



TEST DATA OF MAX1600F
M1F-IHGF-00
(200V INPUT)

Modular power supply

Oct. 10, 2000

Approved by : Hajime Goto
Hajime Goto Design Manager

Prepared by : Yuichi Takahashi
Yuichi Takahashi Design Engineer

INPUT : AC 170~264 V

OUTPUT : V1: 15.0 V 27 A
V2: 18.0 V 22 A
V3: 24.0 V 17 A
V4: 28.0 V 14.5 A

コーセル株式会社
COSEL CO., LTD.



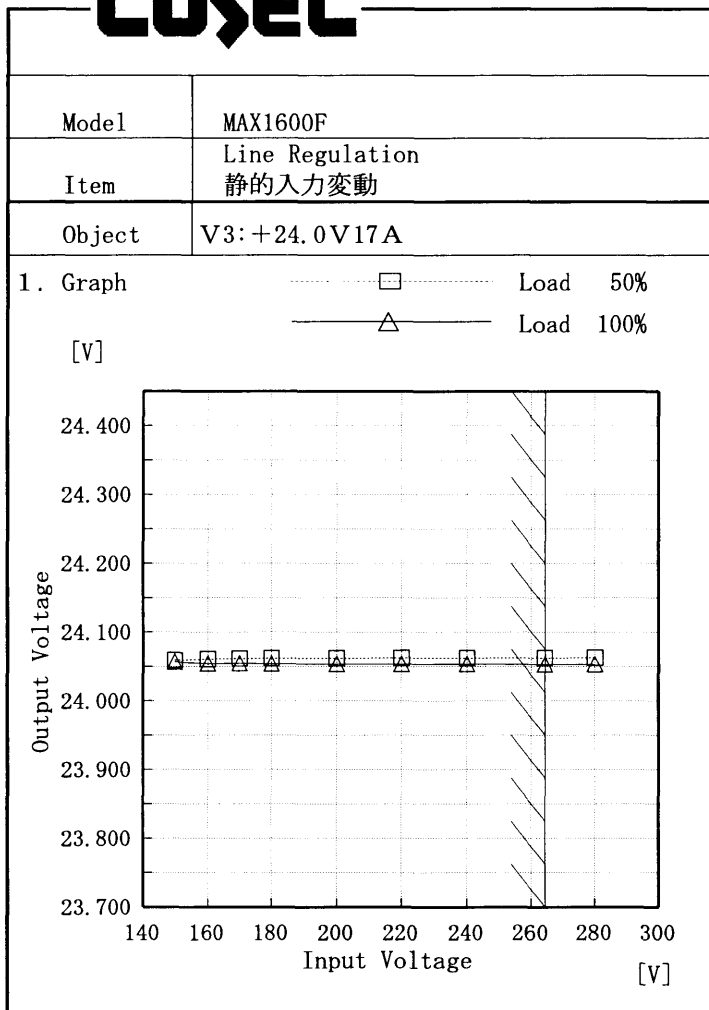
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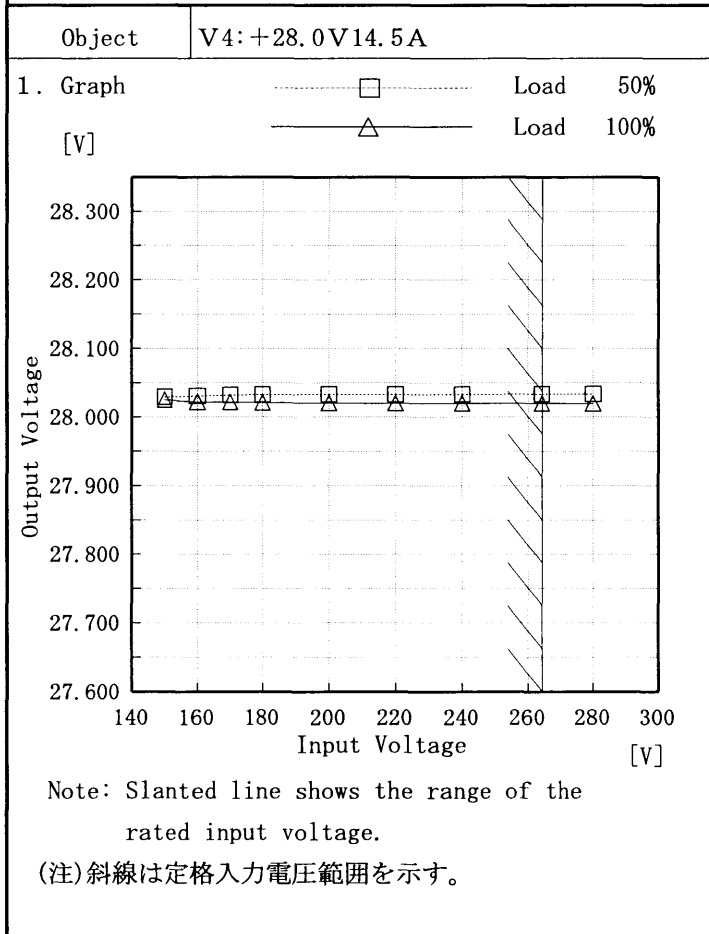
COSEL																																			
Model	MAX1600F	Temperature	25°C																																
Item	Line Regulation 静的入力変動	Testing Circuitry	Figure A																																
Object	V1: +15.0V27A																																		
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<p>Note: Slanted line shows the range of the rated input voltage. (注)斜線は定格入力電圧範囲を示す。</p>																																			



Temperature 25°C
Testing Circuitry Figure A

2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
150	24.059	24.057
160	24.061	24.054
170	24.061	24.055
180	24.062	24.054
200	24.062	24.054
220	24.063	24.054
240	24.062	24.053
264	24.063	24.053
280	24.063	24.053



2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
150	28.030	28.025
160	28.031	28.022
170	28.032	28.022
180	28.033	28.021
200	28.033	28.021
220	28.033	28.020
240	28.033	28.020
264	28.033	28.020
280	28.034	28.020



Model		MAX1600F		Temperature		25°C																																																								
Item		Input Current (by Load Power) 入力電流 (負荷特性)		Testing Circuitry		Figure A																																																								
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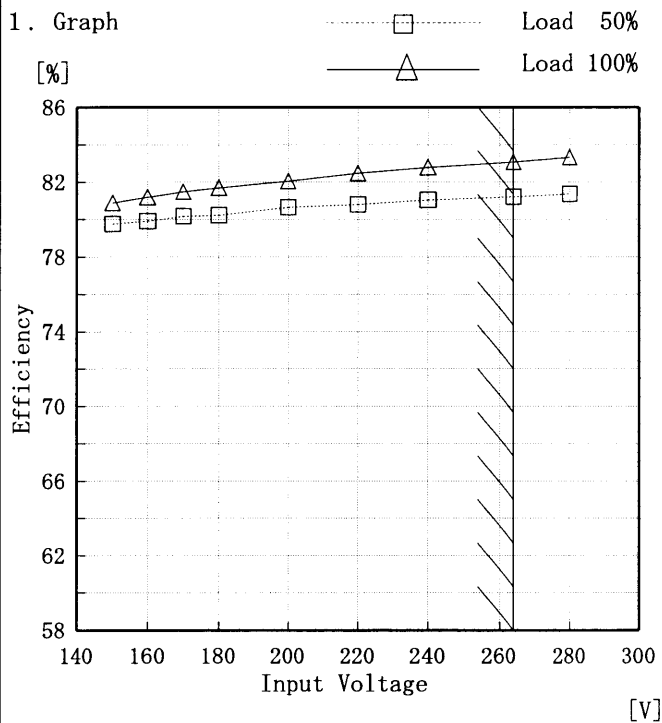


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Model	MAX1600F
Item	Efficiency (by Input Voltage) 効率 (入力電圧特性)
Object	_____

Temperature	25°C
Testing Circuitry	Figure A



2. Values

Input Voltage [V]	Efficiency [%]	
	Load 50%	Load 100%
150	79.8	80.9
160	79.9	81.2
170	80.2	81.5
180	80.2	81.7
200	80.7	82.1
220	80.8	82.5
240	81.0	82.8
264	81.2	83.1
280	81.4	83.3
—	—	—

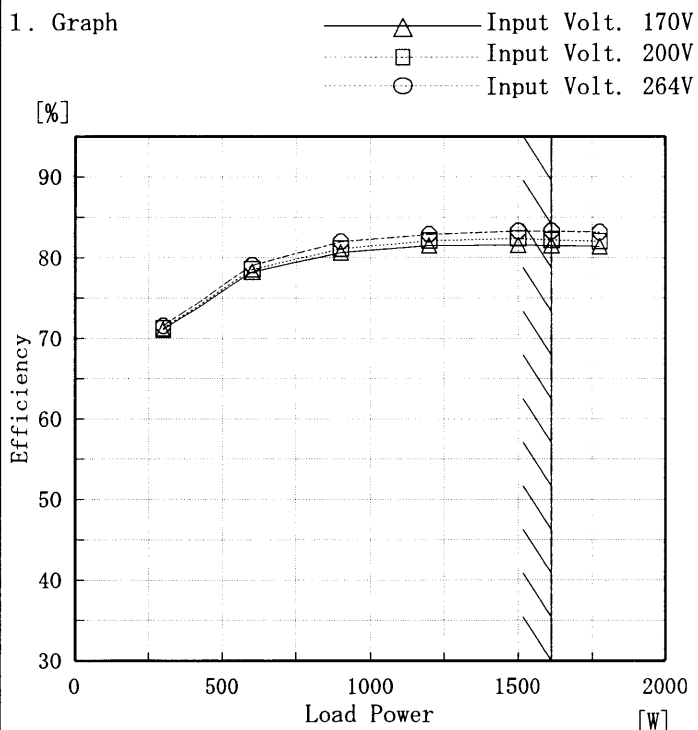
Note: Slanted line shows the range of the rated input voltage.

(注) 斜線は定格入力電圧範囲を示す。



Model	MAX1600F	Temperature	25°C
Item	Efficiency (by Load Power) 効率 (負荷特性)	Testing Circuitry	Figure A
Object	_____		

1. Graph



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

(注) 斜線は定格出力電力範囲を示す。

2. Values

Load Power [W]	Efficiency [%]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
300.00	71.1	71.2	71.6
600.00	78.2	78.5	79.1
900.00	80.7	81.1	82.0
1200.00	81.5	82.1	82.9
1500.00	81.6	82.4	83.3
1615.00	81.5	82.2	83.3
1776.50	81.4	82.0	83.2
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



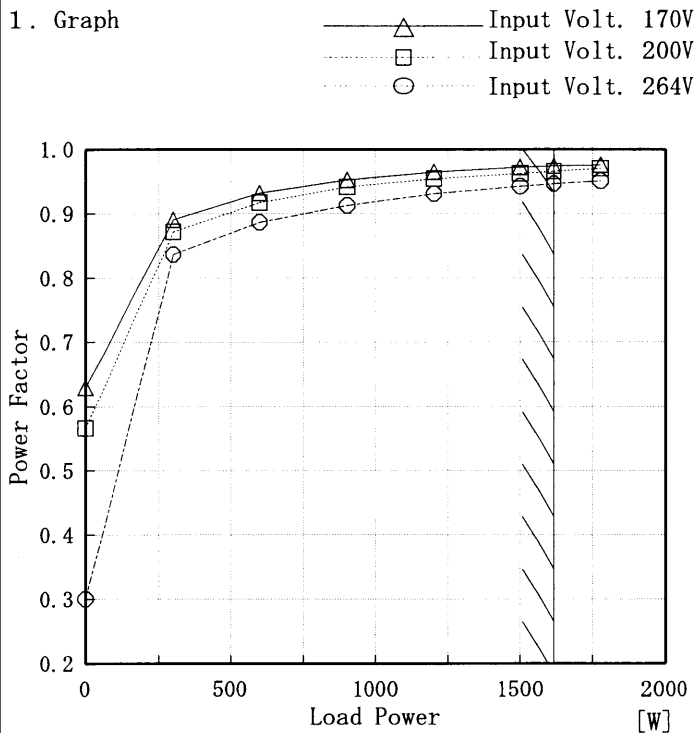
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Item		Power Factor (by Input Voltage) 力率 (入力電圧特性)		Testing Circuitry	Figure A																																			
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Model	MAX1600F
Item	Power Factor (by Load Power) 力率 (負荷特性)
Object	_____

Temperature 25°C
Testing Circuitry Figure A

1. Graph



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

(注)斜線は定格出力電力範囲を示す。

2. Values

Load Power [W]	Power Factor		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.00	0.63	0.57	0.30
300.00	0.89	0.87	0.84
600.00	0.93	0.92	0.89
900.00	0.95	0.94	0.91
1200.00	0.96	0.95	0.93
1500.00	0.97	0.96	0.94
1615.00	0.97	0.97	0.95
1776.50	0.98	0.97	0.95
—	—	—	—
—	—	—	—
—	—	—	—
—	—	—	—



Model		MAX1600F	Temperature		25°C																																
Item		Hold-Up Time 出力保持時間	Testing Circuitry		Figure A																																
Object		V1: +15.0V27A																																			
<p>1. Graph</p> <p>-----□----- Load 50%</p> <p>-----△----- Load 100%</p> <p>Hold-Up Time [mS]</p> <p>Input Voltage [V]</p>			<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Input Voltage [V]</th> <th colspan="2">Hold-Up Time [mS]</th> </tr> <tr> <th>Load 50%</th> <th>Load 100%</th> </tr> </thead> <tbody> <tr><td>150</td><td>74</td><td>36</td></tr> <tr><td>160</td><td>74</td><td>36</td></tr> <tr><td>170</td><td>75</td><td>37</td></tr> <tr><td>180</td><td>75</td><td>37</td></tr> <tr><td>200</td><td>76</td><td>38</td></tr> <tr><td>220</td><td>77</td><td>38</td></tr> <tr><td>240</td><td>77</td><td>39</td></tr> <tr><td>264</td><td>78</td><td>39</td></tr> <tr><td>280</td><td>79</td><td>40</td></tr> </tbody> </table>			Input Voltage [V]	Hold-Up Time [mS]		Load 50%	Load 100%	150	74	36	160	74	36	170	75	37	180	75	37	200	76	38	220	77	38	240	77	39	264	78	39	280	79	40
Input Voltage [V]	Hold-Up Time [mS]																																				
	Load 50%	Load 100%																																			
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<p>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</p> <p>Note: Slanted line shows the range of the rated input voltage.</p> <p>出力保持時間とは、入力電圧断から出力電圧が、定電圧精度の規格範囲を保持しているところまでの時間。</p> <p>(注)斜線は定格入力電圧範囲を示す。</p>																																					



<p>Model MAX1600F</p> <p>Item Hold-Up Time 出力保持時間</p> <p>Object V2: +18.0V22A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																															
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20.0	15.096	15.096	15.095																																															
24.0	15.094	15.094	15.094																																															
27.0	15.093	15.093	15.092																																															
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<p>Model MAX1600F</p> <p>Item Ripple Voltage (by Load Current) リップル電圧(負荷特性)</p> <p>Object V1: +15.0V27A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																							
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Model		MAX1600F	Temperature		25°C																																						
Item		Ripple Voltage (by Load Current) リップル電圧(負荷特性)	Testing Circuitry		Figure A																																						
Object		V2: +18.0V22A																																									
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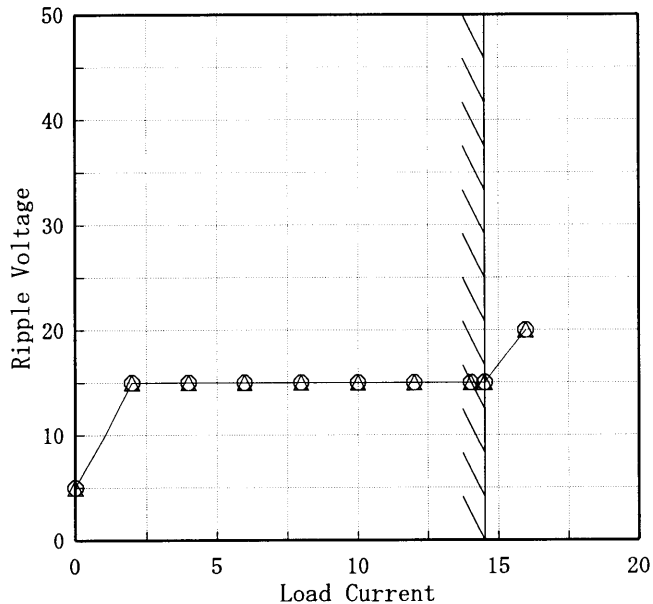


<p>Model MAX1600F</p> <p>Item Ripple Voltage (by Load Current) リップル電圧(負荷特性)</p> <p>Object V3: +24.0V17A</p>		<p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
<p>1. Graph</p> <p>△ Input Volt. 170V</p> <p>○ Input Volt. 264V</p> <p>Ripple Voltage [mV]</p> <p>Load Current [A]</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th rowspan="2">Load Current [A]</th> <th colspan="2">Ripple Output Voltage [mV]</th> </tr> <tr> <th>Input Volt. 170 [V]</th> <th>Input Volt. 264 [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>5</td><td>5</td></tr> <tr><td>3.0</td><td>10</td><td>10</td></tr> <tr><td>6.0</td><td>10</td><td>10</td></tr> <tr><td>9.0</td><td>10</td><td>10</td></tr> <tr><td>12.0</td><td>10</td><td>10</td></tr> <tr><td>15.0</td><td>10</td><td>10</td></tr> <tr><td>17.0</td><td>10</td><td>10</td></tr> <tr><td>18.7</td><td>10</td><td>10</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> <tr><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Load Current [A]	Ripple Output Voltage [mV]		Input Volt. 170 [V]	Input Volt. 264 [V]	0.0	5	5	3.0	10	10	6.0	10	10	9.0	10	10	12.0	10	10	15.0	10	10	17.0	10	10	18.7	10	10	—	—	—	—	—	—	—	—	—
Load Current [A]	Ripple Output Voltage [mV]																																							
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Model	MAX1600F	Temperature	25°C
Item	Ripple Voltage (by Load Current) リップル電圧(負荷特性)	Testing Circuitry	Figure A
Object	V4: +28.0V 14.5A		

1. Graph
 [mV]
 —△— Input Volt. 170V
 - - - ○ - - - Input Volt. 264V



[A]

Ripple Voltage is shown as p-p in the figure below.

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

リップル電圧は、下図 p-p 値で示される。

(注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
 入力商用周期

T2: Due to Switching
 スイッチング周期

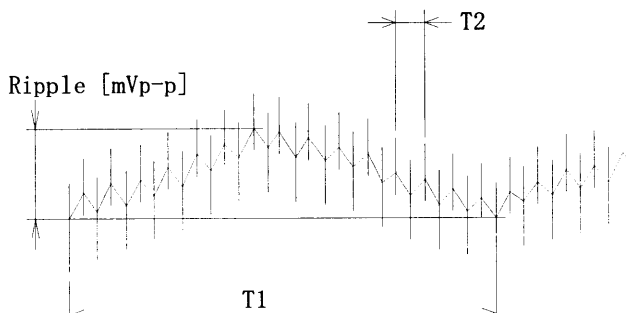


Fig. Complex Ripple Wave Form

図 リップル波形詳細図

2. Values

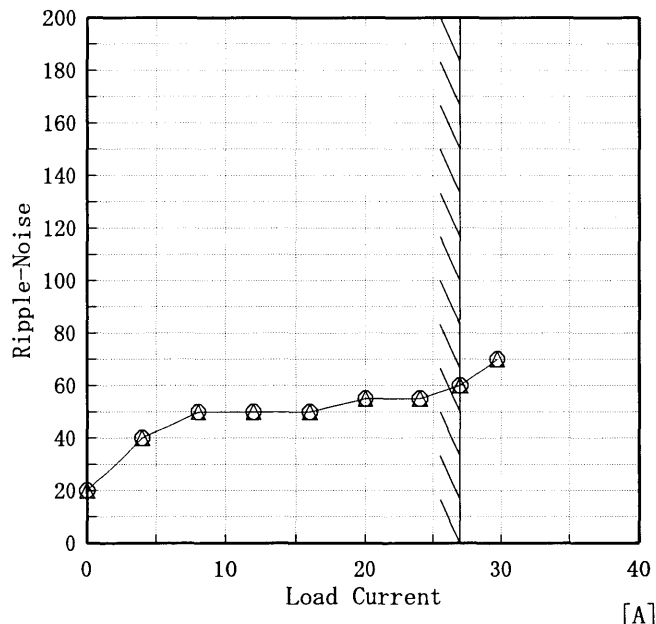
Load Current [A]	Ripple Output Voltage [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	5	5
2.0	15	15
4.0	15	15
6.0	15	15
8.0	15	15
10.0	15	15
12.0	15	15
14.0	15	15
14.5	15	15
16.0	20	20
—	—	—



Model	MAX1600F	Temperature	25°C
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A

Object V1: +15.0V27A

1. Graph
 [mV]
 —△— Input Volt. 170V
 -○- Input Volt. 264V



Ripple-Noise is shown as p-p in the figure below.
 Note: Slanted line shows the range of the rated load current.

リップルノイズは、下図 p-p 値で示される。
 (注)斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
 入力商用周期
 T2: Due to Switching
 スイッチング周期

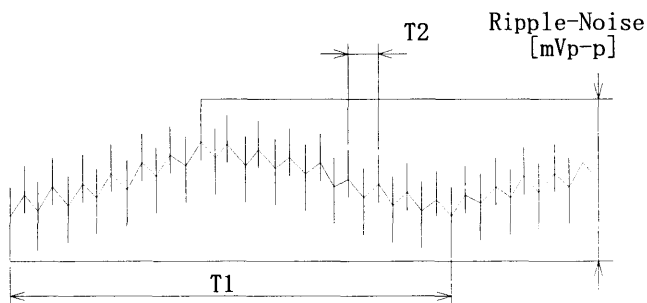


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図

2. Values

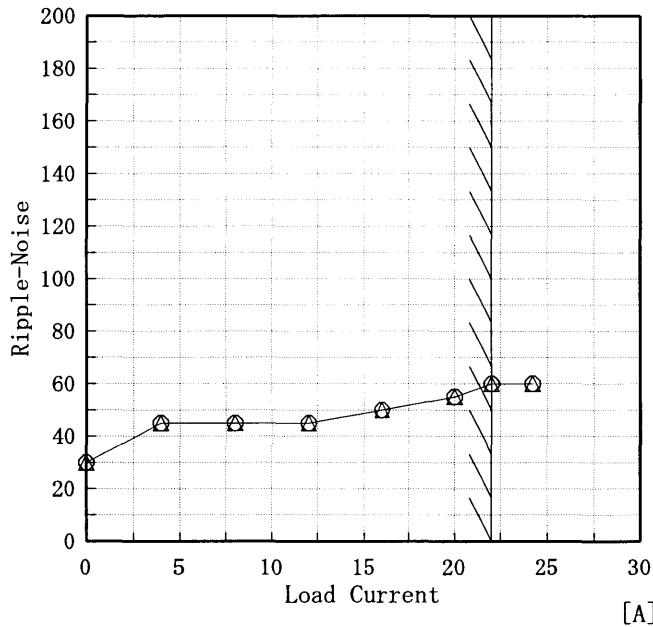
Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	20	20
4.0	40	40
8.0	50	50
12.0	50	50
16.0	50	50
20.0	55	55
24.0	55	55
27.0	60	60
29.7	70	70
—	—	—
—	—	—



Model	MAX1600F	Temperature	25°C
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A

Object V2: +18.0V22A

1. Graph
 [mV]
 —△— Input Volt. 170V
 -○- Input Volt. 264V



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	30	30
4.0	45	45
8.0	45	45
12.0	45	45
16.0	50	50
20.0	55	55
22.0	60	60
24.2	60	60
—	—	—
—	—	—
—	—	—

Ripple-Noise is shown as p-p in the figure below.
 Note: Slanted line shows the range of the rated load current.

リップルノイズは、下図 p-p 値で示される。
 (注)斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
 入力商用周期
 T2: Due to Switching
 スイッチング周期

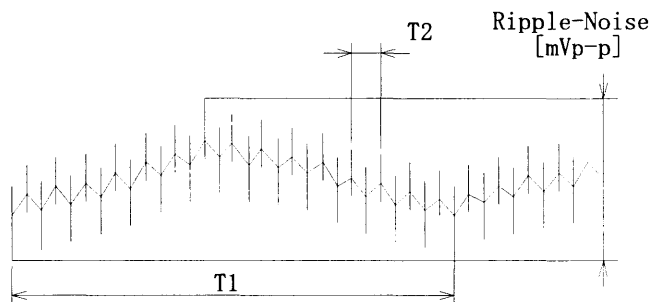


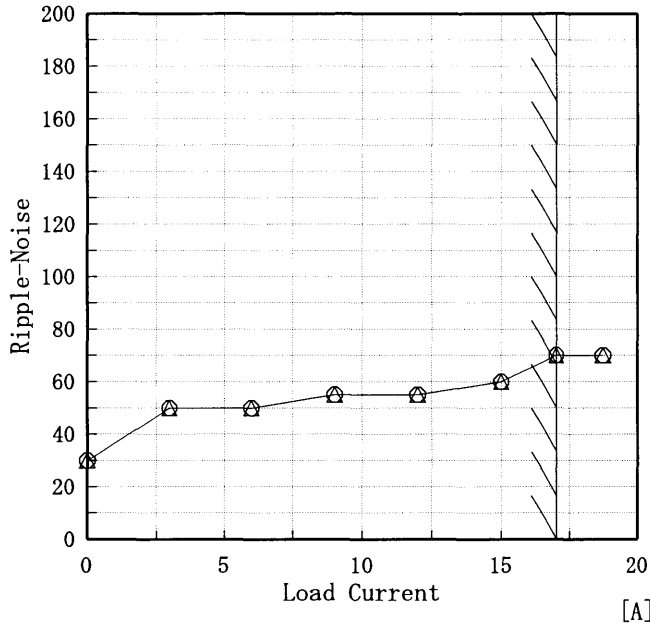
Fig. Complex Ripple Wave Form
 図 リップル波形詳細図



Model	MAX1600F	Temperature	25°C
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A

Object V3: +24.0V 17A

1. Graph
 [mV]
 —△— Input Volt. 170V
 -○- Input Volt. 264V



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	30	30
3.0	50	50
6.0	50	50
9.0	55	55
12.0	55	55
15.0	60	60
17.0	70	70
18.7	70	70
—	—	—
—	—	—
—	—	—

Ripple-Noise is shown as p-p in the figure below.
 Note: Slanted line shows the range of the rated load current.

リップルノイズは、下図 p-p 値で示される。
 (注)斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
 入力商用周期
 T2: Due to Switching
 スイッチング周期

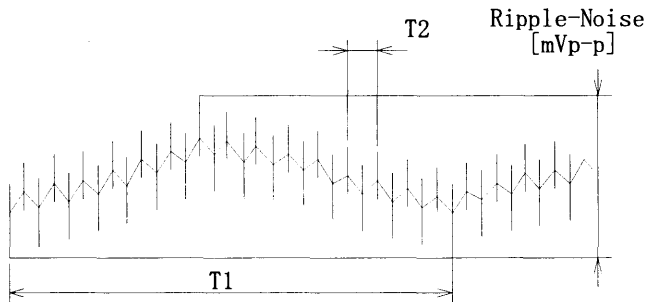


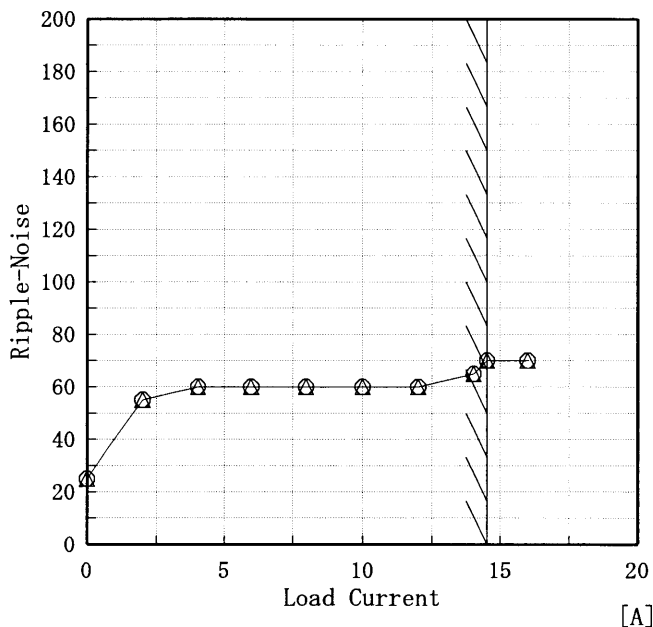
Fig. Complex Ripple Wave Form
 図 リップル波形詳細図



Model	MAX1600F	Temperature	25°C
Item	Ripple-Noise リップルノイズ	Testing Circuitry	Figure A

Object V4: +28.0V 14.5A

1. Graph
 [mV] —△— Input Volt. 170V
 ⊖⋯⋯ Input Volt. 264V



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170 [V]	Input Volt. 264 [V]
0.0	25	25
2.0	55	55
4.0	60	60
6.0	60	60
8.0	60	60
10.0	60	60
12.0	60	60
14.0	65	65
14.5	70	70
16.0	70	70
—	—	—

Ripple-Noise is shown as p-p in the figure below.
 Note: Slanted line shows the range of the rated load current.

リップルノイズは、下図 p-p 値で示される。
 (注) 斜線は定格負荷電流範囲を示す。

T1: Due to AC Input Line
 入力商用周期
 T2: Due to Switching
 スイッチング周期

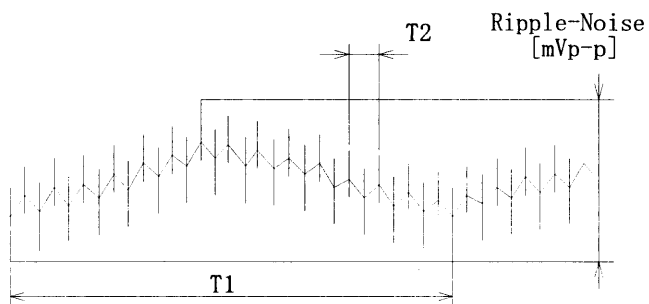


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図



COSEL																																																										
Model	MAX1600F	Temperature	25°C																																																							
Item	Overcurrent Protection 過電流保護	Testing Circuitry	Figure A																																																							
Object	V1: +15.0V27A																																																									
1. Graph	<p style="margin-left: 20px;"> Input Volt. 170 V Input Volt. 200 V Input Volt. 264 V </p>	2. Values																																																								
	<p>Note: Slanted line shows the range of the rated load current.</p> <p>Intermittent operation occurs when the output voltage is from 13.5V to 0V.</p>	<table border="1"> <thead> <tr> <th rowspan="2">Output Voltage [V]</th> <th colspan="3">Load Current [A]</th> </tr> <tr> <th>Input Volt. 170[V]</th> <th>Input Volt. 200[V]</th> <th>Input Volt. 264[V]</th> </tr> </thead> <tbody> <tr><td>15.00</td><td>31.69</td><td>32.14</td><td>32.27</td></tr> <tr><td>14.25</td><td>31.72</td><td>32.16</td><td>32.29</td></tr> <tr><td>13.50</td><td>31.72</td><td>32.15</td><td>32.28</td></tr> <tr><td>12.00</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>10.50</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>9.00</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>7.50</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>6.00</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>4.50</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>3.00</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>1.50</td><td>—</td><td>—</td><td>—</td></tr> <tr><td>0.00</td><td>—</td><td>—</td><td>—</td></tr> </tbody> </table>	Output Voltage [V]	Load Current [A]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	15.00	31.69	32.14	32.27	14.25	31.72	32.16	32.29	13.50	31.72	32.15	32.28	12.00	—	—	—	10.50	—	—	—	9.00	—	—	—	7.50	—	—	—	6.00	—	—	—	4.50	—	—	—	3.00	—	—	—	1.50	—	—	—	0.00	—	—	—	
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Output Voltage [V]	Load Current [A]																																																									
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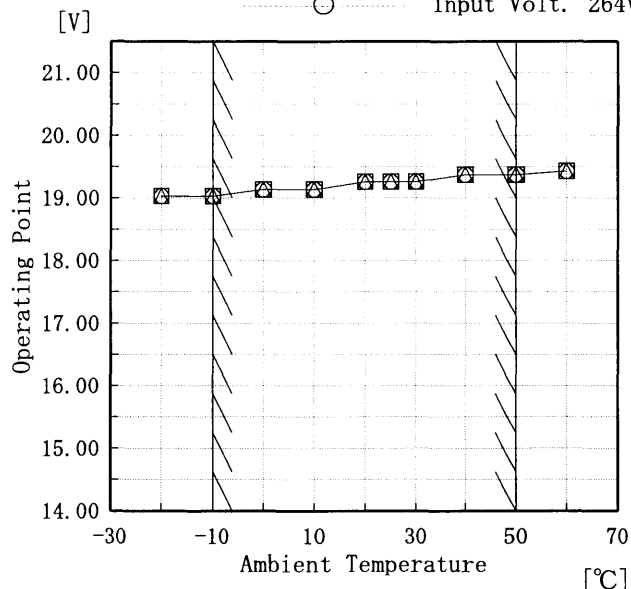


Model	MAX1600F
Item	Overvoltage Protection 過電圧保護
Object	V1: +15.0V27A

Testing Circuitry Figure A

1. Graph

△ Input Volt. 170V
 □ Input Volt. 200V
 ○ Input Volt. 264V



Load 0%

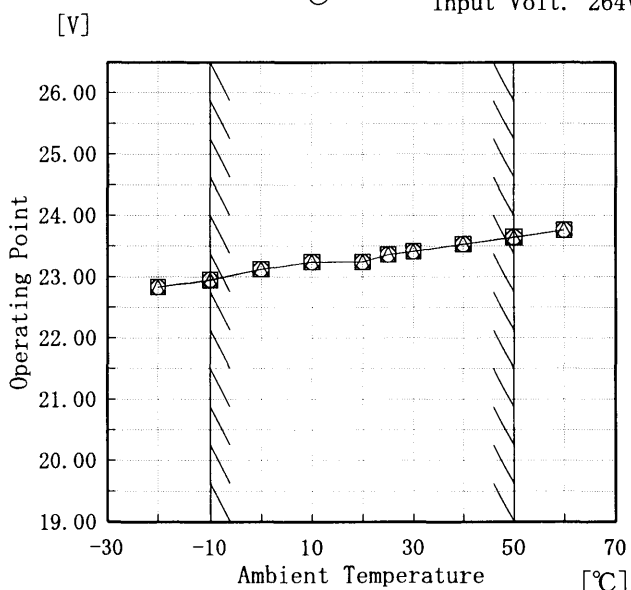
2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170 [V]	Input Volt. 200 [V]	Input Volt. 264 [V]
-20	19.03	19.03	19.03
-10	19.03	19.03	19.03
0	19.14	19.14	19.14
10	19.14	19.14	19.14
20	19.26	19.26	19.26
25	19.26	19.26	19.26
30	19.26	19.26	19.26
40	19.37	19.37	19.37
50	19.37	19.37	19.37
60	19.43	19.43	19.43
—	—	—	—

Object	V2: +18.0V22A
--------	---------------

1. Graph

△ Input Volt. 170V
 □ Input Volt. 200V
 ○ Input Volt. 264V



Load 0%

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170 [V]	Input Volt. 200 [V]	Input Volt. 264 [V]
-20	22.83	22.83	22.83
-10	22.94	22.95	22.95
0	23.12	23.12	23.12
10	23.24	23.24	23.24
20	23.24	23.24	23.24
25	23.36	23.36	23.36
30	23.41	23.41	23.41
40	23.53	23.53	23.53
50	23.64	23.65	23.64
60	23.76	23.76	23.76
—	—	—	—

Note: Slanted line shows the range of the rated ambient temperature.

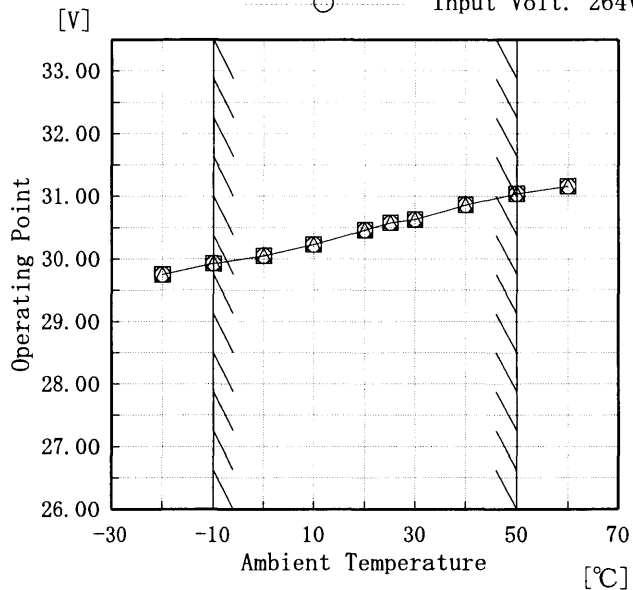
(注)斜線は定格周囲温度範囲を示す。



Model	MAX1600F
Item	Overvoltage Protection 過電圧保護
Object	V3: +24.0V17A

Testing Circuitry Figure A

1. Graph
- △— Input Volt. 170V
 - Input Volt. 200V
 - Input Volt. 264V



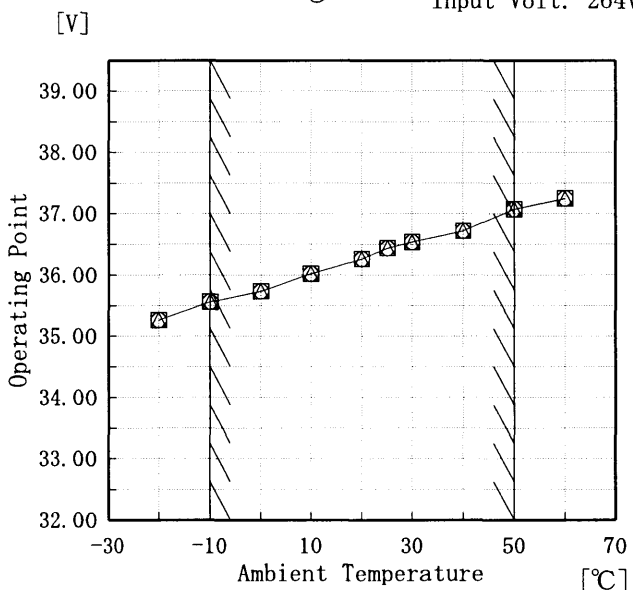
Load 0%

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	29.75	29.75	29.75
-10	29.93	29.93	29.93
0	30.05	30.05	30.05
10	30.23	30.23	30.23
20	30.46	30.46	30.46
25	30.58	30.58	30.58
30	30.63	30.63	30.63
40	30.86	30.86	30.86
50	31.04	31.04	31.04
60	31.16	31.16	31.16
—	—	—	—

Object	V4: +28.0V14.5A
--------	-----------------

1. Graph
- △— Input Volt. 170V
 - Input Volt. 200V
 - Input Volt. 264V



Load 0%

2. Values

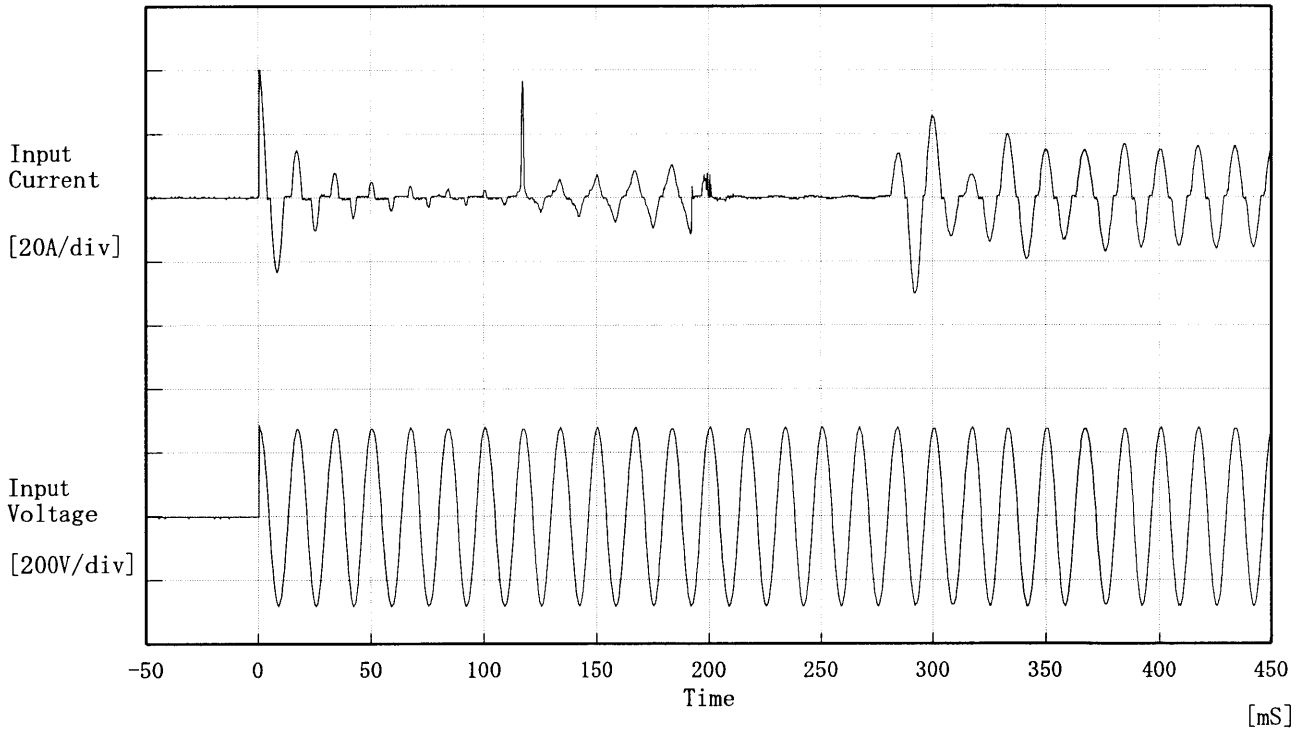
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	35.26	35.26	35.26
-10	35.56	35.56	35.56
0	35.73	35.73	35.73
10	36.02	36.02	36.02
20	36.26	36.26	36.26
25	36.44	36.44	36.44
30	36.54	36.54	36.54
40	36.72	36.72	36.72
50	37.07	37.07	37.07
60	37.24	37.25	37.25
—	—	—	—

Note: Slanted line shows the range of the rated ambient temperature.

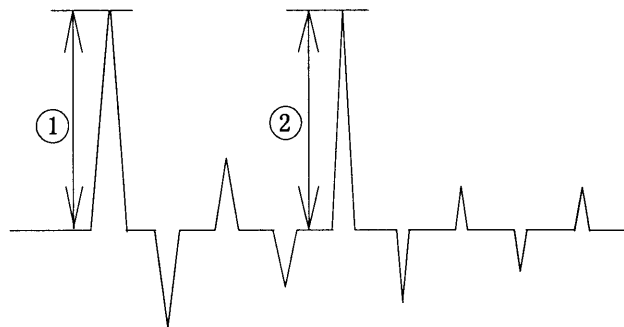
(注)斜線は定格周囲温度範囲を示す。



Model	MAX1600F	Temperature	25°C
Item	Inrush Current 突入電流	Testing Circuitry	Figure A
Object	_____		



Input Voltage 200 V
 Frequency 60 Hz
 Load 100 %
 Inrush Current
 ① 40.20 [A]
 ② 36.60 [A]

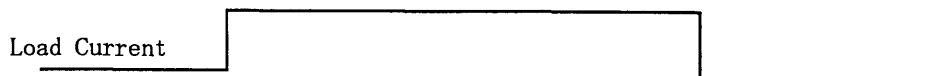




Model	MAX1600F	Temperature	25°C
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	V1: +15.0V27A		

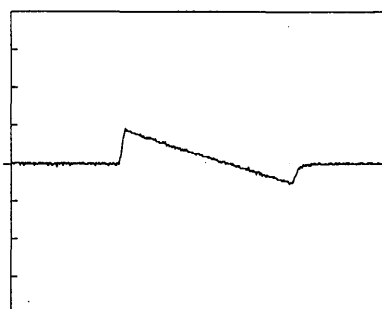
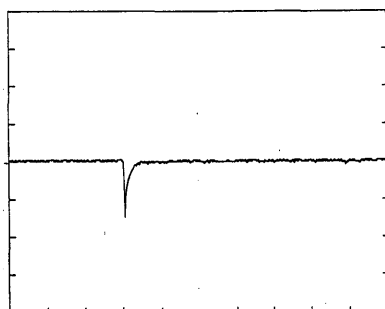
Input Volt. 200 V

Cycle 1000 mS



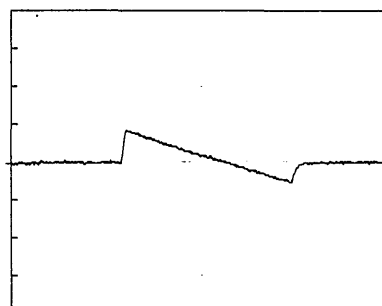
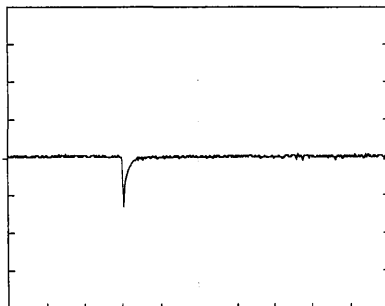
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



500 mV/div

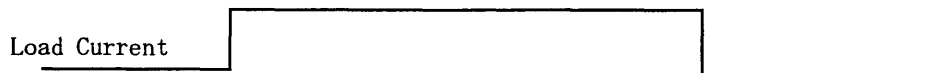
5 mS/div



Model		MAX1600F	Temperature		25°C
Item		Dynamic Load Responce 動的負荷変動	Testing Circuitry		Figure A
Object		V2: +18.0V22A			

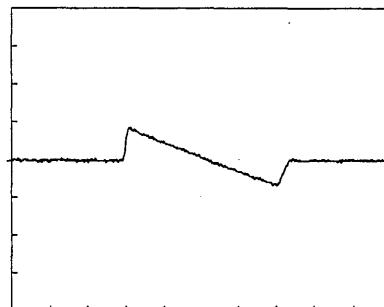
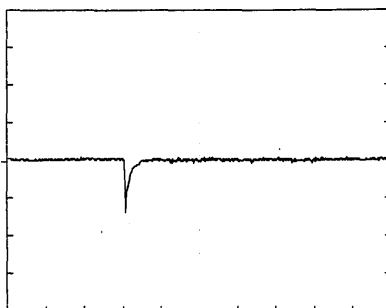
Input Volt. 200 V

Cycle 1000 mS



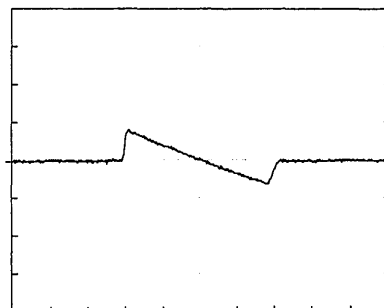
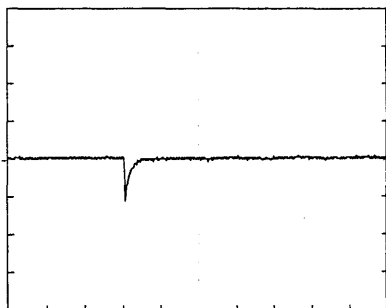
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



500 mV/div

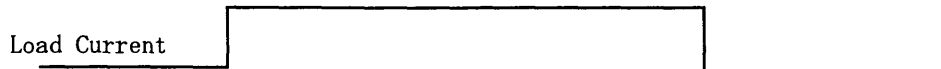
5 mS/div

COSEL

Model	MAX1600F	Temperature	25°C
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	V3: +24.0V17A		

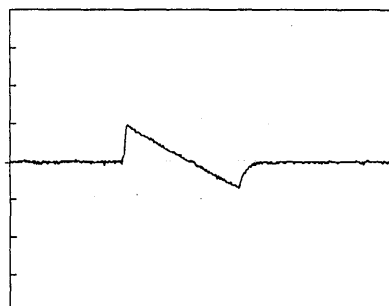
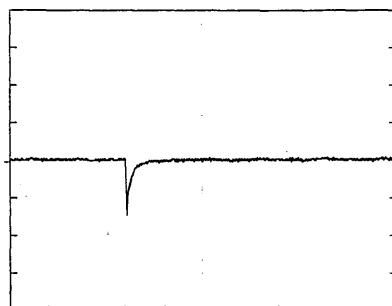
Input Volt. 200 V

Cycle 1000 mS



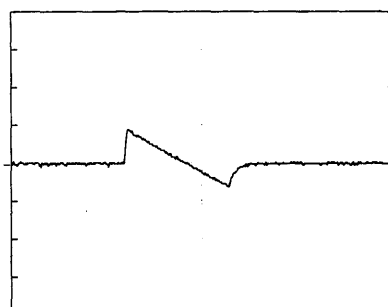
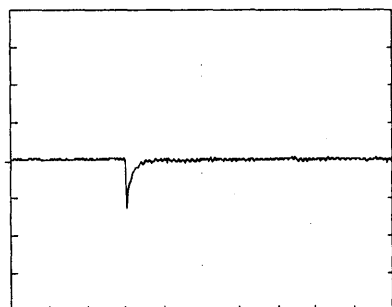
Load 0% ↔

Load 100 %



Load 0% ↔

Load 50 %



500 mV/div

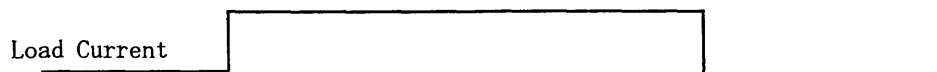
5 mS/div

COSEL

Model	MAX1600F	Temperature	25°C
Item	Dynamic Load Responce 動的負荷変動	Testing Circuitry	Figure A
Object	V4: +28.0V 14.5A		

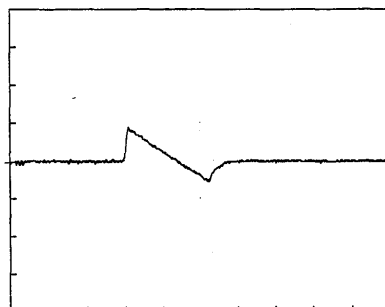
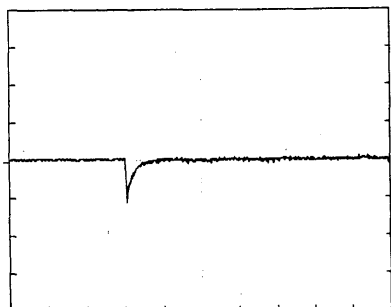
Input Volt. 200 V

Cycle 1000 mS



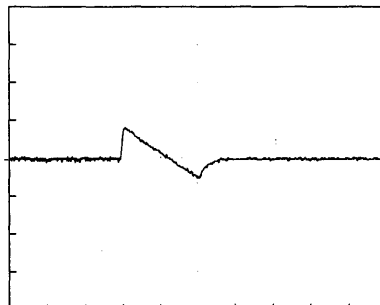
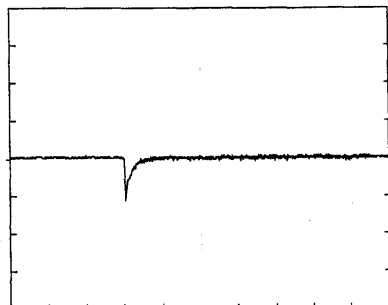
Load 0% ←→

Load 100 %



Load 0% ←→

Load 50 %



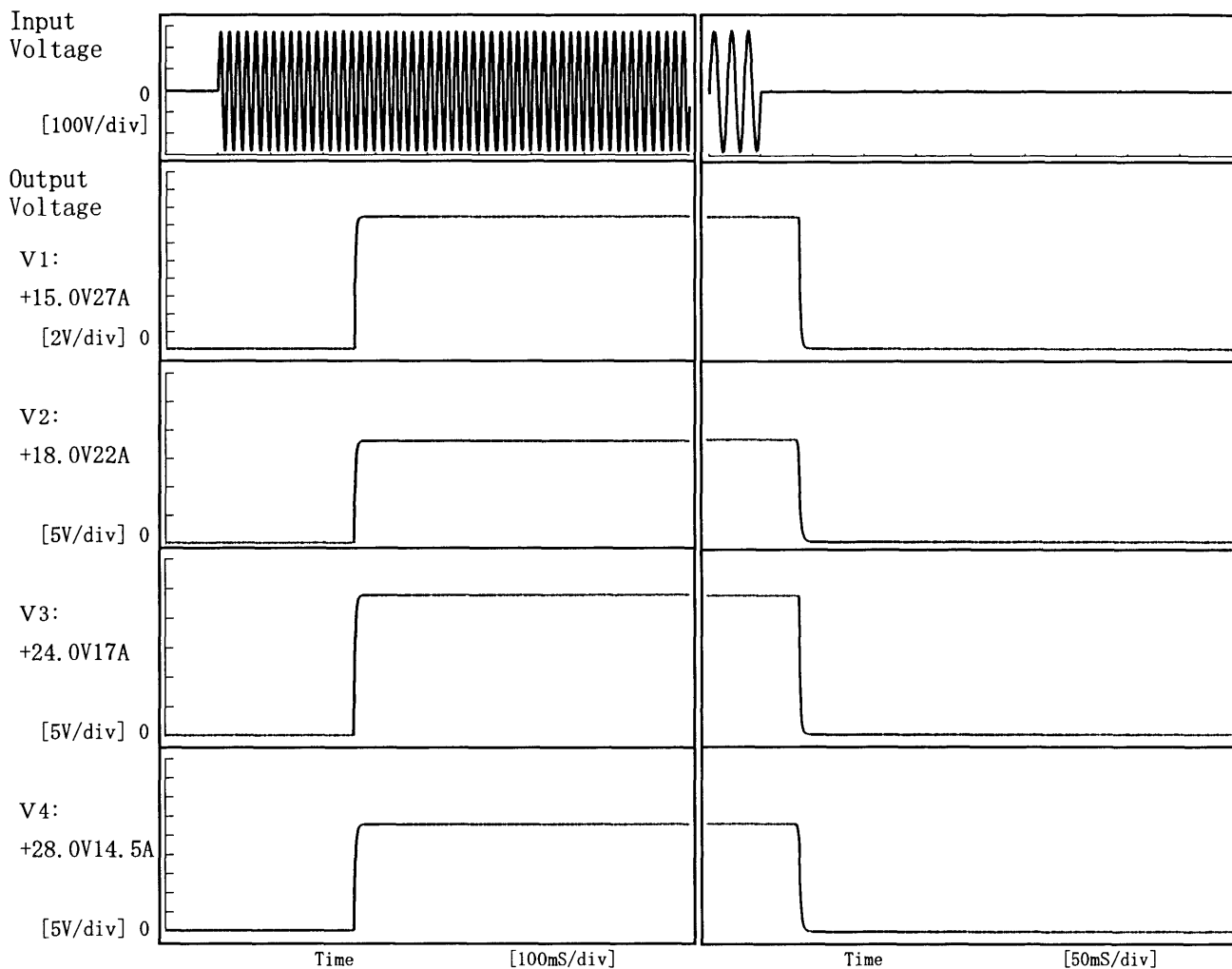
500 mV/div

5 mS/div



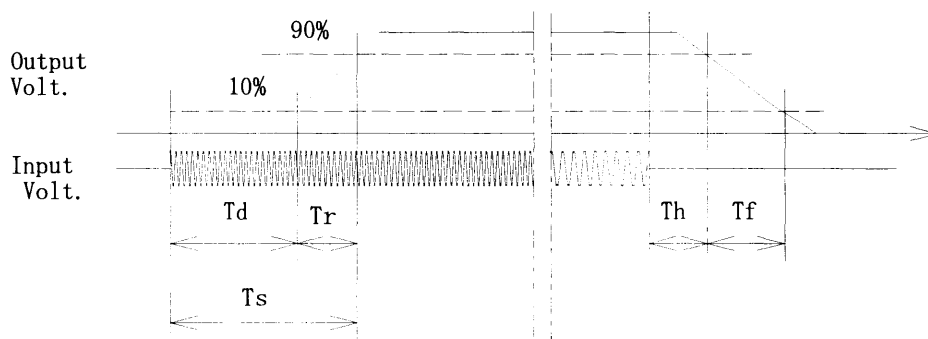
Model		MAX1600F	Temperature	25°C
Item		Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object		_____	Load Power	100 %
			Input Volt.	200 V

1. Graph



2. Values

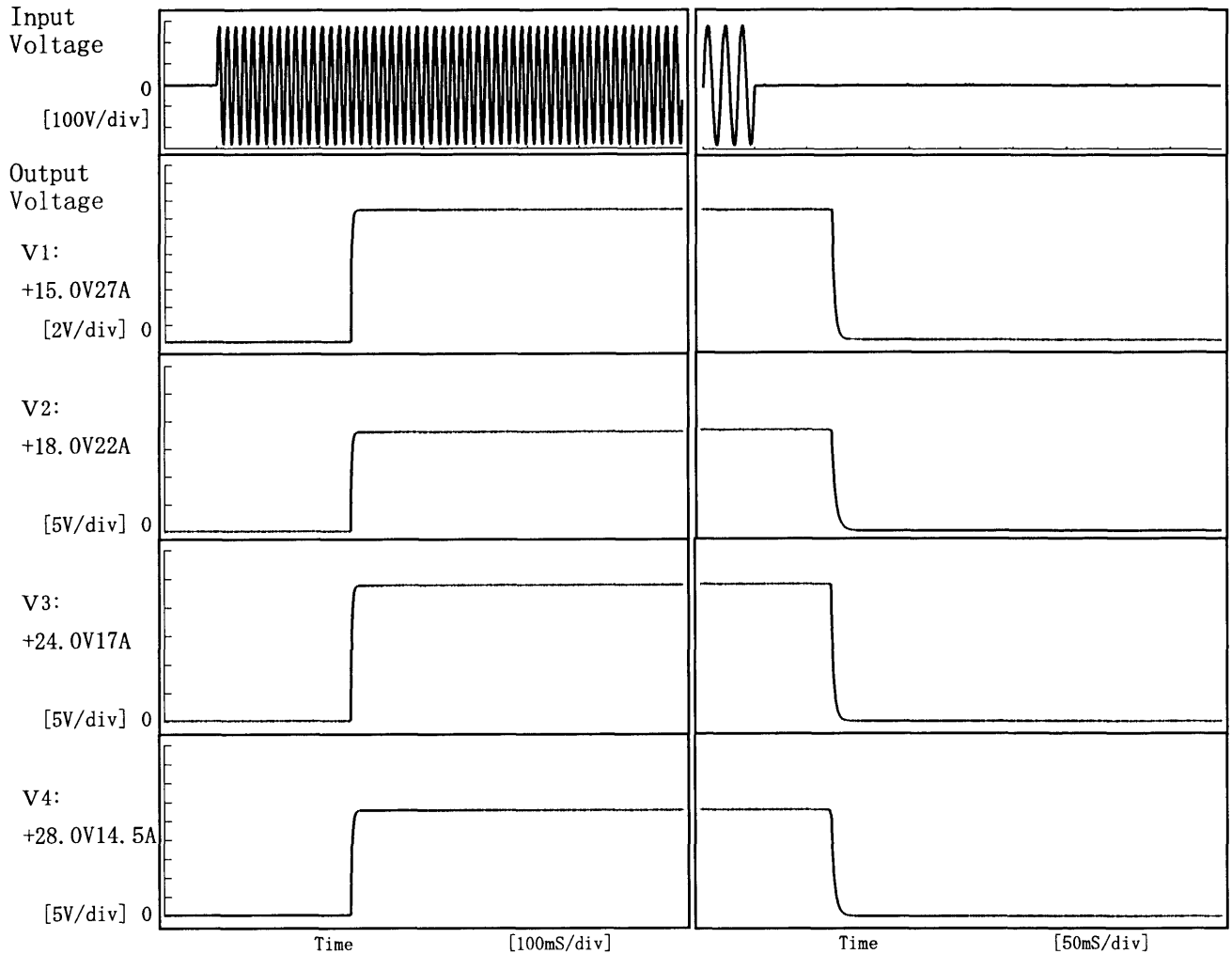
Output	Time	T d	T r	T s	T h	T f
V1		259.5	4.5	264.0	38.0	2.8
V2		259.5	5.5	265.0	37.5	4.5
V3		259.5	6.0	265.5	37.8	3.0
V4		259.5	6.5	266.0	37.0	4.5





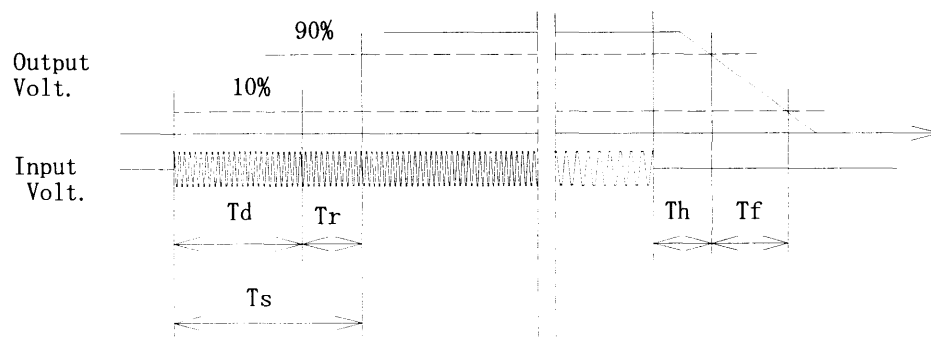
Model	MAX1600F	Temperature	25°C
Item	Rise and Fall Time 立上り、立下り時間	Testing Circuitry	Figure A
Object	_____	Load Power	50 %
		Input Volt.	200 V

1. Graph



2. Values

Output	Time	T _d	T _r	T _s	T _h	T _f
V1		259.5	4.5	264.0	75.8	5.8
V2		259.5	5.5	265.0	75.8	8.5
V3		259.5	6.0	265.5	75.8	5.8
V4		259.5	6.5	266.0	75.5	7.5





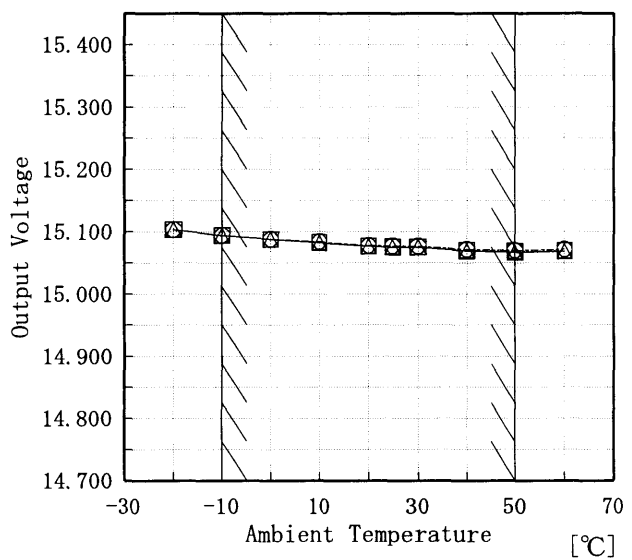
Model	MAX1600F
Item	Ambient Temperature Drift 周囲温度変動
Object	V1: +15.0V27A

Testing Circuitry Figure A

1. Graph

[V]

—△— Input Volt.170V
 - - -□- - - Input Volt.200V
 - - -○- - - Input Volt.264V



Load 100%

2. Values

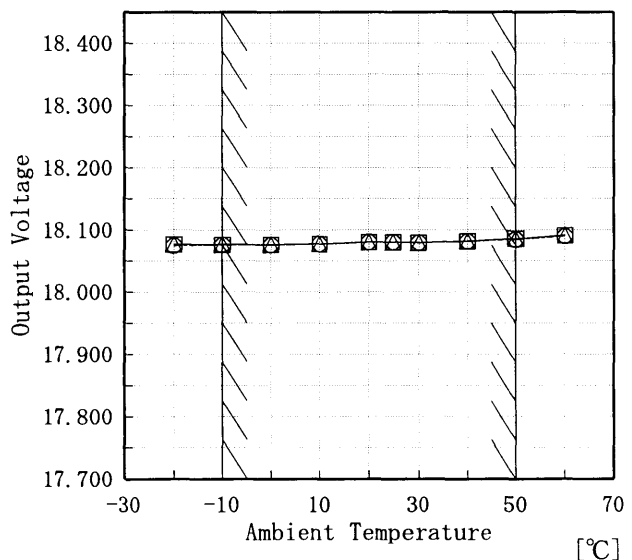
Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	15.103	15.103	15.103
-10	15.094	15.094	15.094
0	15.088	15.088	15.088
10	15.082	15.083	15.084
20	15.076	15.077	15.078
25	15.075	15.076	15.077
30	15.075	15.076	15.077
40	15.069	15.070	15.072
50	15.067	15.069	15.070
60	15.068	15.070	15.072
-	-	-	-

Object	V2: +18.0V22A
--------	---------------

1. Graph

[V]

—△— Input Volt.170V
 - - -□- - - Input Volt.200V
 - - -○- - - Input Volt.264V



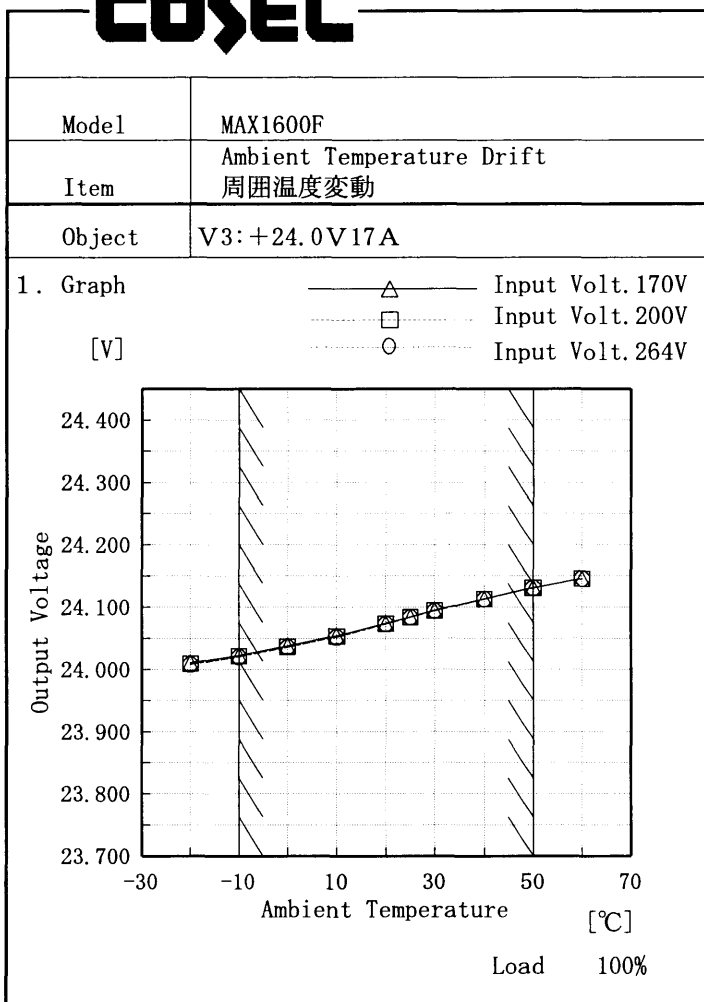
Load 100%

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	18.077	18.076	18.075
-10	18.077	18.076	18.076
0	18.076	18.076	18.076
10	18.077	18.077	18.077
20	18.080	18.080	18.080
25	18.080	18.080	18.080
30	18.079	18.079	18.079
40	18.082	18.081	18.081
50	18.085	18.085	18.084
60	18.091	18.090	18.090
-	-	-	-

Note: Slanted line shows the range of the rated ambient temperature.

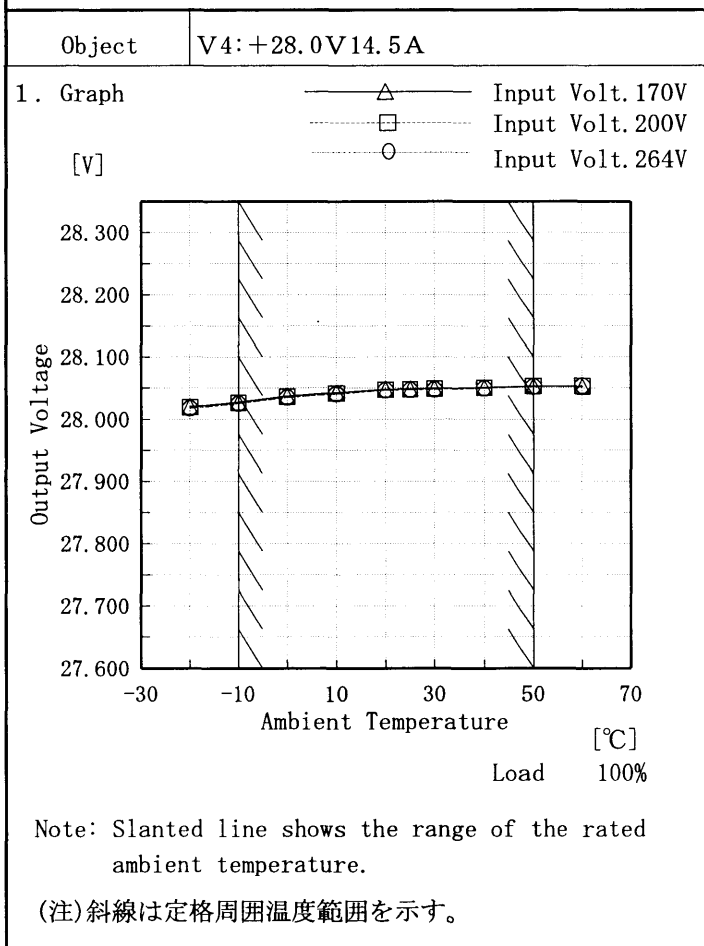
(注) 斜線は定格周囲温度範囲を示す。



Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	24.011	24.009	24.008
-10	24.023	24.021	24.020
0	24.037	24.036	24.035
10	24.054	24.053	24.052
20	24.074	24.073	24.073
25	24.084	24.084	24.083
30	24.095	24.094	24.094
40	24.113	24.113	24.113
50	24.131	24.130	24.130
60	24.146	24.146	24.146
-	-	-	-



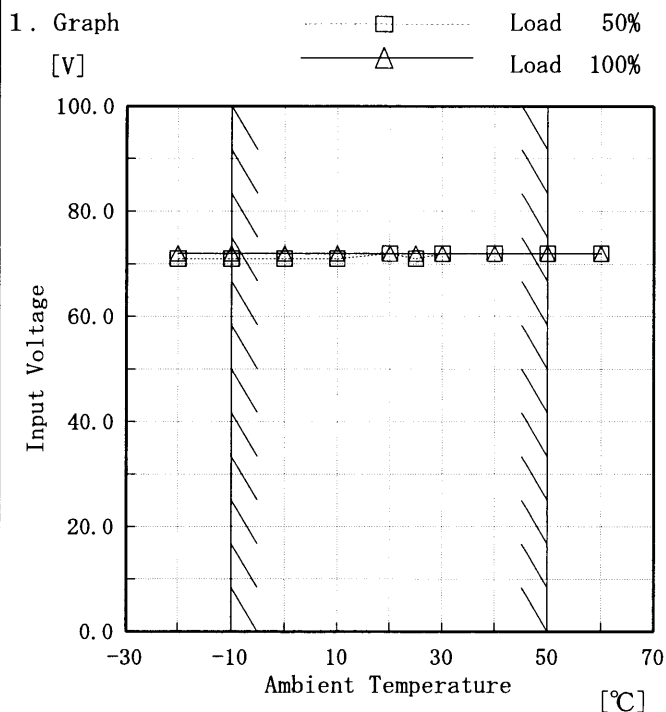
2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	28.020	28.019	28.018
-10	28.027	28.026	28.025
0	28.037	28.036	28.035
10	28.043	28.042	28.041
20	28.048	28.047	28.047
25	28.048	28.048	28.047
30	28.049	28.048	28.048
40	28.051	28.050	28.050
50	28.053	28.053	28.053
60	28.052	28.053	28.054
-	-	-	-



Model	MAX1600F
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V1: +15.0V27A

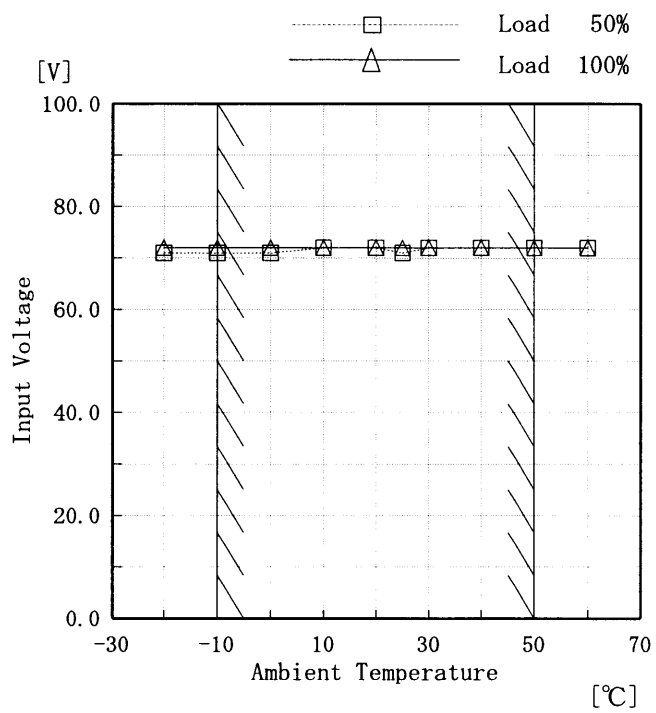
Testing Circuitry Figure A



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	71	72
-10	71	72
0	71	72
10	71	72
20	72	72
25	71	72
30	72	72
40	72	72
50	72	72
60	72	72
—	—	—

Object	V2: +18.0V22A
--------	---------------



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	71	72
-10	71	72
0	71	72
10	72	72
20	72	72
25	71	72
30	72	72
40	72	72
50	72	72
60	72	72
—	—	—

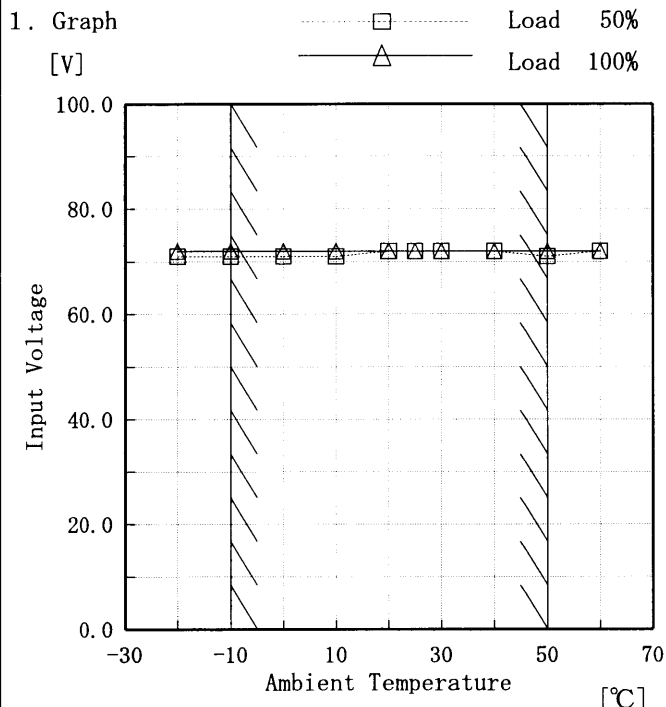
Note: Slanted line shows the range of the rated ambient temperature.

(注)斜線は定格周囲温度範囲を示す。



Model	MAX1600F
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧
Object	V3: +24.0V17A

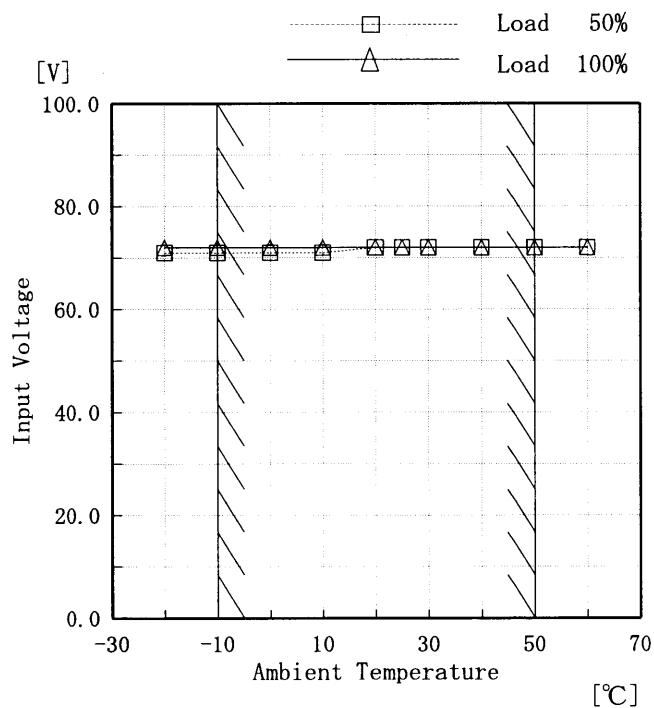
Testing Circuitry Figure A



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	71	72
-10	71	72
0	71	72
10	71	72
20	72	72
25	72	72
30	72	72
40	72	72
50	71	72
60	72	72
—	—	—

Object	V4: +28.0V14.5A
--------	-----------------



2. Values

Ambient Temperature [°C]	Input Voltage [V]	
	Load 50%	Load 100%
-20	71	72
-10	71	72
0	71	72
10	71	72
20	72	72
25	72	72
30	72	72
40	72	72
50	72	72
60	72	72
—	—	—

Note: Slanted line shows the range of the rated ambient temperature.

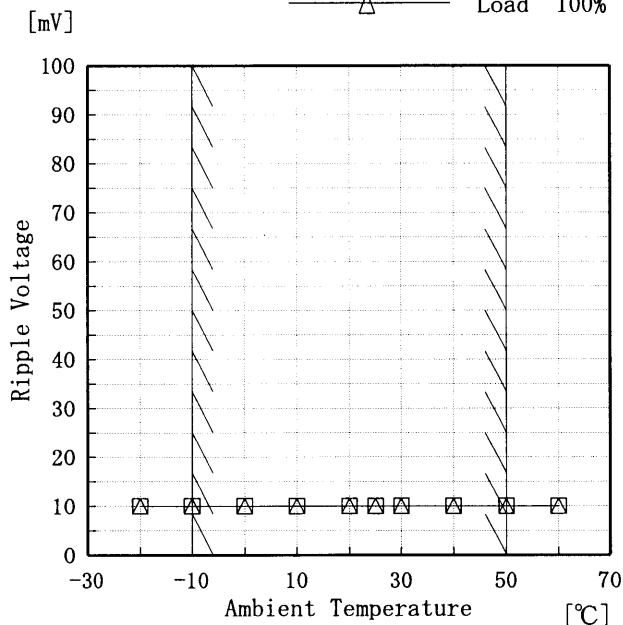
(注)斜線は定格周囲温度範囲を示す。



Model	MAX1600F
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	V1: +15.0V27A

Testing Circuitry Figure A

1. Graph □ Load 50%
△ Load 100%



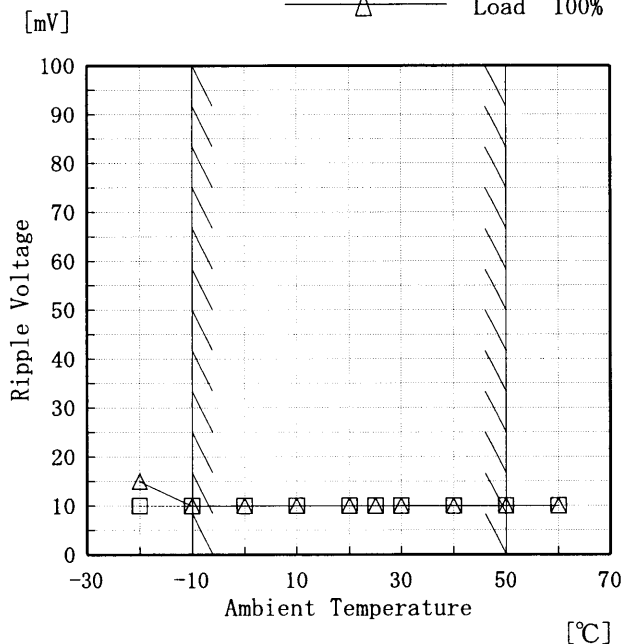
Input Volt. 200 V

2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	10	10
-10	10	10
0	10	10
10	10	10
20	10	10
25	10	10
30	10	10
40	10	10
50	10	10
60	10	10
—	—	—

Object	V2: +18.0V22A
--------	---------------

1. Graph □ Load 50%
△ Load 100%



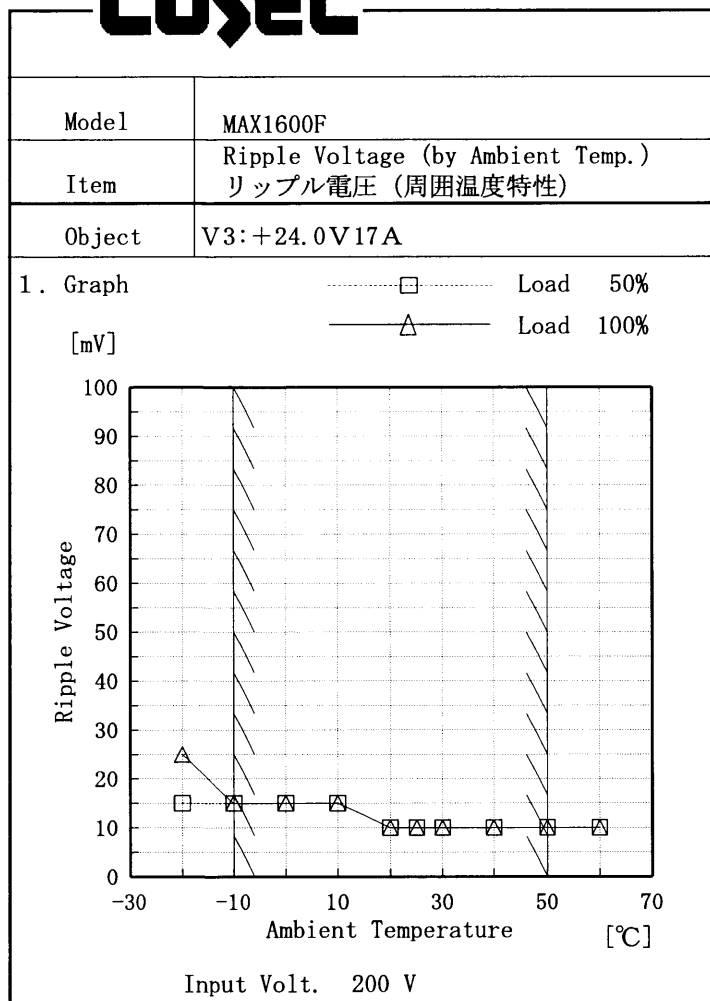
Input Volt. 200 V

2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	10	15
-10	10	10
0	10	10
10	10	10
20	10	10
25	10	10
30	10	10
40	10	10
50	10	10
60	10	10
—	—	—

Note: Slanted line shows the range of the rated ambient temperature.

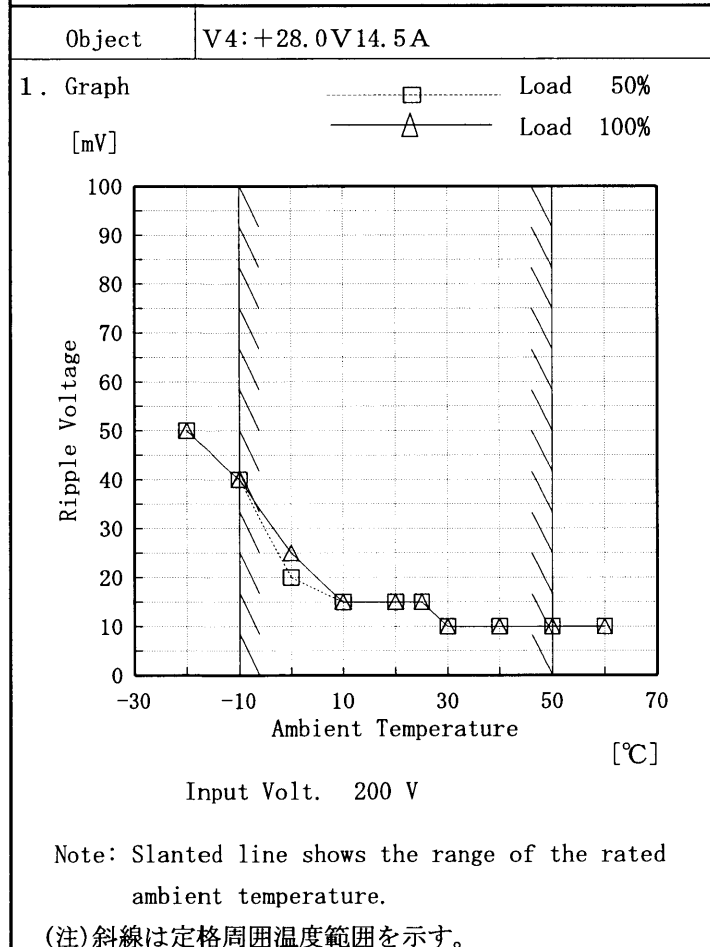
(注)斜線は定格周囲温度範囲を示す。



Testing Circuitry Figure A

2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	15	25
-10	15	15
0	15	15
10	15	15
20	10	10
25	10	10
30	10	10
40	10	10
50	10	10
60	10	10
—	—	—



2. Values

Ambient Temperature [°C]	Ripple Output Voltage [mV]	
	Load 50%	Load 100%
-20	50	50
-10	40	40
0	20	25
10	15	15
20	15	15
25	15	15
30	10	10
40	10	10
50	10	10
60	10	10
—	—	—



COSEL																									
Model	MAX1600F	Temperature	25°C																						
Item	Time Lapse Drift 経時ドリフト	Testing Circuitry	Figure A																						
Object	V1: +15.0V27A																								
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 200V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>15.074</td></tr> <tr><td>0.5</td><td>15.089</td></tr> <tr><td>1.0</td><td>15.089</td></tr> <tr><td>2.0</td><td>15.089</td></tr> <tr><td>3.0</td><td>15.089</td></tr> <tr><td>4.0</td><td>15.089</td></tr> <tr><td>5.0</td><td>15.089</td></tr> <tr><td>6.0</td><td>15.089</td></tr> <tr><td>7.0</td><td>15.089</td></tr> <tr><td>8.0</td><td>15.089</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	15.074	0.5	15.089	1.0	15.089	2.0	15.089	3.0	15.089	4.0	15.089	5.0	15.089	6.0	15.089	7.0	15.089	8.0	15.089
Time since start [H]	Output Voltage [V]																								
0.0	15.074																								
0.5	15.089																								
1.0	15.089																								
2.0	15.089																								
3.0	15.089																								
4.0	15.089																								
5.0	15.089																								
6.0	15.089																								
7.0	15.089																								
8.0	15.089																								
Object	V2: +18.0V22A																								
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 200V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>18.087</td></tr> <tr><td>0.5</td><td>18.072</td></tr> <tr><td>1.0</td><td>18.072</td></tr> <tr><td>2.0</td><td>18.072</td></tr> <tr><td>3.0</td><td>18.072</td></tr> <tr><td>4.0</td><td>18.072</td></tr> <tr><td>5.0</td><td>18.072</td></tr> <tr><td>6.0</td><td>18.072</td></tr> <tr><td>7.0</td><td>18.072</td></tr> <tr><td>8.0</td><td>18.072</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	18.087	0.5	18.072	1.0	18.072	2.0	18.072	3.0	18.072	4.0	18.072	5.0	18.072	6.0	18.072	7.0	18.072	8.0	18.072
Time since start [H]	Output Voltage [V]																								
0.0	18.087																								
0.5	18.072																								
1.0	18.072																								
2.0	18.072																								
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4.0	18.072																								
5.0	18.072																								
6.0	18.072																								
7.0	18.072																								
8.0	18.072																								



COSEL																								
Model	MAX1600F																							
Item	Time Lapse Drift 経時ドリフト	Temperature 25°C Testing Circuitry Figure A																						
Object	V3: +24.0V17A																							
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 200V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>24.066</td></tr> <tr><td>0.5</td><td>24.056</td></tr> <tr><td>1.0</td><td>24.056</td></tr> <tr><td>2.0</td><td>24.056</td></tr> <tr><td>3.0</td><td>24.056</td></tr> <tr><td>4.0</td><td>24.056</td></tr> <tr><td>5.0</td><td>24.056</td></tr> <tr><td>6.0</td><td>24.056</td></tr> <tr><td>7.0</td><td>24.056</td></tr> <tr><td>8.0</td><td>24.056</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	24.066	0.5	24.056	1.0	24.056	2.0	24.056	3.0	24.056	4.0	24.056	5.0	24.056	6.0	24.056	7.0	24.056	8.0	24.056
Time since start [H]	Output Voltage [V]																							
0.0	24.066																							
0.5	24.056																							
1.0	24.056																							
2.0	24.056																							
3.0	24.056																							
4.0	24.056																							
5.0	24.056																							
6.0	24.056																							
7.0	24.056																							
8.0	24.056																							
Object	V4: +28.0V14.5A																							
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p>Input Volt. 200V Load 100%</p>		<p>2. Values</p> <table border="1"> <thead> <tr> <th>Time since start [H]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>28.032</td></tr> <tr><td>0.5</td><td>28.017</td></tr> <tr><td>1.0</td><td>28.017</td></tr> <tr><td>2.0</td><td>28.017</td></tr> <tr><td>3.0</td><td>28.017</td></tr> <tr><td>4.0</td><td>28.017</td></tr> <tr><td>5.0</td><td>28.017</td></tr> <tr><td>6.0</td><td>28.017</td></tr> <tr><td>7.0</td><td>28.017</td></tr> <tr><td>8.0</td><td>28.017</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	28.032	0.5	28.017	1.0	28.017	2.0	28.017	3.0	28.017	4.0	28.017	5.0	28.017	6.0	28.017	7.0	28.017	8.0	28.017
Time since start [H]	Output Voltage [V]																							
0.0	28.032																							
0.5	28.017																							
1.0	28.017																							
2.0	28.017																							
3.0	28.017																							
4.0	28.017																							
5.0	28.017																							
6.0	28.017																							
7.0	28.017																							
8.0	28.017																							



Model		MAX1600F	Testing Circuitry Figure A
Item		Output Voltage Accuracy 定電圧精度	

1. Output Voltage Accuracy 定電圧精度

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.

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。

Temperature 周囲温度 : -10~50 °C

Input Voltage 入力電圧 : 170~264 V

Load Current 負荷電流 (V1) : 0~27 A (V2) : 0~22 A (V3) : 0~17 A (V4) : 0~14.5 A

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

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

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

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

2. Values

Object		V1: +15.0V27A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	-10	200	0	15.114	±18	±0.1
Minimum Voltage	50	200	27	15.078		

Object		V2: +18.0V22A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	50	264	0	18.113	±19	±0.1
Minimum Voltage	-10	264	22	18.076		

Object		V3: +24.0V17A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	50	264	0	24.153	±66	±0.3
Minimum Voltage	-10	264	17	24.021		

Object		V4: +28.0V14.5A				
Item	Temperature [°C]	Input Voltage [V]	Output Current [A]	Output Voltage [V]	Output Voltage Accuracy [mV]	Output Voltage Accuracy (Ration) [%]
Maximum Voltage	50	264	0.0	28.086	±29	±0.1
Minimum Voltage	-10	264	14.5	28.028		

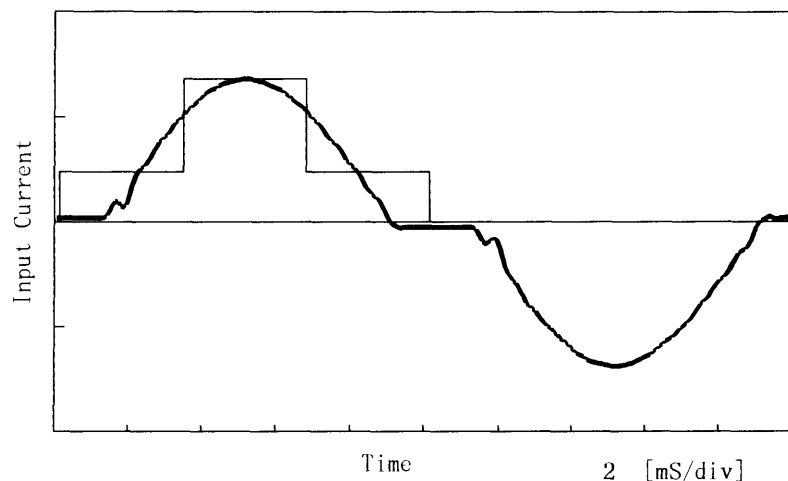
COSEL

Model	MAX1600F	Temperature	25°C
Item	Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object	_____		

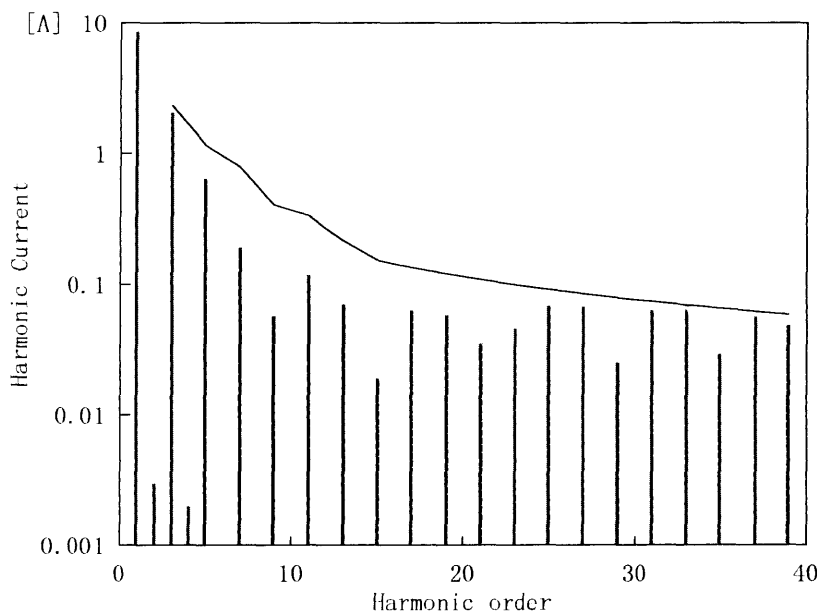
1. Input Current Waveform

Input Current
 Envelope of the input current to classify equipment as Class D
 クラスDの機器を決定するための入力電流包絡線

10 A/div



2. Harmonic Current



Harmonic Current
 高調波電流
 Limits for Class A equipment
 クラスAの機器に対する限度値

Conditions	Values
Input Voltage [V]	230.0
Input Current [A]	8.73
Active Power [W]	1941.1
Apparent Power [VA]	2008.6
Frequency [Hz]	50
Power Factor	0.966
Output Power [W]	1600

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	8.55300
2	—	0.00300
3	2.32527	2.06700
4	—	0.00200
5	1.15253	0.64500
6	—	0.00100
7	0.77846	0.19100
8	—	0.00000
9	0.40440	0.05700
10	—	0.00100
11	0.33363	0.11800
12	—	0.00000
13	0.21231	0.07000
14	—	0.00000
15	0.15165	0.01900
16	—	0.00000
17	0.13381	0.06300
18	—	0.00100
19	0.11972	0.05800
20	—	0.00100
21	0.10832	0.03500
22	—	0.00100
23	0.09890	0.04600
24	—	0.00000
25	0.09099	0.06800
26	—	0.00100
27	0.08425	0.06700
28	—	0.00100
29	0.07844	0.02500
30	—	0.00100
31	0.07338	0.06300
32	—	0.00100
33	0.06893	0.06800
34	—	0.00000
35	0.06499	0.02900
36	—	0.00000
37	0.06148	0.05600
38	—	0.00100
39	0.05833	0.04800
40	—	0.00100

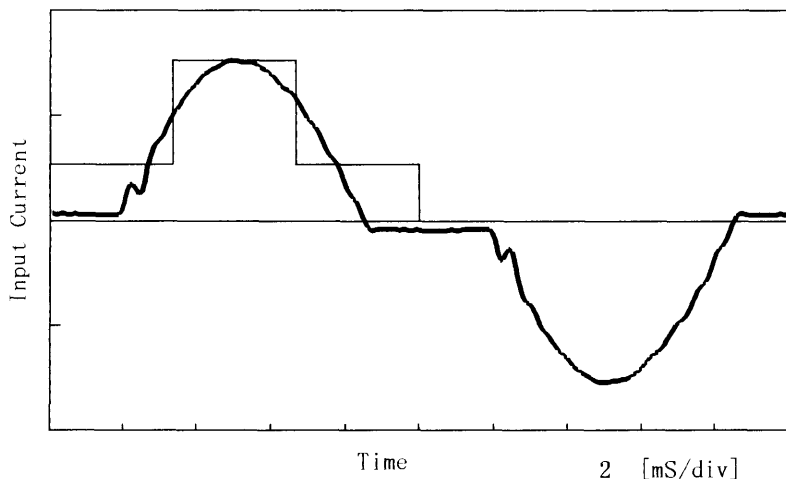


Model		MAX1600F	Temperature	25°C
Item		Harmonic Current 高調波電流	Testing Circuitry	Figure E
Object				

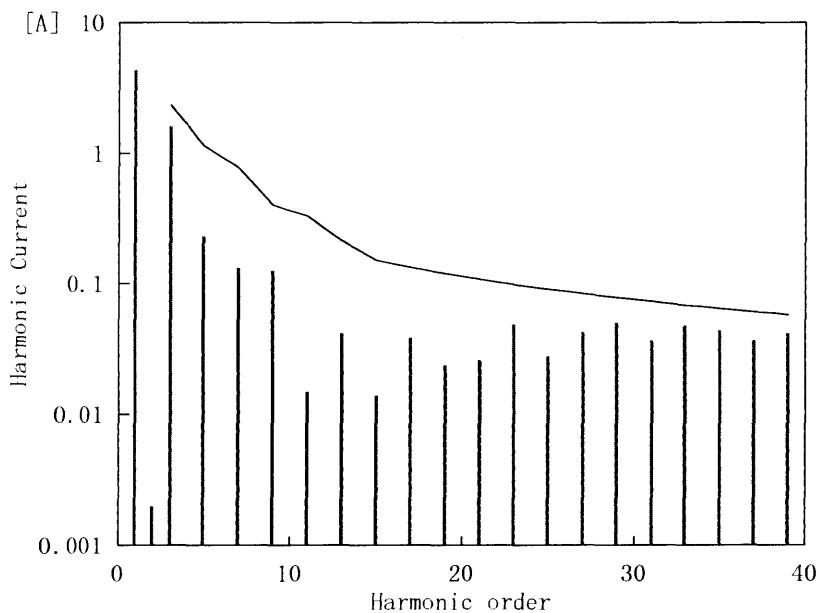
1. Input Current Waveform

— Input Current
 — Envelope of the input current to classify equipment as Class D
 クラスDの機器を決定するための入力電流包絡線

5 A/div



2. Harmonic Current



— Harmonic Current
 高調波電流
 — Limits for Class A equipment
 クラスAの機器に対する限度値

Conditions	Values
Input Voltage [V]	230.0
Input Current [A]	4.64
Active Power [W]	992.3
Apparent Power [VA]	1066.9
Frequency [Hz]	50
Power Factor	0.930
Output Power [W]	800

Harmonics order 高調波次数	Limits 限度値 [A]	Values 測定値 [A]
1	—	4.35200
2	—	0.00200
3	2.30803	1.61300
4	—	0.00100
5	1.14398	0.23300
6	—	0.00000
7	0.77269	0.13200
8	—	0.00000
9	0.40140	0.12600
10	—	0.00100
11	0.33115	0.01500
12	—	0.00100
13	0.21073	0.04200
14	—	0.00100
15	0.15052	0.01400
16	—	0.00000
17	0.13281	0.03900
18	—	0.00000
19	0.11883	0.02400
20	—	0.00100
21	0.10752	0.02600
22	—	0.00100
23	0.09817	0.04900
24	—	0.00100
25	0.09031	0.02800
26	—	0.00100
27	0.08362	0.04300
28	—	0.00000
29	0.07786	0.05100
30	—	0.00100
31	0.07283	0.03700
32	—	0.00000
33	0.06842	0.04800
34	—	0.00000
35	0.06451	0.04400
36	—	0.00100
37	0.06102	0.03700
38	—	0.00100
39	0.05789	0.04200
40	—	0.00000

COSEL

Model		MAX1600F		Testing Circuitry Figure A													
Item		Condensation 結露特性															
<p>1. Condensation test 結露特性試験</p> <p>Testing procedure is as follows.</p> <p>① Keeping and cooling the unit in a tank at -10°C for an hour with the input off.</p> <p>② Taking it out of the tank and dewing itself in a room where the temperature is 25°C and the humidity is 40%RH.</p> <p>③ Testing electrical characteristics of the unit to confirm there be no fault.</p> <p>入力を切った状態で、恒温槽で-10°Cに冷却しておき、約1時間後に恒温槽から取り出し、室温25°C、湿度40%RHの状態におき結露させ、その電気的特性の測定を行い、異常のないことを確認する。</p>																	
2. Values																	
Object		V1: +15.0V27A															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 25%;">Data</th> <th style="width: 50%;">Testing Conditions</th> </tr> </thead> <tbody> <tr> <td>Output Voltage [V]</td> <td style="text-align: center;">15.036</td> <td>Input Volt.: 200V, Load Current:27A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td style="text-align: center;">3</td> <td>Input Volt.: 170~264V, Load Current:27A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td style="text-align: center;">23</td> <td>Input Volt.: 200V, Load Current:0~27A</td> </tr> </tbody> </table>						Item	Data	Testing Conditions	Output Voltage [V]	15.036	Input Volt.: 200V, Load Current:27A	Line Regulation [mV]	3	Input Volt.: 170~264V, Load Current:27A	Load Regulation [mV]	23	Input Volt.: 200V, Load Current:0~27A
Item	Data	Testing Conditions															
Output Voltage [V]	15.036	Input Volt.: 200V, Load Current:27A															
Line Regulation [mV]	3	Input Volt.: 170~264V, Load Current:27A															
Load Regulation [mV]	23	Input Volt.: 200V, Load Current:0~27A															
Object		V2: +18.0V22A															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 25%;">Data</th> <th style="width: 50%;">Testing Conditions</th> </tr> </thead> <tbody> <tr> <td>Output Voltage [V]</td> <td style="text-align: center;">18.079</td> <td>Input Volt.: 200V, Load Current:22A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td style="text-align: center;">7</td> <td>Input Volt.: 170~264V, Load Current:22A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td style="text-align: center;">24</td> <td>Input Volt.: 200V, Load Current:0~22A</td> </tr> </tbody> </table>						Item	Data	Testing Conditions	Output Voltage [V]	18.079	Input Volt.: 200V, Load Current:22A	Line Regulation [mV]	7	Input Volt.: 170~264V, Load Current:22A	Load Regulation [mV]	24	Input Volt.: 200V, Load Current:0~22A
Item	Data	Testing Conditions															
Output Voltage [V]	18.079	Input Volt.: 200V, Load Current:22A															
Line Regulation [mV]	7	Input Volt.: 170~264V, Load Current:22A															
Load Regulation [mV]	24	Input Volt.: 200V, Load Current:0~22A															
Object		V3: +24.0V17A															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 25%;">Data</th> <th style="width: 50%;">Testing Conditions</th> </tr> </thead> <tbody> <tr> <td>Output Voltage [V]</td> <td style="text-align: center;">24.076</td> <td>Input Volt.: 200V, Load Current:17A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td style="text-align: center;">4</td> <td>Input Volt.: 170~264V, Load Current:17A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td style="text-align: center;">18</td> <td>Input Volt.: 200V, Load Current:0~17A</td> </tr> </tbody> </table>						Item	Data	Testing Conditions	Output Voltage [V]	24.076	Input Volt.: 200V, Load Current:17A	Line Regulation [mV]	4	Input Volt.: 170~264V, Load Current:17A	Load Regulation [mV]	18	Input Volt.: 200V, Load Current:0~17A
Item	Data	Testing Conditions															
Output Voltage [V]	24.076	Input Volt.: 200V, Load Current:17A															
Line Regulation [mV]	4	Input Volt.: 170~264V, Load Current:17A															
Load Regulation [mV]	18	Input Volt.: 200V, Load Current:0~17A															
Object		V4: +28.0V14.5A															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 25%;">Data</th> <th style="width: 50%;">Testing Conditions</th> </tr> </thead> <tbody> <tr> <td>Output Voltage [V]</td> <td style="text-align: center;">28.044</td> <td>Input Volt.: 200V, Load Current:14.5A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td style="text-align: center;">6</td> <td>Input Volt.: 170~264V, Load Current:14.5A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td style="text-align: center;">26</td> <td>Input Volt.: 200V, Load Current:0~14.5A</td> </tr> </tbody> </table>						Item	Data	Testing Conditions	Output Voltage [V]	28.044	Input Volt.: 200V, Load Current:14.5A	Line Regulation [mV]	6	Input Volt.: 170~264V, Load Current:14.5A	Load Regulation [mV]	26	Input Volt.: 200V, Load Current:0~14.5A
Item	Data	Testing Conditions															
Output Voltage [V]	28.044	Input Volt.: 200V, Load Current:14.5A															
Line Regulation [mV]	6	Input Volt.: 170~264V, Load Current:14.5A															
Load Regulation [mV]	26	Input Volt.: 200V, Load Current:0~14.5A															



Model		MAX1600F	Temperature	25°C
Item		Leakage Current 漏洩電流		
Object		_____		

1. Results

Standards	Leakage Current [mA]		
	Input Volt. 85 [V]	Input Volt. 100 [V]	Input Volt. 132 [V]
(A) DENTORI	—	—	—
(B) IEC60950	—	—	—

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.85	1.05	1.40

2. Condition

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

交流入力 of 両相について測定し、その大きい方を漏洩電流測定値とする。



Model		MAX1600F		Temperature 25°C Testing Circuitry Figure C	
Item	Line Noise Tolerance 入力雑音耐量				
<p>1. Results</p> <p>Conditions</p> <p>Input Voltage : 200 V Pulse Input Duration: 1 min. or more</p> <p>Pulse Voltage : 2000 V Load : 100 %</p> <p>Pulse Cycle : 10 mS</p>					
Object	V 1 : +15.0V27A				
	Pulse Width [nS]	MODE POLARITY		Malfunction of protective circuits	Fluctuation of output voltage
	50	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK
	1000	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK
Object	V 2 : +18.0V22A				
	Pulse Width [nS]	MODE POLARITY		Malfunction of protective circuits	Fluctuation of output voltage
	50	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK
	1000	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK
Object	V 3 : +24.0V17A				
	Pulse Width [nS]	MODE POLARITY		Malfunction of protective circuits	Fluctuation of output voltage
	50	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK
	1000	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK
Object	V 4 : +28.0V14.5A				
	Pulse Width [nS]	MODE POLARITY		Malfunction of protective circuits	Fluctuation of output voltage
	50	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK
	1000	COMMON	+/-	OK	OK
		NORMAL	+/-	OK	OK



Model		MAX1600F	Temperature	25°C
Item		Conducted Emission 雑音端子電圧	Testing Circuitry	Figure D
Object				

1. Graph

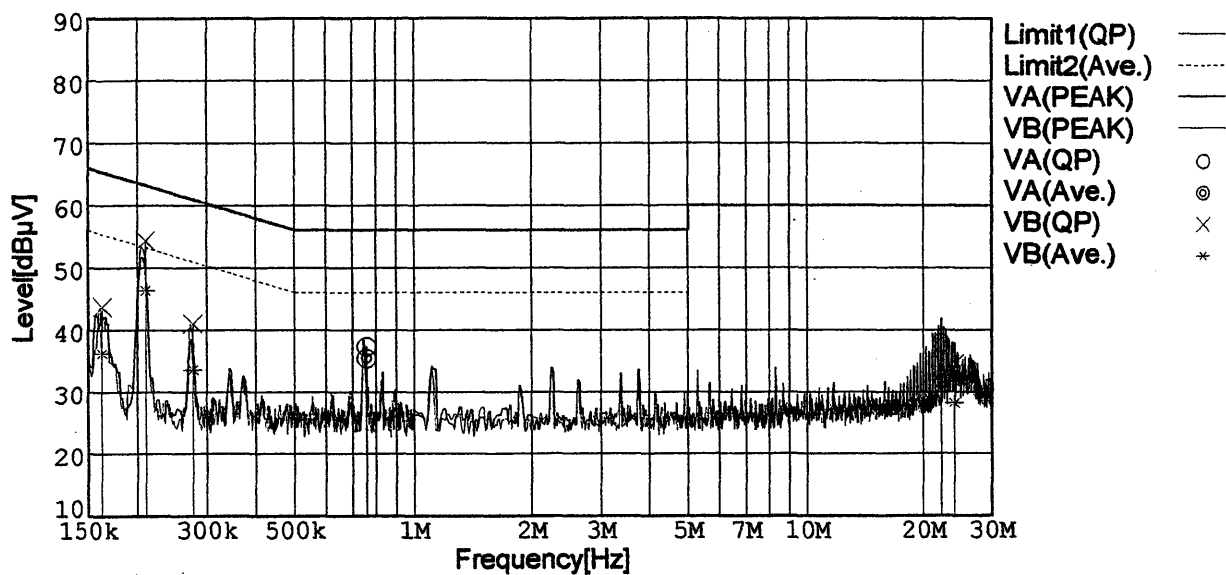
Remarks

Input Volt. 230 V (CISPR Pub22 Class B)

Load 100 %

Limit1: [CISPR Pub22] Class B(QP)

Limit2: [CISPR Pub22] Class B(Ave.)



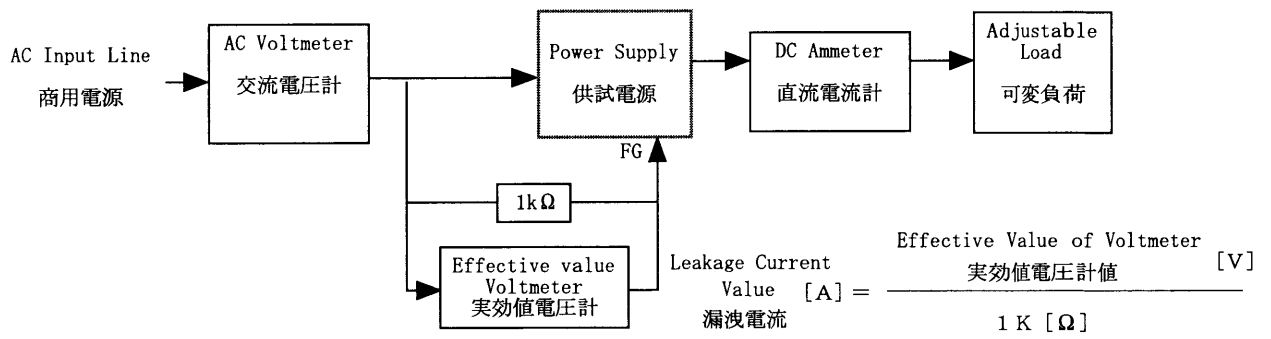
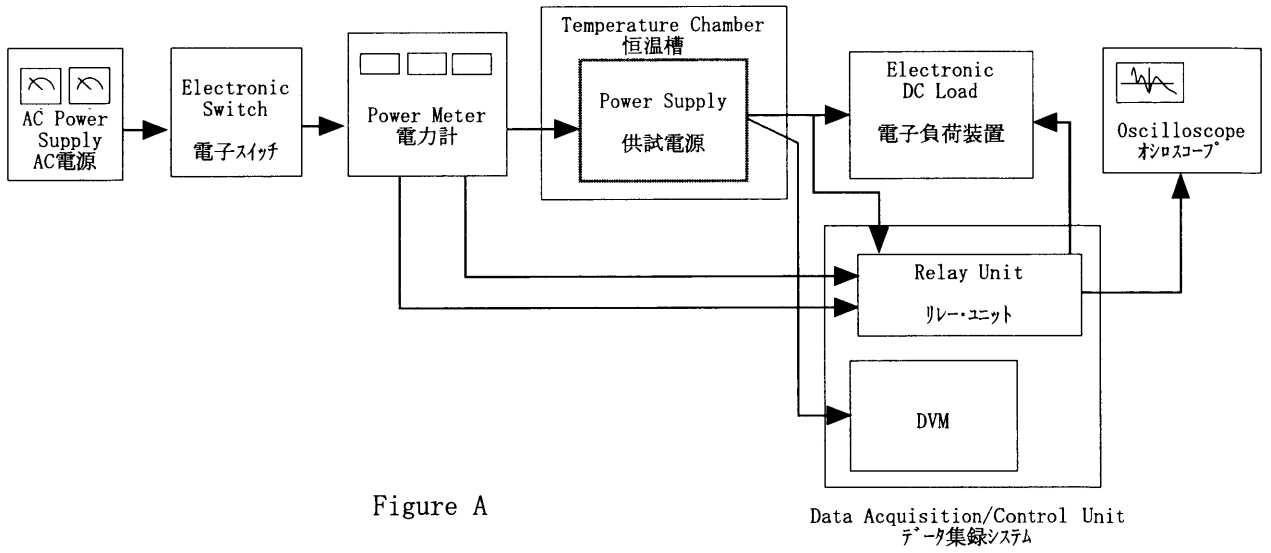


Figure B (DENTORI)

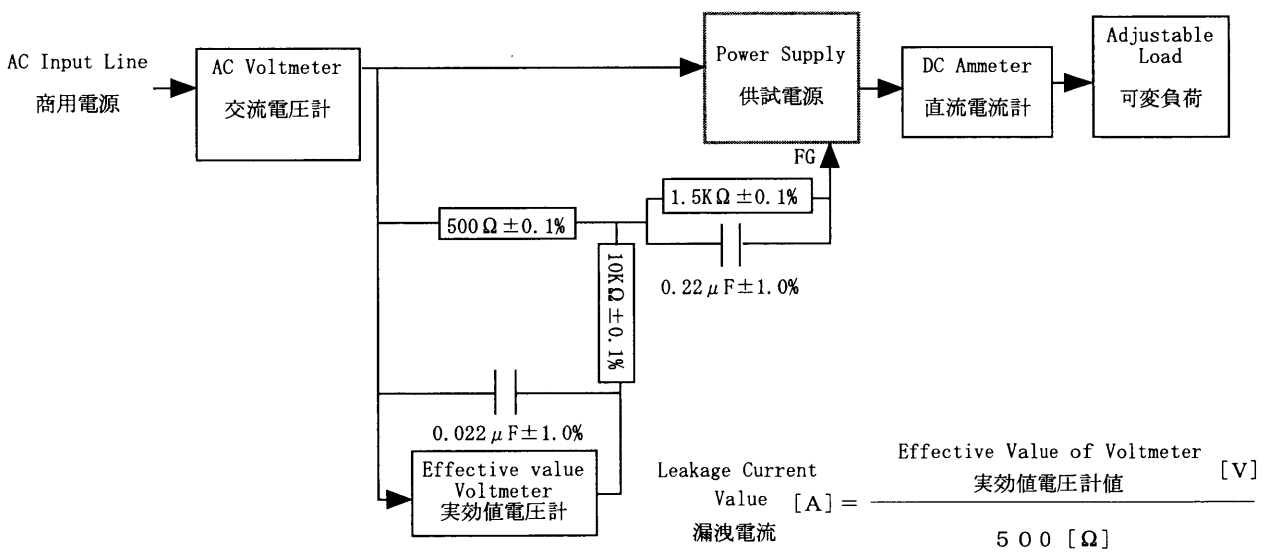


Figure B (IEC60950)

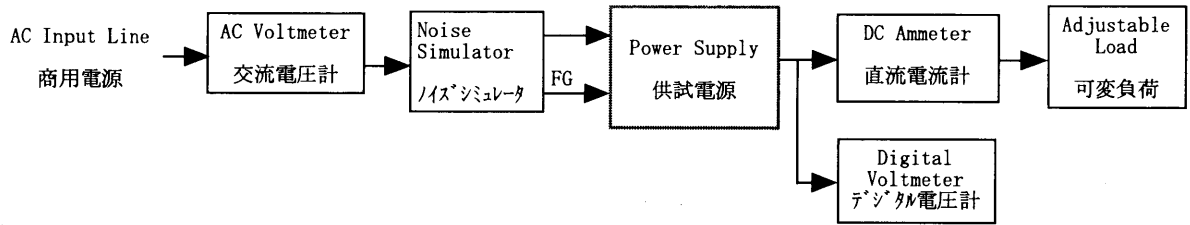


Figure C

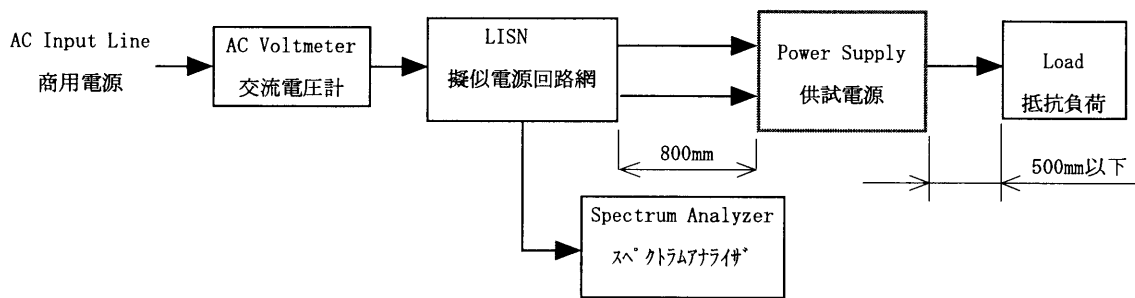


Figure D

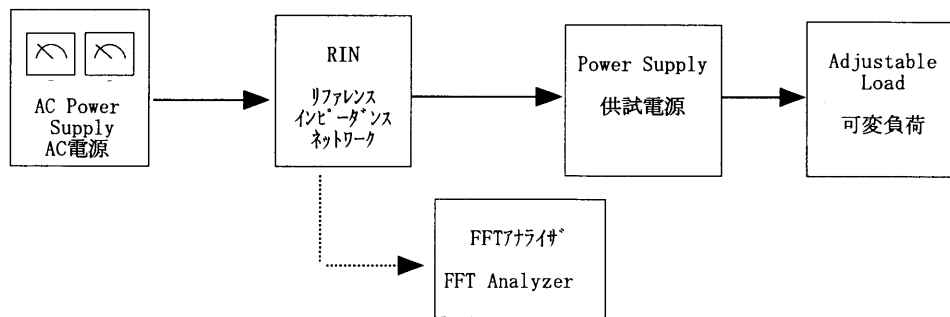


Figure E