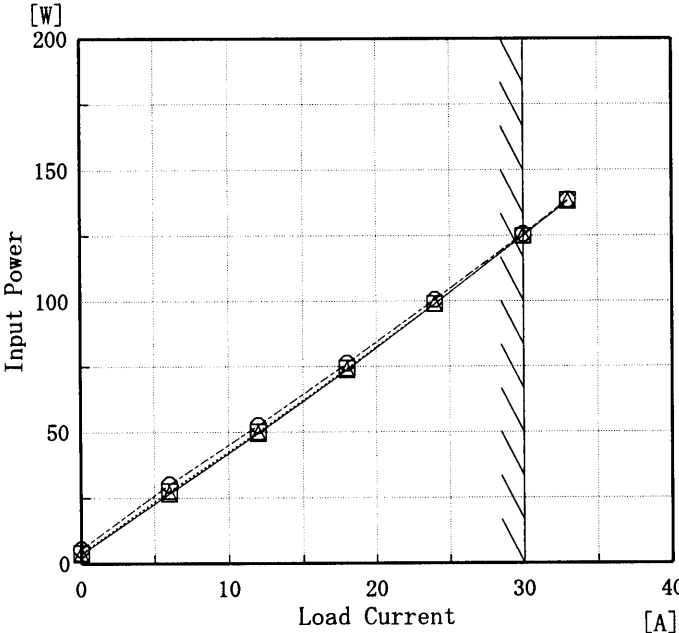
# COSEL

Model		R150-3		Temperature		25℃																																	
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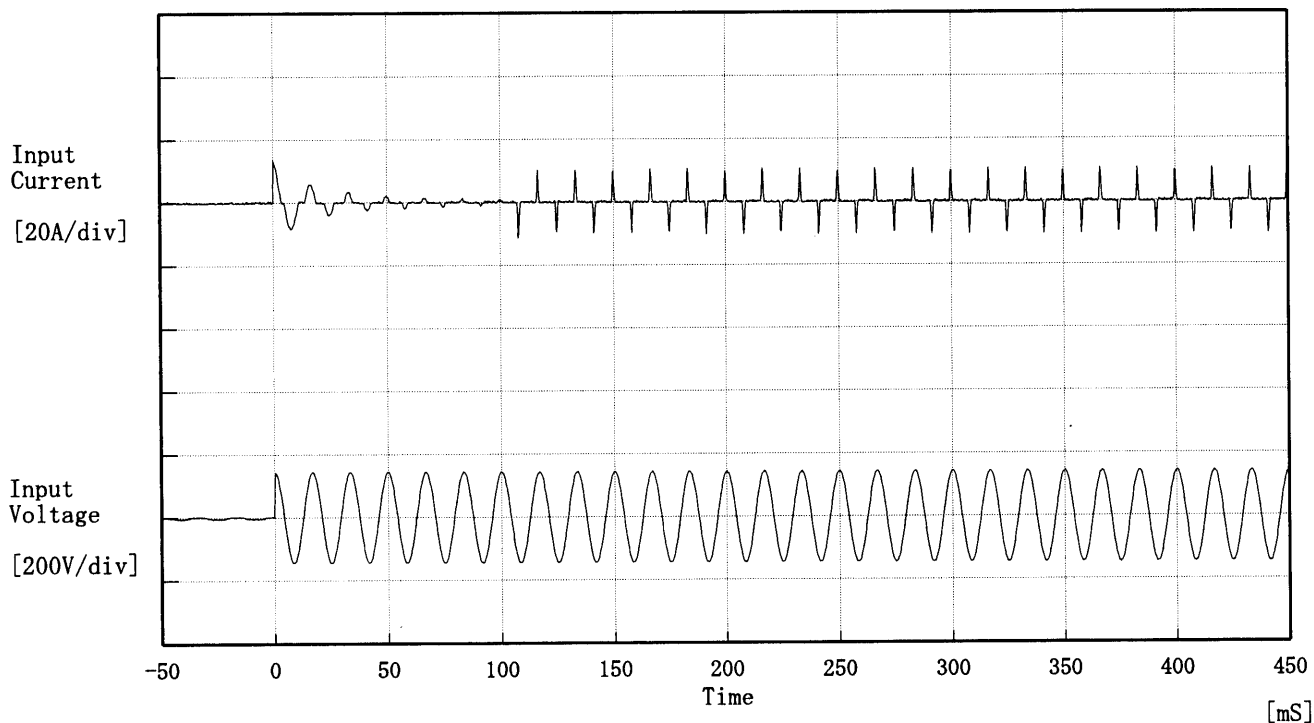
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Object		+3.0V30A																																																				
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# COSEL

Model		R150-3	Temperature		25℃																																																							
Item		Overcurrent Protection 過電流保護	Testing Circuitry		Figure A																																																							
Object		+3.0V30A																																																										
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# COSEL

Model	R150-3	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 100 V

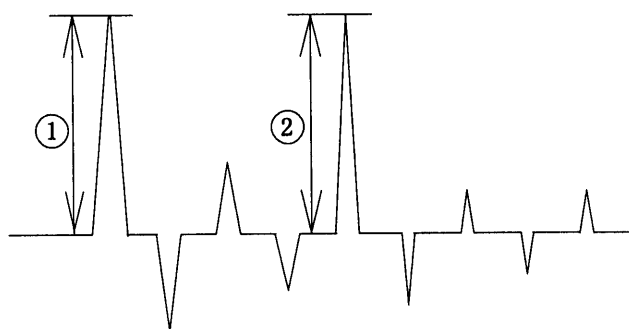
Frequency 60 Hz

Load 100 %

Inrush Current

① 13.37 [A]

② 11.43 [A]

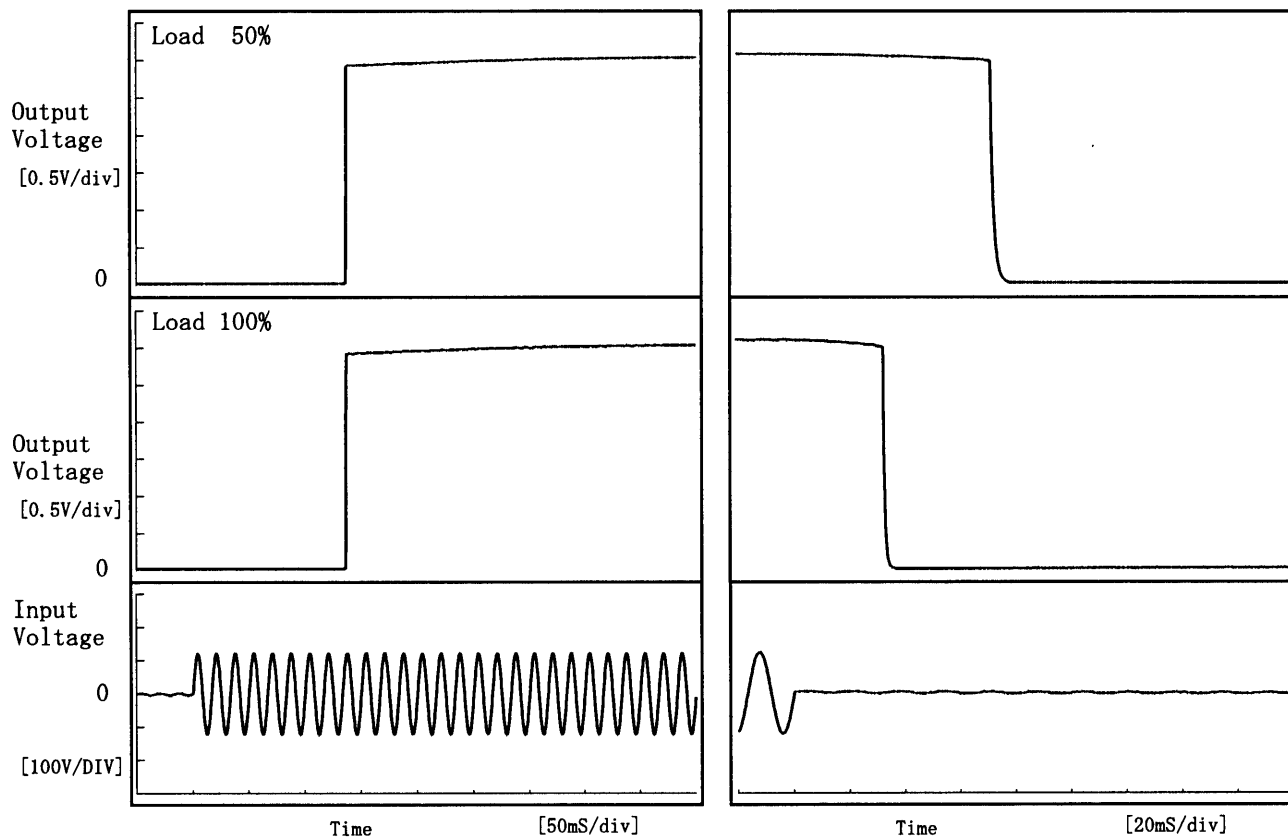


# COSEL

Model	R150-3	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	+3.0V30A		

## 1. Graph

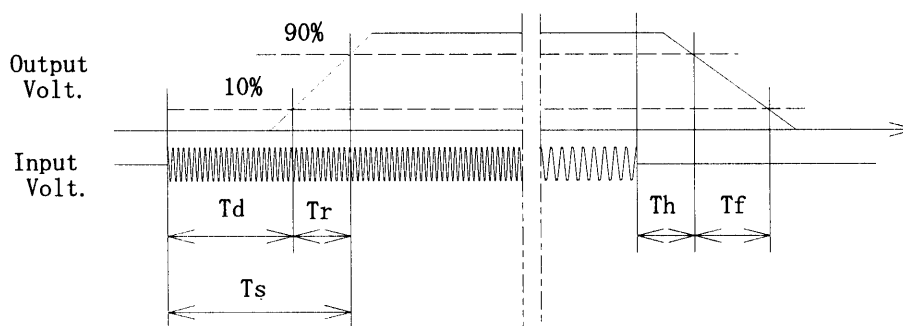
Input Volt. 85 V



## 2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
50 %	136.3	0.8	137.0	71.2	2.7
100 %	136.3	1.0	137.3	32.6	1.4



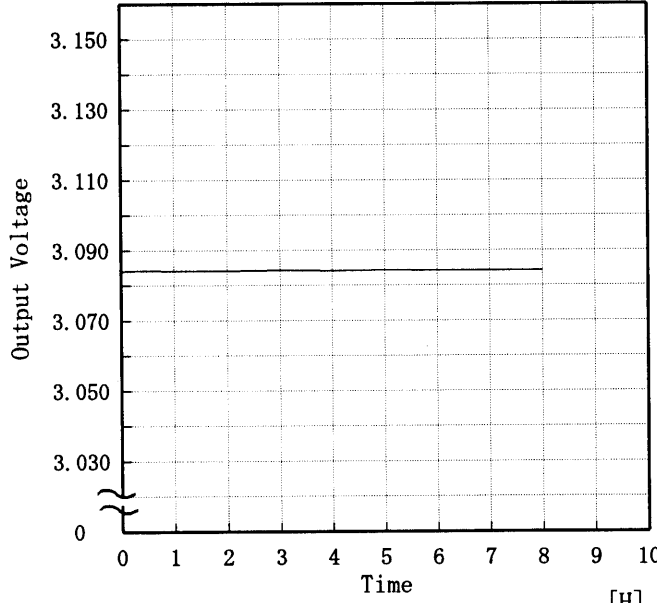
# COSEL

COSEL																																																				
Model	R150-3																																																			
Item	Ambient Temperature Drift 周囲温度変動																																																			
Object	+3.0V30A																																																			
1. Graph																																																				
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# COSEL

Model R150-3		Testing Circuitry Figure A																																						
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧																																							
Object	+3.0V30A																																							
<p>1. Graph</p> <p>[V]</p> <p>Input Voltage</p> <p>Ambient Temperature [°C]</p> <p>Load 50% (□)</p> <p>Load 100% (△)</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p> <p>(注) 斜線は定格周囲温度範囲を示す。</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Input Voltage [V]</th></tr> <tr> <th>Load 50%</th><th>Load 100%</th></tr> </thead> <tbody> <tr><td>-20</td><td>55</td><td>59</td></tr> <tr><td>-10</td><td>54</td><td>58</td></tr> <tr><td>0</td><td>53</td><td>57</td></tr> <tr><td>10</td><td>52</td><td>57</td></tr> <tr><td>20</td><td>52</td><td>57</td></tr> <tr><td>25</td><td>52</td><td>57</td></tr> <tr><td>30</td><td>51</td><td>56</td></tr> <tr><td>40</td><td>51</td><td>56</td></tr> <tr><td>50</td><td>51</td><td>56</td></tr> <tr><td>60</td><td>50</td><td>56</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	55	59	-10	54	58	0	53	57	10	52	57	20	52	57	25	52	57	30	51	56	40	51	56	50	51	56	60	50	56	—	—	—
Ambient Temperature [°C]	Input Voltage [V]																																							
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**COSEL**

COSEL																									
Model	R150-3	Temperature	25℃																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	+3.0V30A																								
1. Graph		2.Values																							
<div>[V]</div> <div></div> <div>Output Voltage [V]</div> <div>Time [H]</div> <div>Input Volt. 100V</div> <div>Load 100%</div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>3.084</td></tr><tr><td>0.5</td><td>3.084</td></tr><tr><td>1.0</td><td>3.084</td></tr><tr><td>2.0</td><td>3.084</td></tr><tr><td>3.0</td><td>3.084</td></tr><tr><td>4.0</td><td>3.084</td></tr><tr><td>5.0</td><td>3.084</td></tr><tr><td>6.0</td><td>3.084</td></tr><tr><td>7.0</td><td>3.084</td></tr><tr><td>8.0</td><td>3.084</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	3.084	0.5	3.084	1.0	3.084	2.0	3.084	3.0	3.084	4.0	3.084	5.0	3.084	6.0	3.084	7.0	3.084	8.0	3.084
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6.0	3.084																								
7.0	3.084																								
8.0	3.084																								



Model		R150-3	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	
Object		+3.0V30A	

### 1. Output Voltage Accuracy

This is defined as the value of the output voltage, regulation load, ambient temperature and input voltage varied at random in the range as specified below.

Temperature : -10~50 °C

Input Voltage : 85~132 V

Load Current : 0~30 A

\* Output Voltage Accuracy =  $\pm (\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

\* Output Voltage Accuracy (Ration) =  $\frac{\text{Output Voltage Accuracy}}{\text{Rated Output Voltage}} \times 100$

### 1. 定電圧精度

周囲温度、入力電圧、負荷電流を下記仕様内で、任意に変動させたときの出力電圧の変動をいう。

周囲温度 -10~50 °C

入力電圧 85~132 V

負荷電流 0~30 A

\* 定電圧精度(変動値) =  $\pm (\text{出力電圧の最高値} - \text{出力電圧の最低値}) / 2$

\* 定電圧精度(変動率) =  $\frac{\text{変動値}}{\text{定格出力電圧}} \times 100$

### 2. Values

Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	25	85	0	3.085	±3	±0.1
Minimum Voltage	-10	132	30	3.081		

COSEL

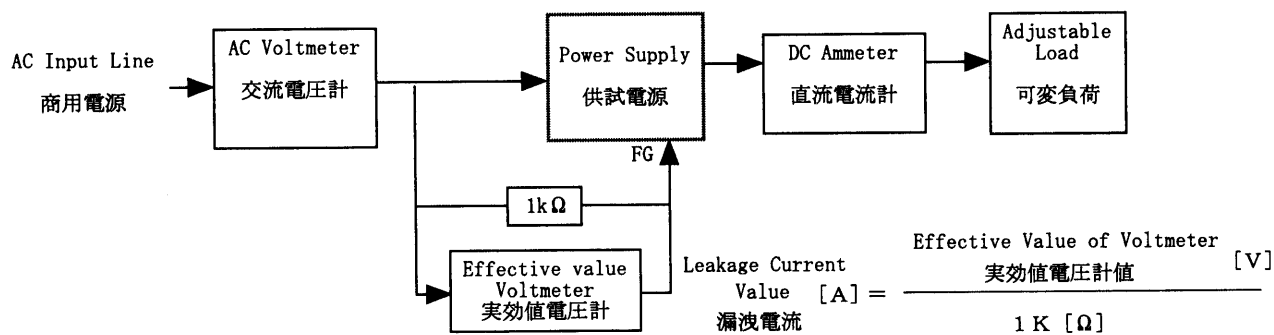
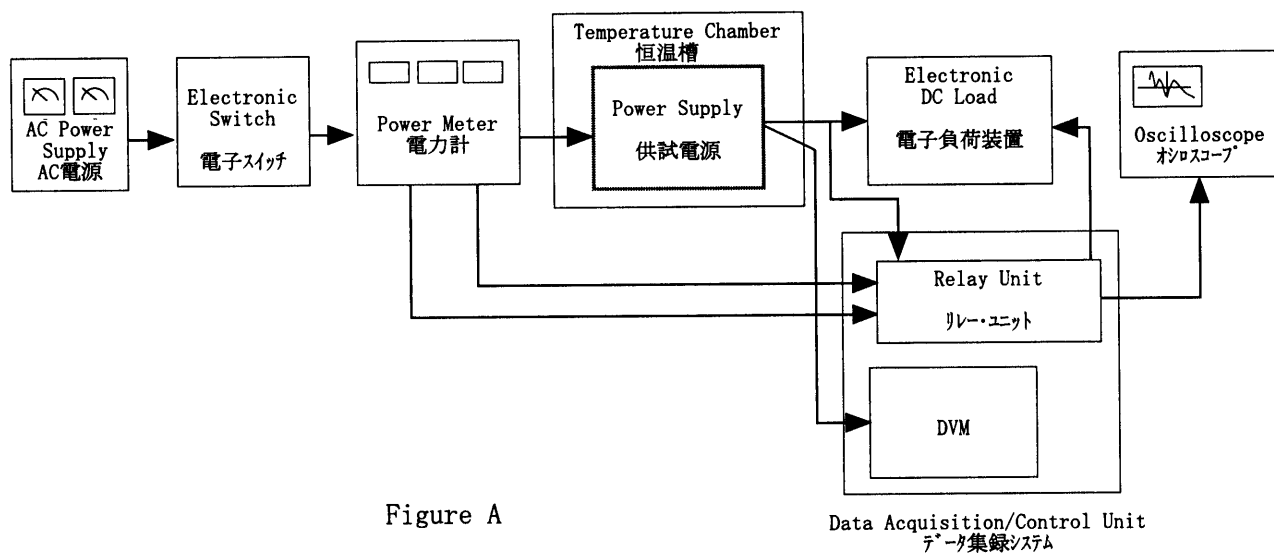


Figure B (DENTORI)

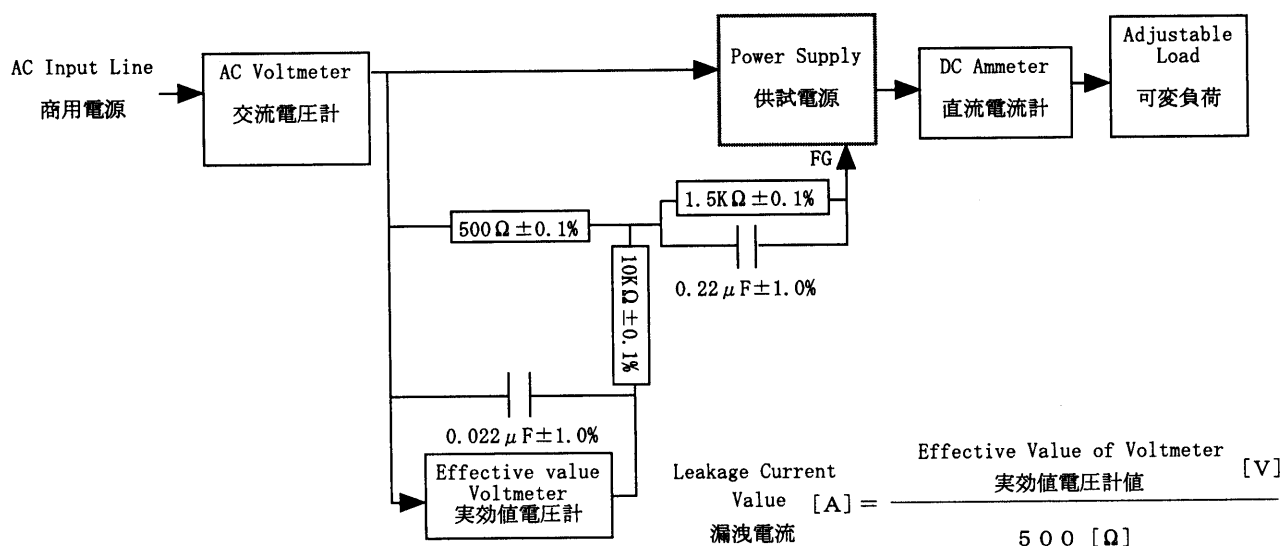


Figure B (IEC 60950)

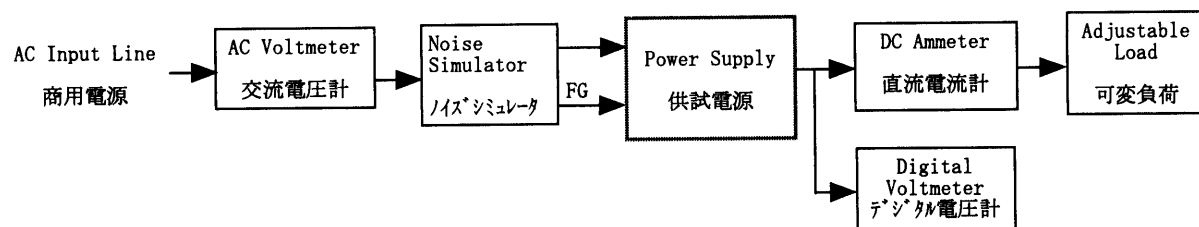


Figure C

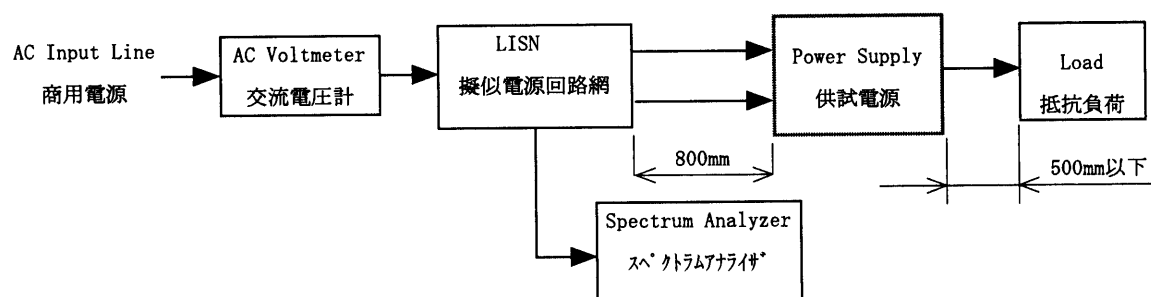


Figure D

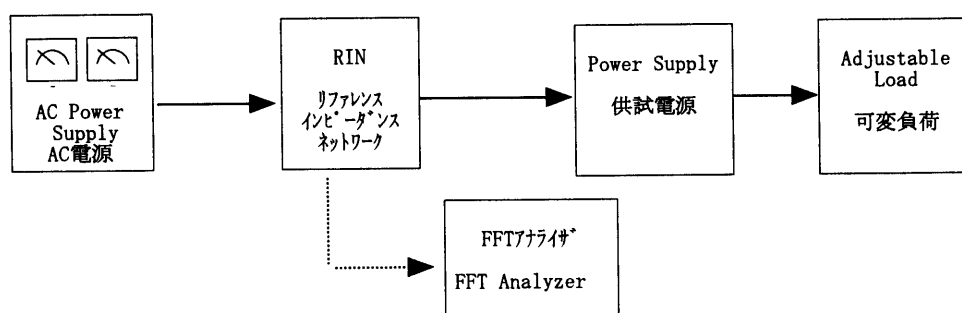


Figure E