



TEST DATA OF M1T-EDCB-00

MAX1600T
(200V INPUT)Modular power supply
Jan. 21, 2002Approved by : Takahiro Yoneda
Takahiro Yoneda Design ManagerPrepared by : Haruki Morita
Haruki Morita Design Engineer

INPUT : AC 170~264V (3-phase)

OUTPUT : V1: 3.3V 80A
V2: 5V 80A
V3: 7.5V 54A
V4: 12V 34A**コーセル株式会社**
COSEL CO.,LTD.

CONTENTS

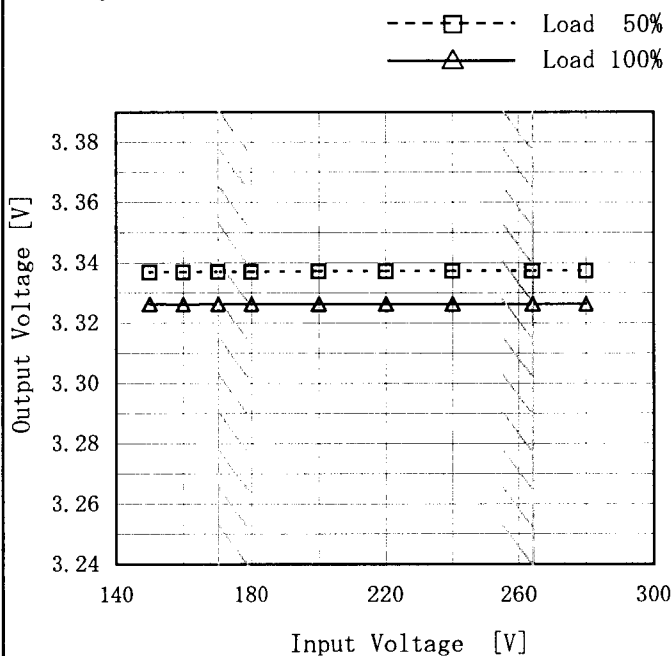
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Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Line Regulation 静の入力変動	Temperature	25°C
Object	V1:+3.3V80A	Testing Circuitry	Figure A

1. Graph

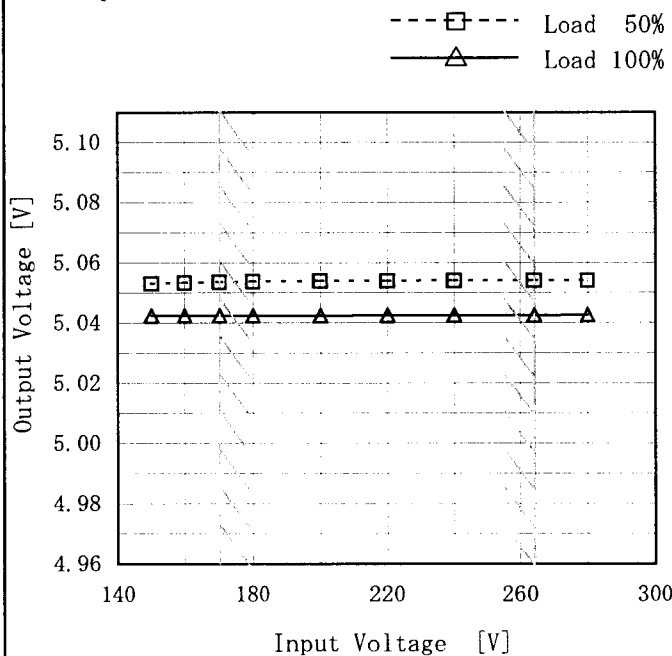


2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
150	3.337	3.326
160	3.337	3.326
170	3.337	3.326
180	3.337	3.326
200	3.337	3.326
220	3.337	3.326
240	3.337	3.326
264	3.337	3.326
280	3.337	3.326

Object	V2:+5V80A
--------	-----------

1. Graph



2. Values

Input Voltage [V]	Output Voltage [V]	
	Load 50%	Load 100%
150	5.053	5.042
160	5.053	5.042
170	5.054	5.042
180	5.054	5.042
200	5.054	5.042
220	5.054	5.043
240	5.054	5.043
264	5.054	5.043
280	5.054	5.043

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>Model MIT-EDCB-00 (MAX1600T)</p> <p>Item Line Regulation 静的入力変動</p> <p>Object V3:+7.5V54A</p>		<p>Input AC 3-phase</p> <p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																
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<p>Object V4:+12V34A</p>																																		
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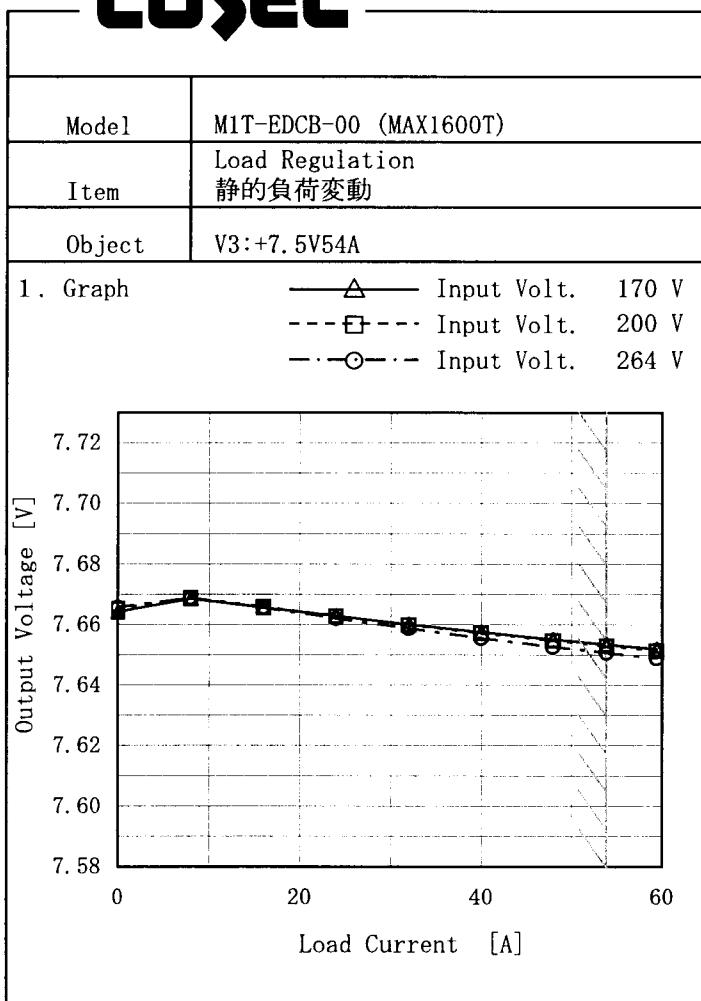
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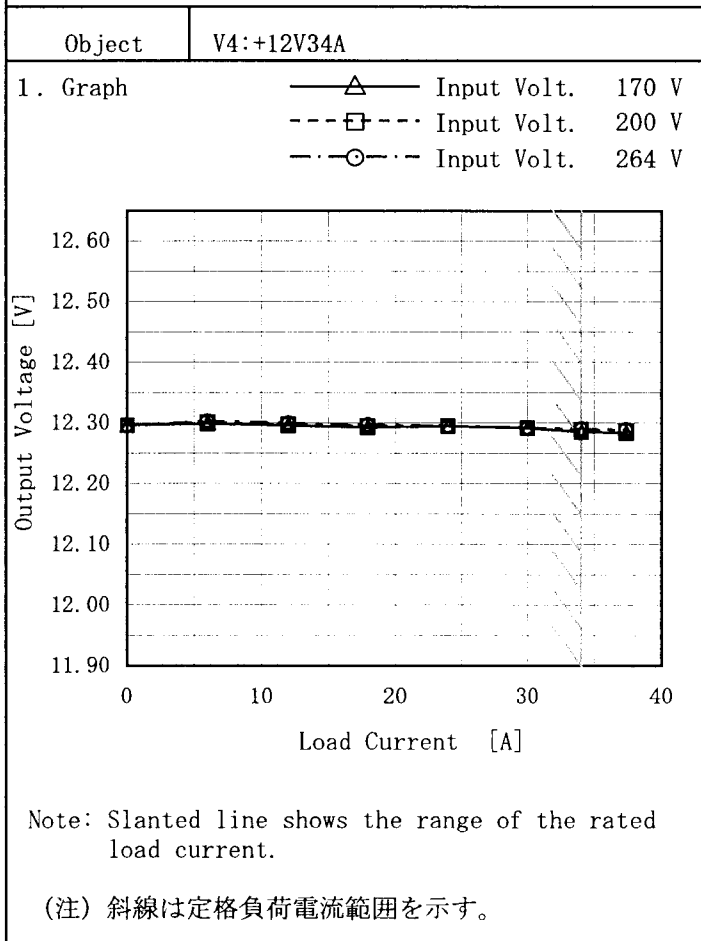
Model MIT-EDCB-00 (MAX1600T)		Input AC 3-phase Temperature 25°C Testing Circuitry Figure A																																																			
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Input AC 3-phase
Temperature 25°C
Testing Circuitry Figure A

2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	7.664	7.665	7.666
8.0	7.669	7.669	7.669
16.0	7.666	7.666	7.666
24.0	7.663	7.663	7.662
32.0	7.660	7.660	7.659
40.0	7.658	7.657	7.656
48.0	7.655	7.655	7.653
54.0	7.654	7.653	7.651
59.4	7.652	7.651	7.649
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2. Values

Load Current [A]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
0.0	12.296	12.296	12.295
6.0	12.299	12.301	12.303
12.0	12.296	12.298	12.300
18.0	12.293	12.295	12.297
24.0	12.295	12.295	12.295
30.0	12.292	12.292	12.292
34.0	12.285	12.290	12.290
37.4	12.284	12.288	12.289
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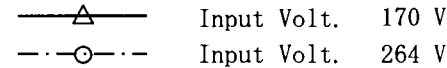
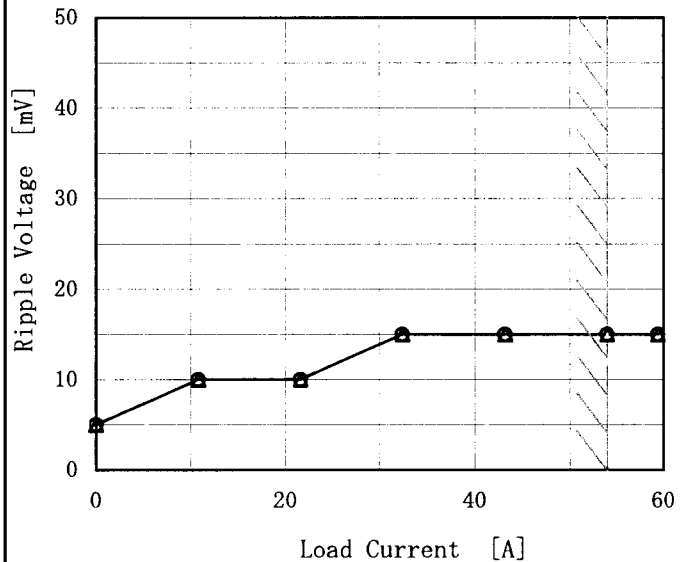
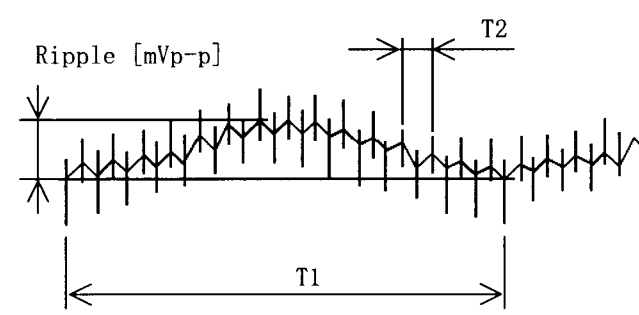


<p>Model MIT-EDCB-00 (MAX1600T)</p> <p>Item Ripple Voltage (by Load Current) リップル電圧 (負荷特性)</p> <p>Object V1:+3.3V80A</p>		<p>Input AC 3-phase</p> <p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
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<p>Model MIT-EDCB-00 (MAX1600T)</p> <p>Item Ripple Voltage (by Load Current) リップル電圧 (負荷特性)</p> <p>Object V2:+5V80A</p>		<p>Input AC 3-phase</p> <p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
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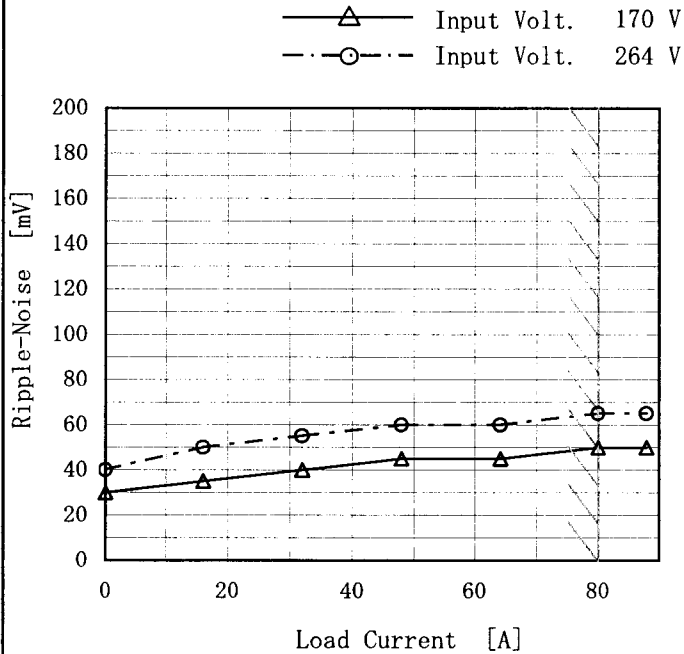
<p>Model MIT-EDCB-00 (MAX1600T)</p> <p>Item Ripple Voltage (by Load Current) リップル電圧 (負荷特性)</p> <p>Object V3:+7.5V54A</p>		<p>Input AC 3-phase</p> <p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
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<p>Model MIT-EDCB-00 (MAX1600T)</p> <p>Item Ripple Voltage (by Load Current) リップル電圧 (負荷特性)</p> <p>Object V4:+12V34A</p>		<p>Input AC 3-phase</p> <p>Temperature 25°C</p> <p>Testing Circuitry Figure A</p>																																						
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Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Ripple-Noise リップルノイズ	Temperature	25°C
Object	V1:+3.3V80A	Testing Circuitry	Figure A

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170[V]	Input Volt. 264[V]
0	30	40
16	35	50
32	40	55
48	45	60
64	45	60
80	50	65
88	50	65
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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

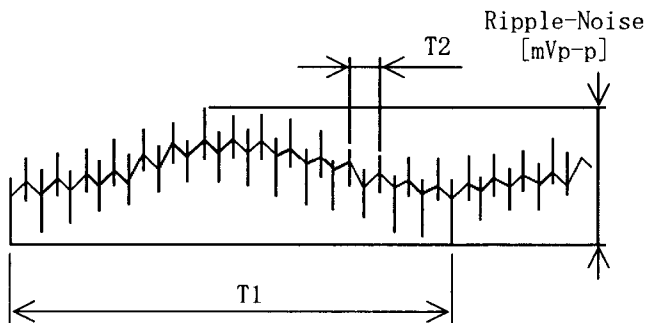
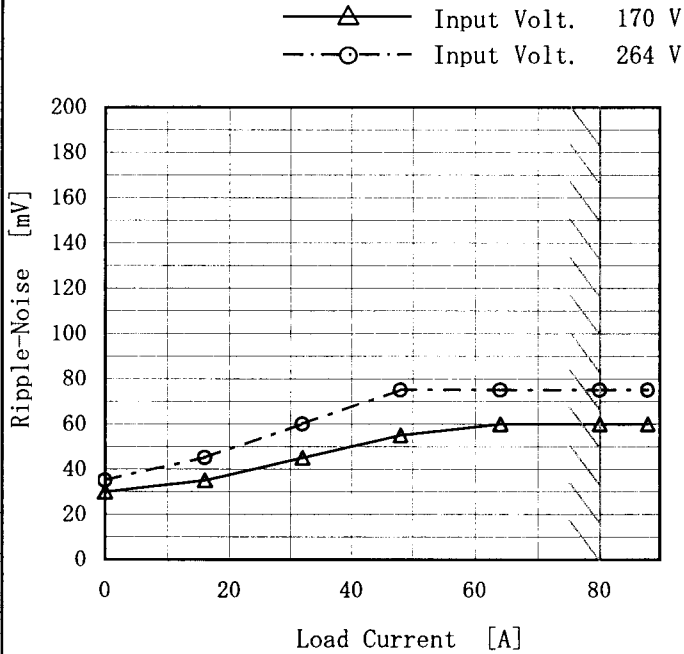


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図



Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Ripple-Noise リップルノイズ	Temperature	25°C
Object	V2:+5V80A	Testing Circuitry	Figure A

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170[V]	Input Volt. 264[V]
0	30	35
16	35	45
32	45	60
48	55	75
64	60	75
80	60	75
88	60	75
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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。
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T1: Due to AC Input Line
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 T2: Due to Switching
 スイッチング周期

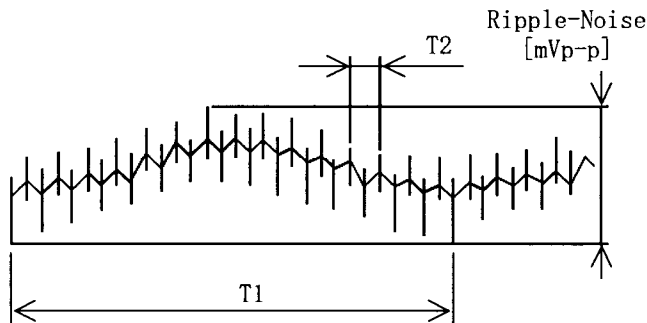
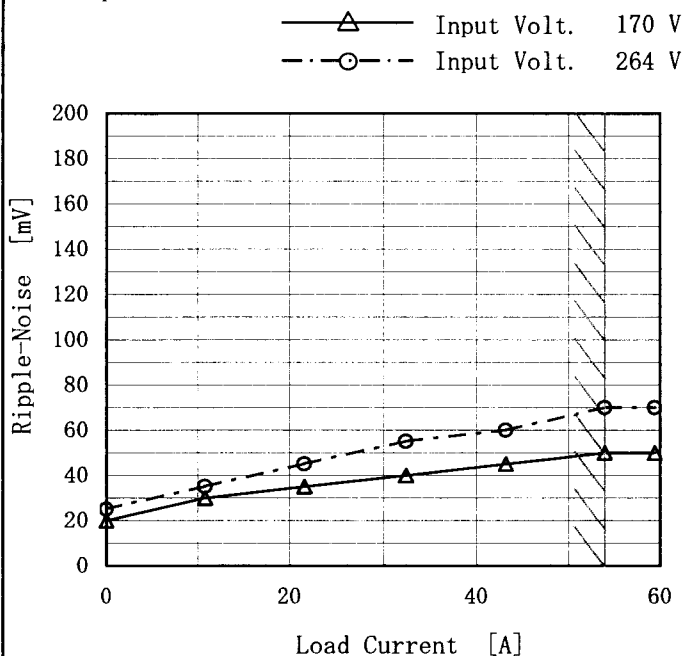


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図

Model	MT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Ripple-Noise リップルノイズ	Temperature	25°C
Object	V3:+7.5V54A	Testing Circuitry	Figure A

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170[V]	Input Volt. 264[V]
0.0	20	25
10.8	30	35
21.6	35	45
32.4	40	55
43.2	45	60
54.0	50	70
59.4	50	70
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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

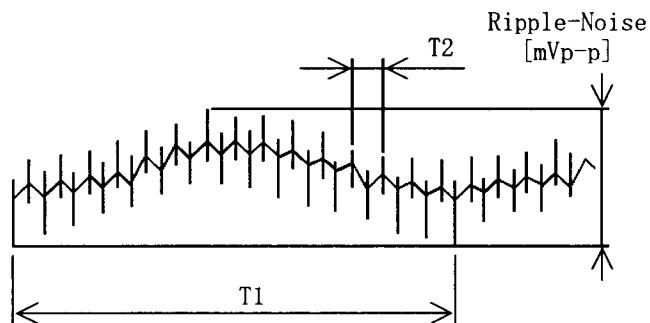
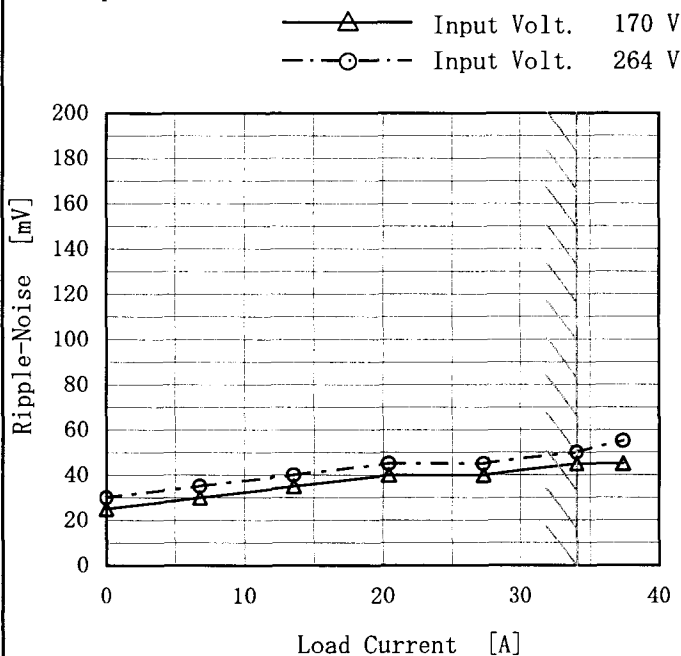


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図

Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Ripple-Noise リップルノイズ	Temperature	25°C
Object	V4:+12V34A	Testing Circuitry	Figure A

1. Graph



2. Values

Load Current [A]	Ripple-Noise [mV]	
	Input Volt. 170[V]	Input Volt. 264[V]
0.0	25	30
6.8	30	35
13.6	35	40
20.4	40	45
27.2	40	45
34.0	45	50
37.4	45	55
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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

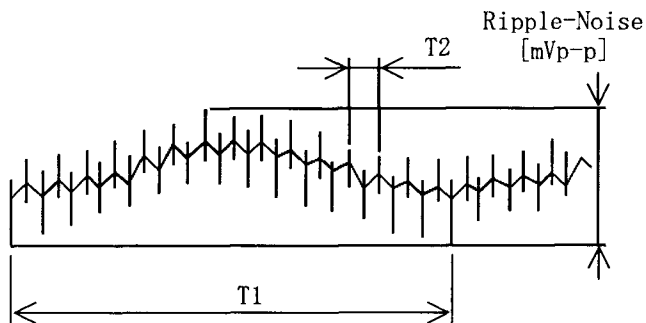


Fig. Complex Ripple Wave Form
 図 リップル波形詳細図

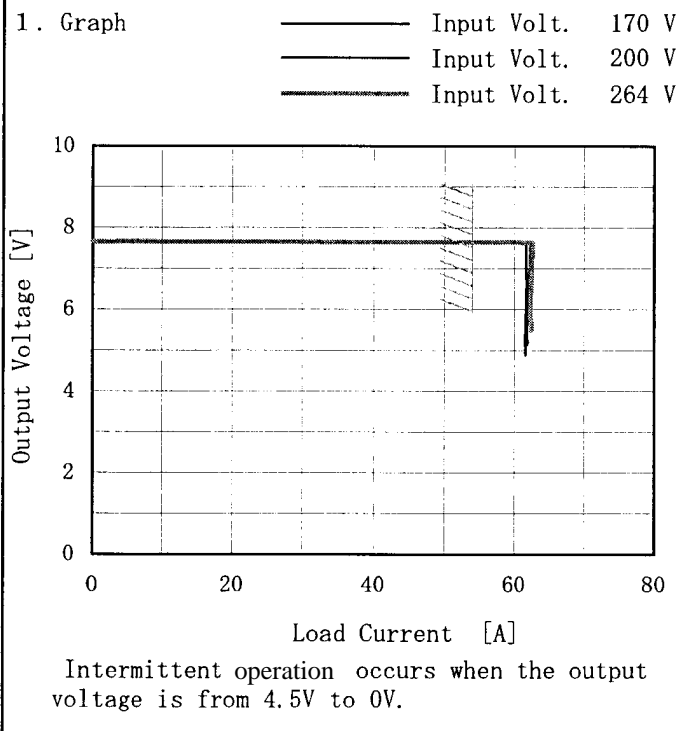


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Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase																																																											
Item	Overcurrent Protection 過電流保護	Temperature	25°C																																																											
Object	V1:+3.3V80A	Testing Circuitry	Figure A																																																											
<p>1. Graph</p> <p> Input Volt. 170 V Input Volt. 200 V Input Volt. 264 V </p> <p style="text-align: center;">Load Current [A]</p> <p>Intermittent operation occurs when the output voltage is from 2.5V to 0V.</p>		<p>2. Values</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>3.300</td><td>84.73</td><td>80.90</td><td>80.10</td></tr> <tr><td>3.135</td><td>95.47</td><td>95.38</td><td>95.92</td></tr> <tr><td>2.970</td><td>95.70</td><td>95.65</td><td>96.09</td></tr> <tr><td>2.640</td><td>95.82</td><td>95.66</td><td>96.25</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> <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> <tr><td>--</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]	3.300	84.73	80.90	80.10	3.135	95.47	95.38	95.92	2.970	95.70	95.65	96.09	2.640	95.82	95.66	96.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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Model	MIT-EDCB-00 (MAX1600T)
Item	Overcurrent Protection 過電流保護
Object	V3:+7.5V54A

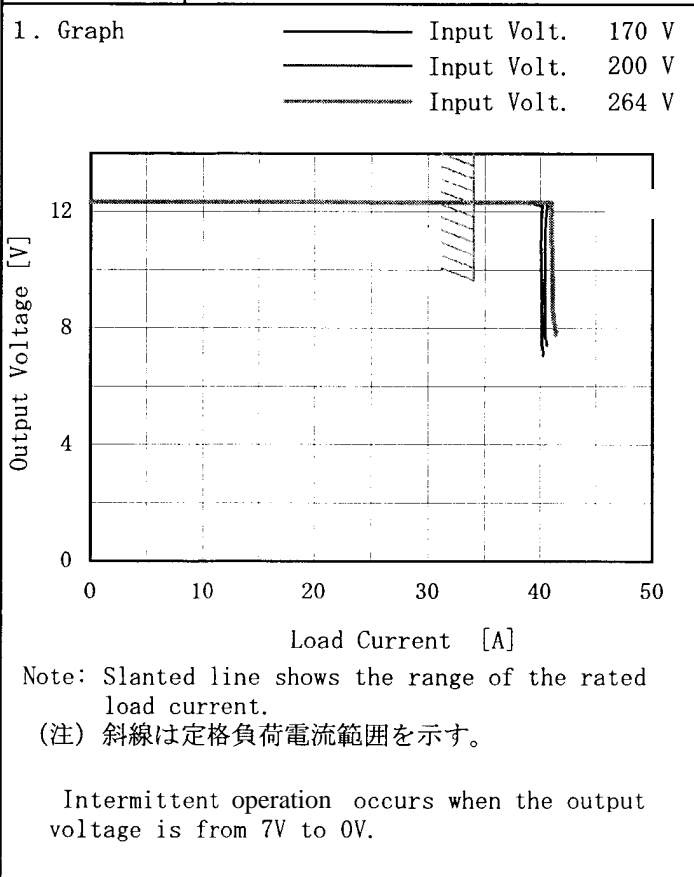
Input	AC 3-phase
Temperature	25°C
Testing Circuitry	Figure A



2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
7.500	60.51	59.43	62.76
7.125	61.71	62.26	62.54
6.750	61.79	62.16	62.49
6.000	61.71	61.98	62.35
5.250	61.60	61.94	62.48
4.500	61.65	61.92	62.48
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Object	V4:+12V34A
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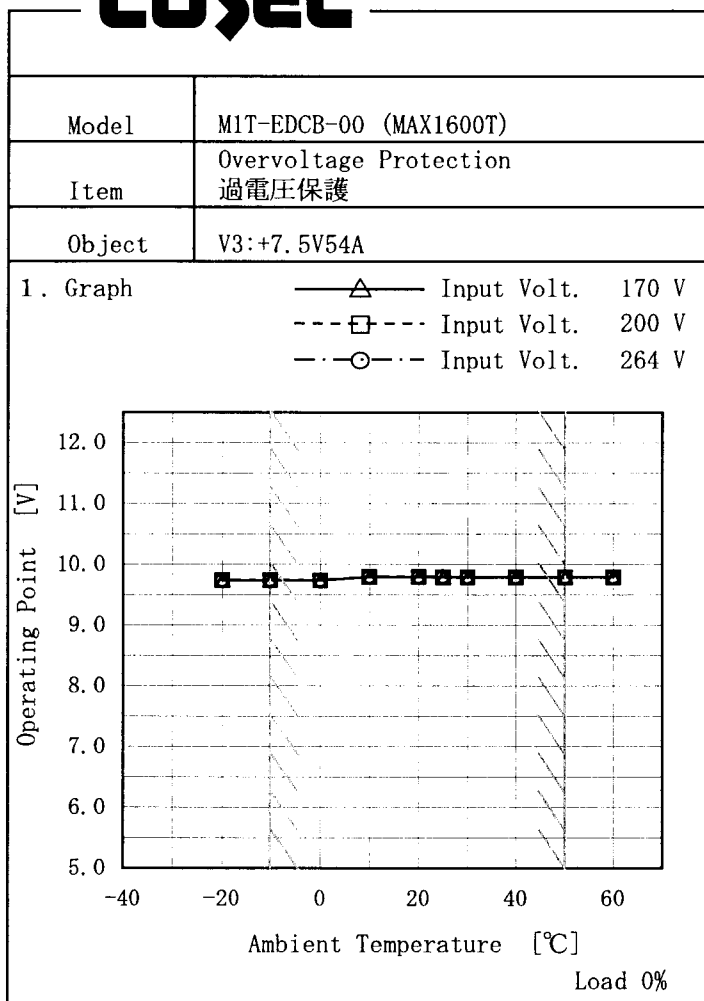


2. Values

Output Voltage [V]	Load Current [A]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
12.0	40.22	40.64	41.00
11.4	40.10	40.46	40.98
10.8	40.08	40.44	41.05
9.6	40.14	40.44	41.08
8.4	40.17	40.47	41.15
7.2	40.30	40.59	41.36
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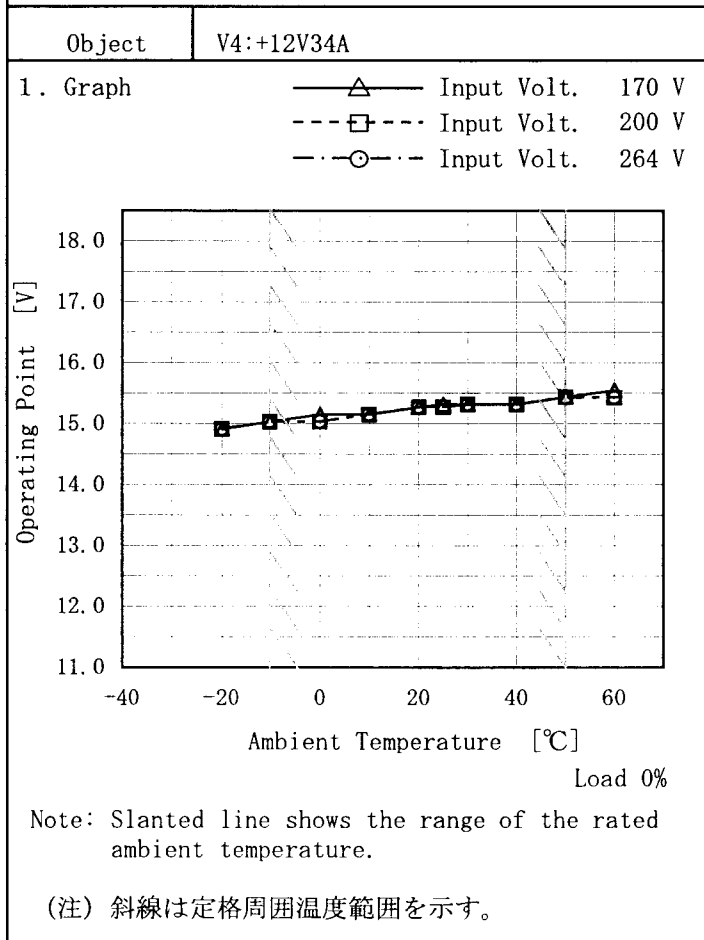
<p>Model MIT-EDCB-00 (MAX1600T)</p> <p>Item Overvoltage Protection 過電圧保護</p> <p>Object V1:+3.3V80A</p>		<p>Input AC 3-phase</p> <p>Testing Circuitry Figure A</p>																																																			
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Ambient Temperature [°C]	Operating Point [V]																																																				
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<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>																																																					



Input Testing Circuitry AC 3-phase Figure A

2. Values

Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	9.74	9.74	9.74
-10	9.74	9.74	9.74
0	9.74	9.74	9.74
10	9.80	9.80	9.80
20	9.80	9.80	9.80
25	9.79	9.79	9.80
30	9.79	9.79	9.79
40	9.79	9.79	9.79
50	9.79	9.79	9.79
60	9.79	9.79	9.79
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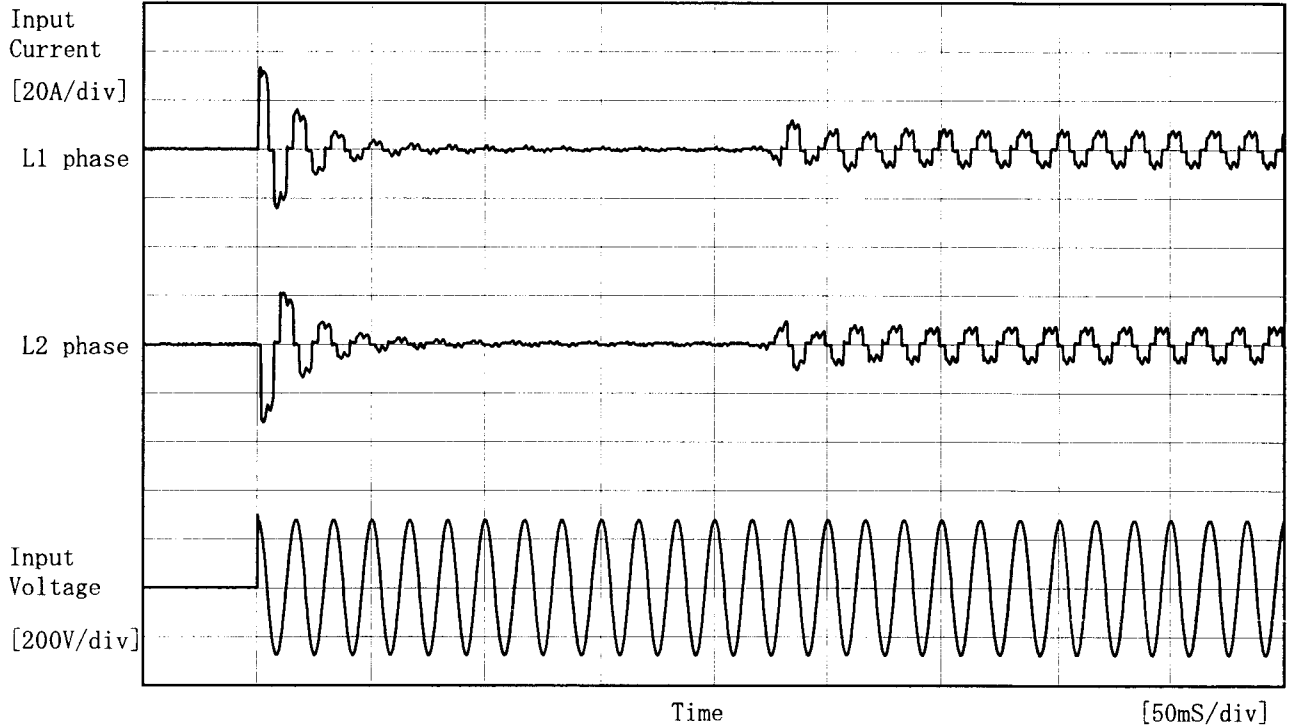


2. Values

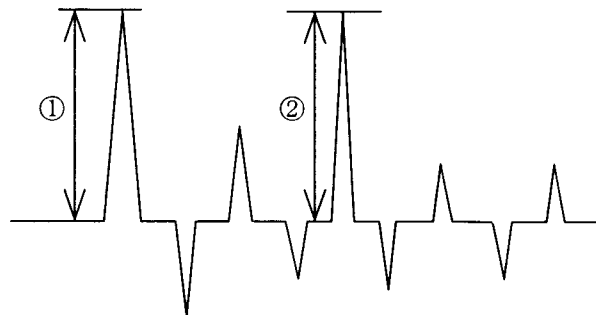
Ambient Temperature [°C]	Operating Point [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	14.91	14.91	14.91
-10	15.03	15.03	15.03
0	15.15	15.03	15.03
10	15.15	15.15	15.15
20	15.27	15.27	15.27
25	15.32	15.27	15.27
30	15.32	15.32	15.32
40	15.32	15.32	15.32
50	15.44	15.44	15.43
60	15.55	15.43	15.43
--	—	—	—



		Input	AC 3-phase
Model	MIT-EDCB-00 (MAX1600T)	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 33.6 [A]
 ② 12.0 [A]



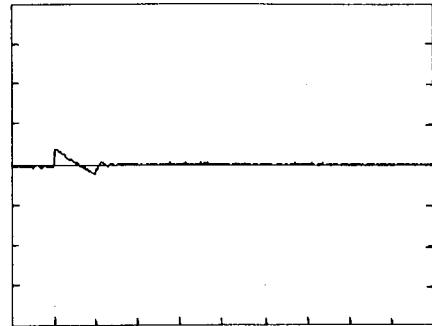
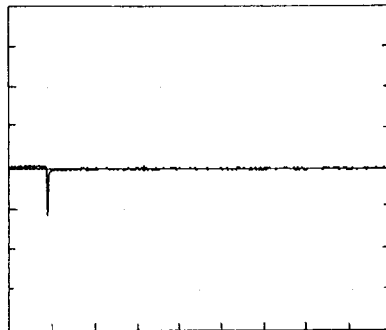


Model		MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item		Dynamic Load Responce 動的負荷変動	Temperature	25°C
Object		V1: +3.3V80A	Testing Circuitry	Figure A

Input Volt. 200 V
Cycle 1000 mS

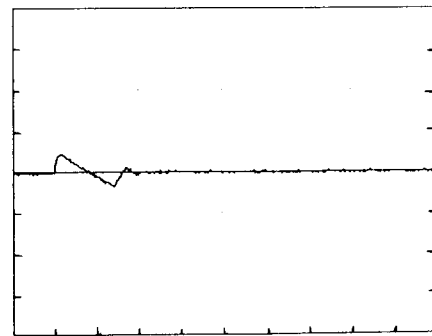
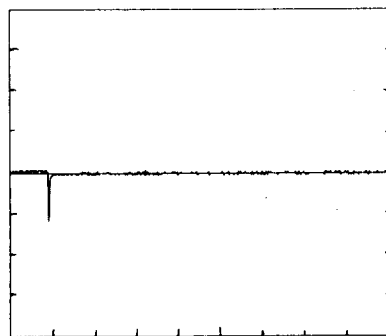


Load 0 % ←→
Load 100 %



Load 0 % ←→
Load 50 %

500 mV/div

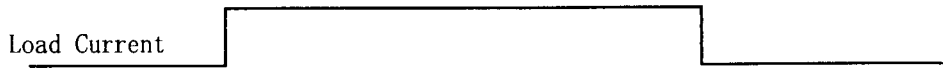


5 mS/div

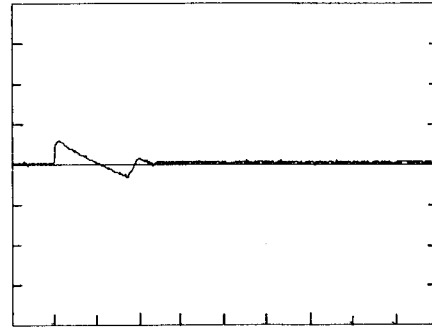
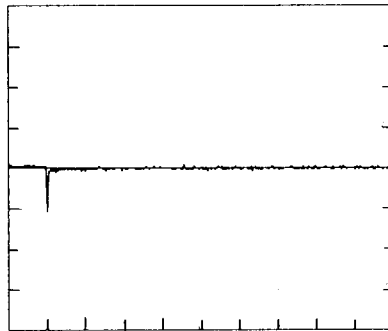


Model	M1T-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Dynamic Load Responce 動的負荷変動	Temperature	25°C
Object	V2: +5V80A	Testing Circuitry	Figure A

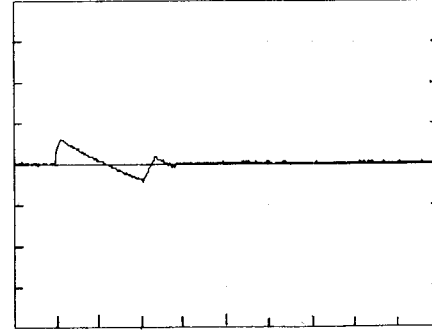
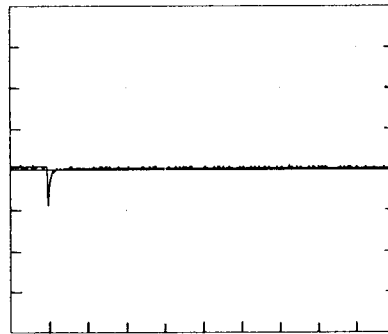
Input Volt. 200 V
Cycle 1000 mS



Load 0 % ↔
Load 100 %



Load 0 % ↔
Load 50 %



500 mV/div

5 mS/div

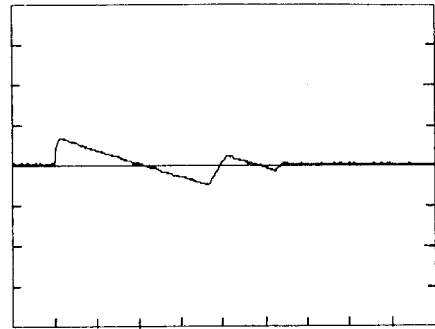
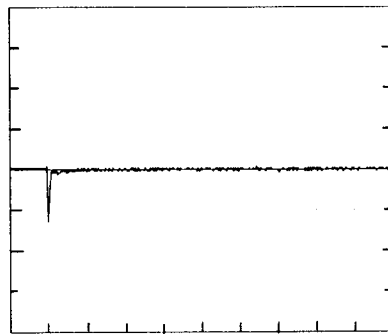


Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Dynamic Load Responce 動的負荷変動	Temperature	25°C
Object	V3: +7.5V54A	Testing Circuitry	Figure A

Input Volt. 200 V
Cycle 1000 mS

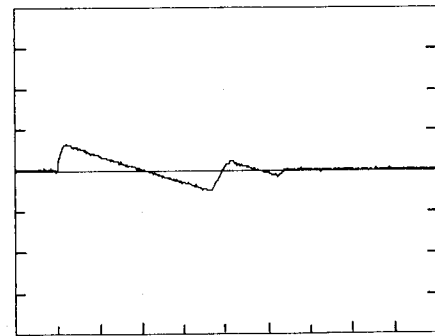
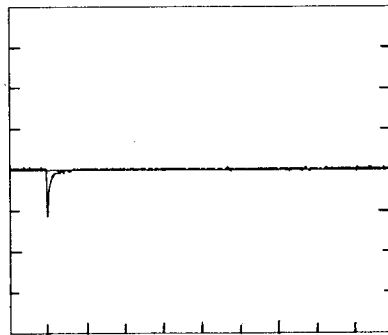


Load 0 % ↔
Load 100 %



Load 0 % ↔
Load 50 %

500 mV/div



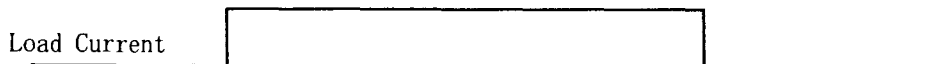
5 mS/div



Model		MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item		Dynamic Load Responce 動的負荷変動	Temperature	25°C
Object		V4: +12V34A	Testing Circuitry	Figure A

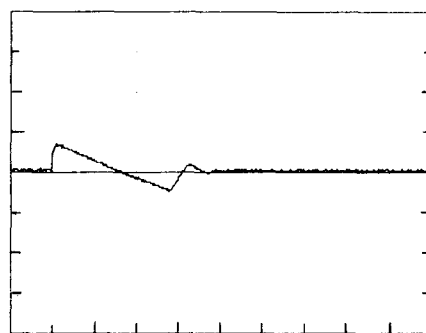
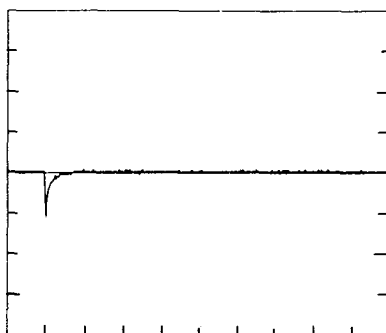
Input Volt. 200 V

Cycle 1000 mS



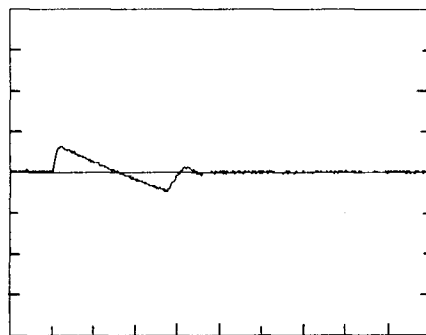
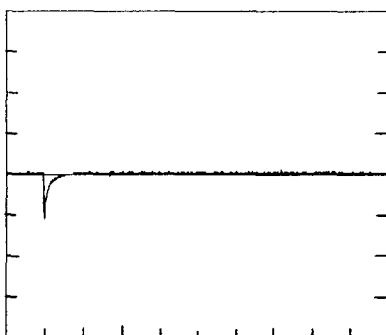
Load 0 % ←→

Load 100 %



Load 0 % ←→

Load 50 %



500 mV/div

5 mS/div

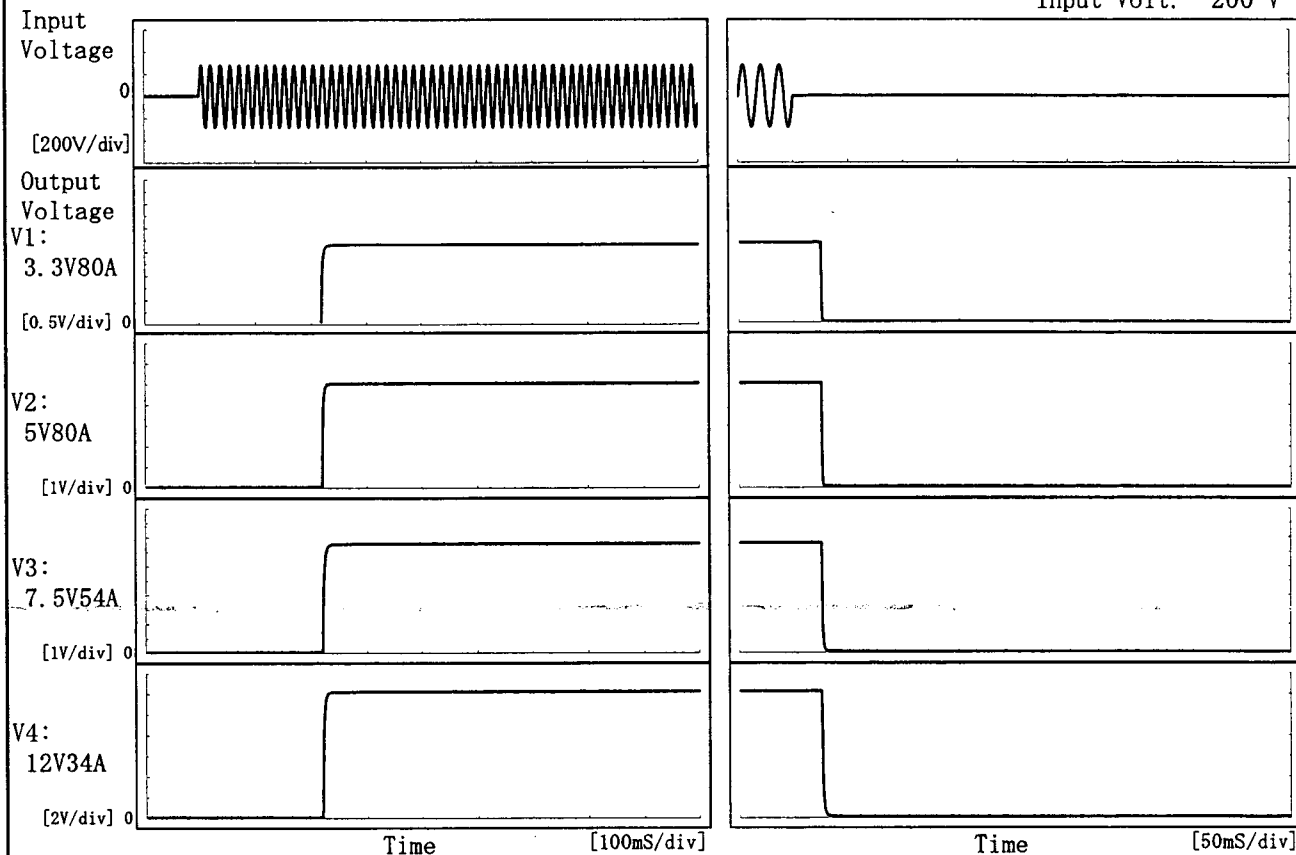


Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Rise and Fall Time 立上り、立下り時間	Temperature	25°C
Object	_____	Testing Circuitry	Figure A

1. Graph

Load 100%

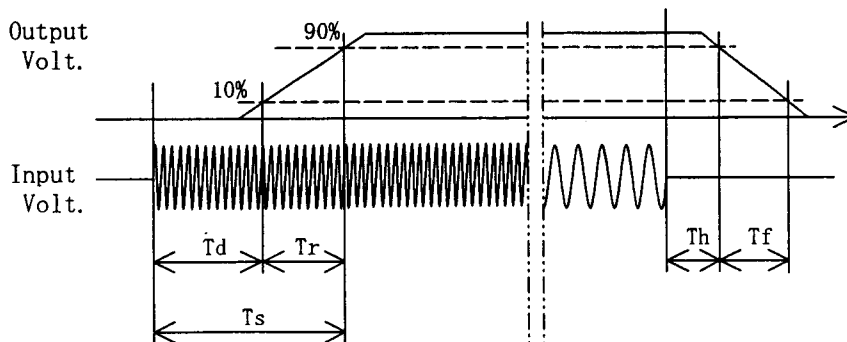
Input Volt. 200 V



2. Values

[mS]

Load \ Time	T d	T r	T s	T h	T f
V1	218.5	5.0	223.5	24.8	1.0
V2	218.5	4.0	222.5	25.0	1.0
V3	219.0	6.0	225.0	25.0	2.0
V4	219.0	4.5	223.5	25.0	2.5



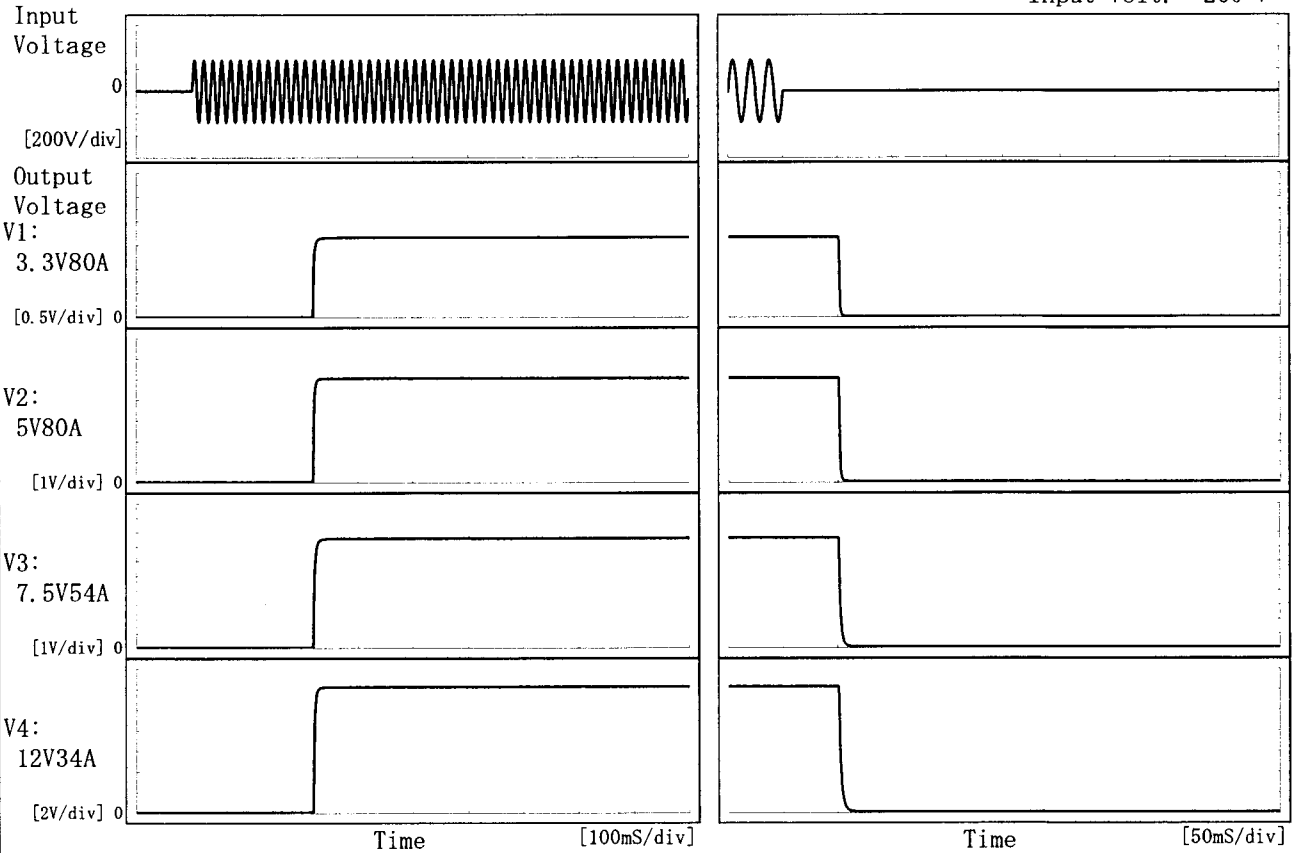


Model		M1T-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item		Rise and Fall Time 立上り、立下り時間	Temperature	25°C
Object			Testing Circuitry	Figure A

1. Graph

Load 50%

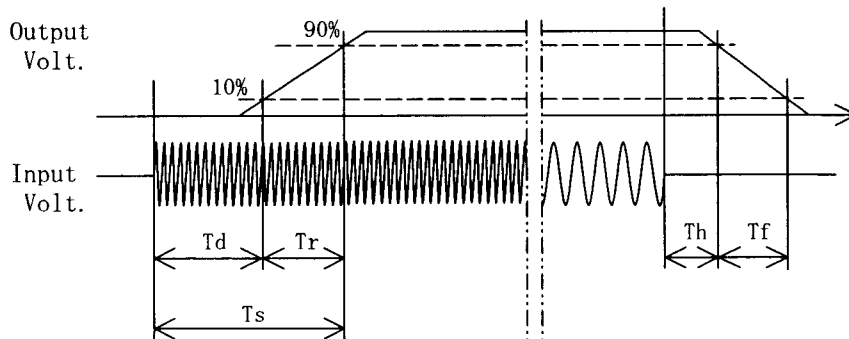
Input Volt. 200 V



2. Values

[mS]

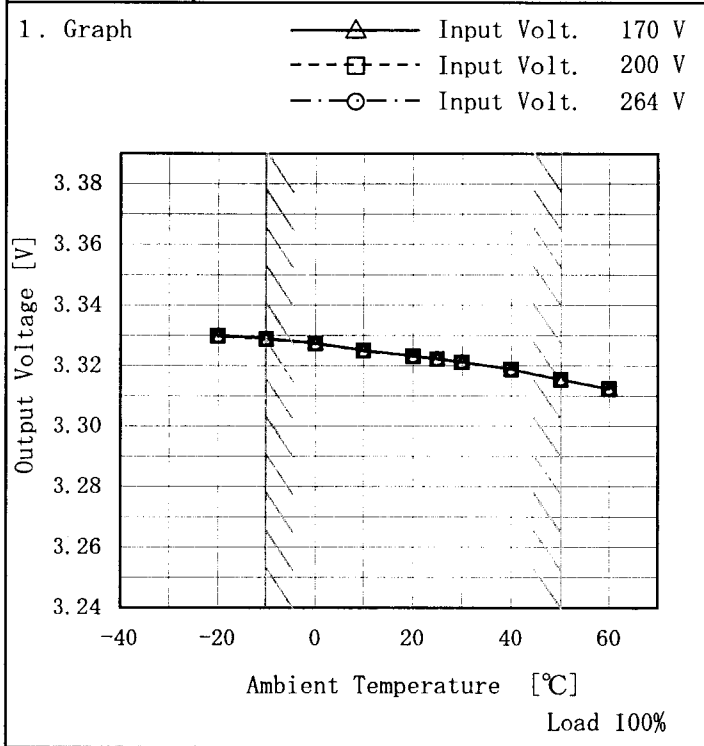
Time \ Load	T d	T r	T s	T h	T f
V1	218.0	5.0	223.0	51.0	2.0
V2	218.5	4.0	222.5	51.3	1.8
V3	218.5	6.0	224.5	51.3	4.0
V4	218.5	4.5	223.0	51.3	4.8





Model	MIT-EDCB-00 (MAX1600T)
Item	Ambient Temperature Drift 周囲温度変動
Object	V1:+3.3V80A

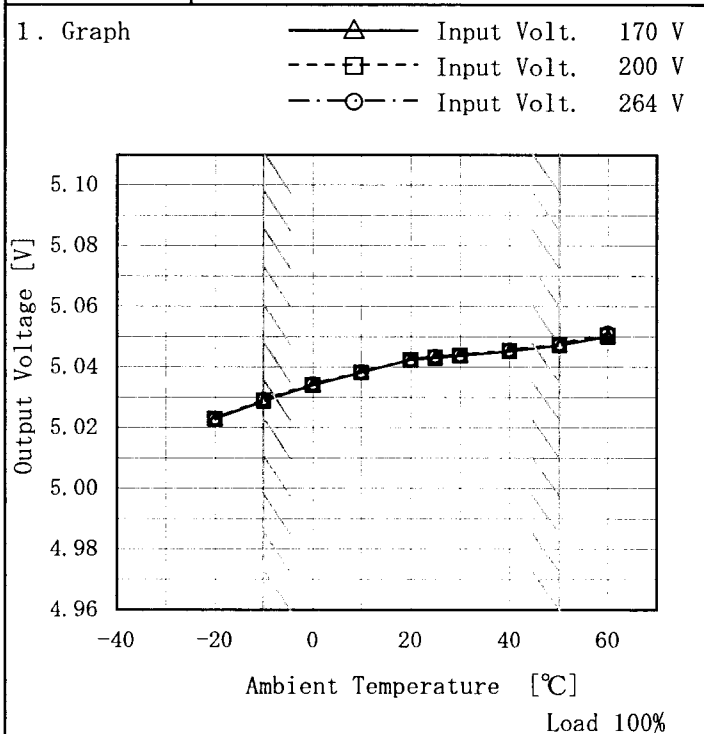
Input AC 3-phase
Testing Circuitry Figure A



2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	3.330	3.330	3.330
-10	3.329	3.329	3.329
0	3.328	3.327	3.327
10	3.325	3.325	3.325
20	3.323	3.323	3.323
25	3.322	3.322	3.322
30	3.321	3.321	3.321
40	3.319	3.319	3.319
50	3.316	3.316	3.316
60	3.312	3.312	3.312
--	--	--	--

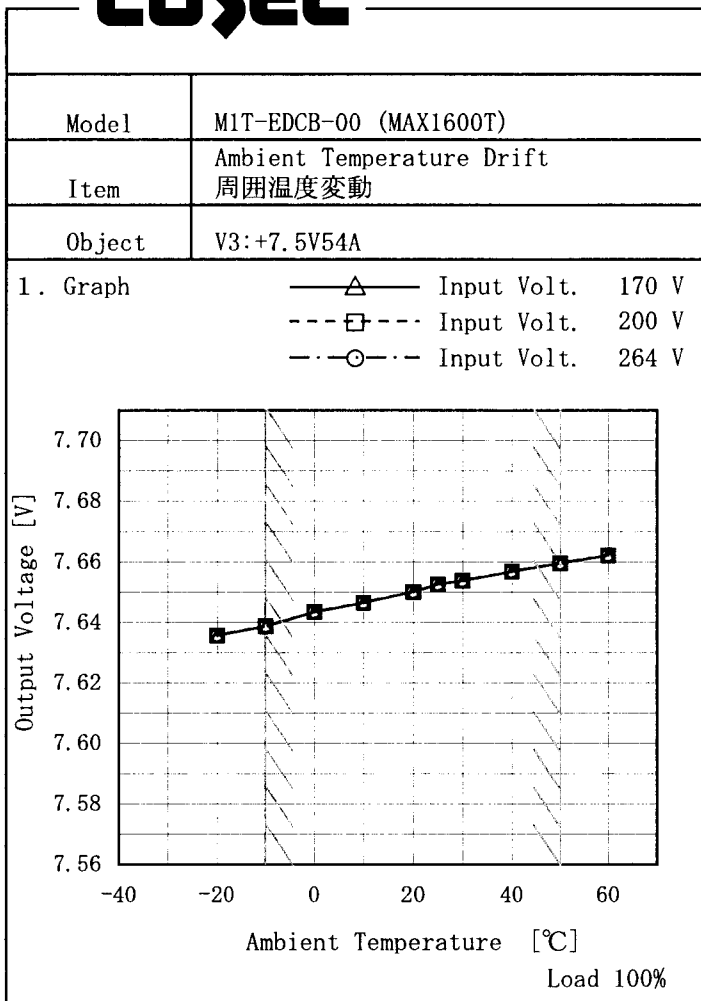
Object	V2:+5V80A
--------	-----------



2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	5.023	5.023	5.023
-10	5.029	5.029	5.029
0	5.034	5.034	5.034
10	5.038	5.038	5.038
20	5.042	5.042	5.042
25	5.043	5.043	5.044
30	5.044	5.044	5.044
40	5.045	5.046	5.046
50	5.047	5.048	5.048
60	5.050	5.051	5.051
--	--	--	--

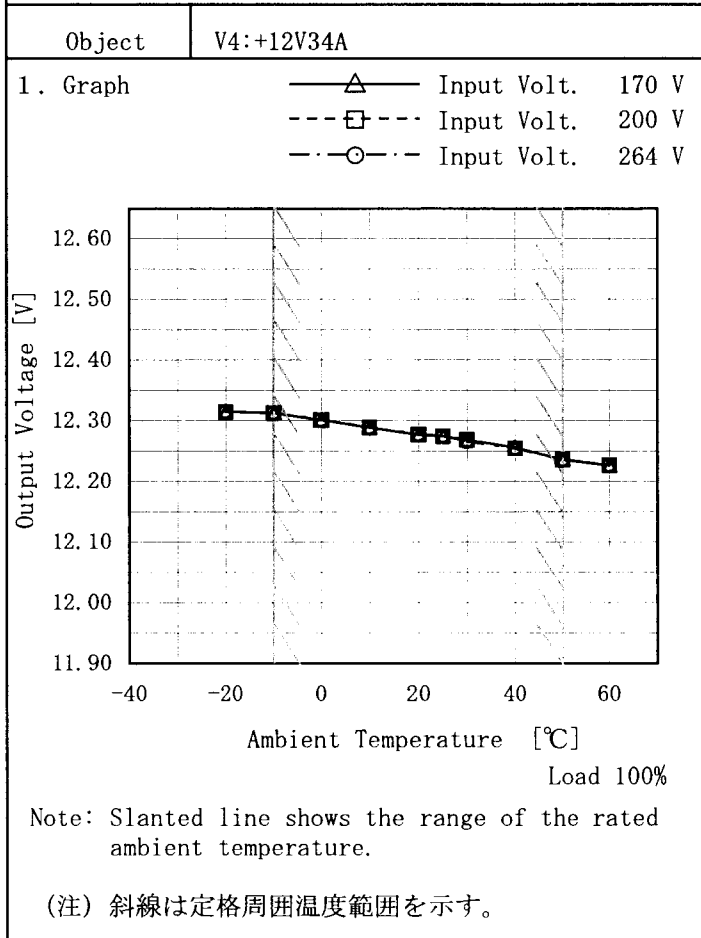
Note: Slanted line shows the range of the rated ambient temperature.
 (注) 斜線は定格周囲温度範囲を示す。



Input AC 3-phase
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	7.636	7.636	7.636
-10	7.639	7.639	7.639
0	7.644	7.644	7.644
10	7.647	7.647	7.647
20	7.650	7.650	7.650
25	7.653	7.653	7.653
30	7.654	7.654	7.654
40	7.657	7.657	7.657
50	7.660	7.660	7.660
60	7.662	7.662	7.662
--	—	—	—



2. Values

Ambient Temperature [°C]	Output Voltage [V]		
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]
-20	12.315	12.314	12.315
-10	12.313	12.313	12.313
0	12.301	12.301	12.301
10	12.289	12.289	12.289
20	12.277	12.277	12.277
25	12.274	12.274	12.274
30	12.268	12.269	12.265
40	12.256	12.255	12.254
50	12.236	12.236	12.236
60	12.226	12.226	12.226
--	—	—	—



<p>Model MIT-EDCB-00 (MAX1600T)</p>		<p>Input AC 3-phase</p>																																							
<p>Item Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧</p>		<p>Testing Circuitry Figure A</p>																																							
<p>Object V1:+3.3V80A</p>																																									
<p>1. Graph</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>149</td><td>149</td></tr> <tr><td>-10</td><td>149</td><td>149</td></tr> <tr><td>0</td><td>149</td><td>148</td></tr> <tr><td>10</td><td>149</td><td>149</td></tr> <tr><td>20</td><td>149</td><td>149</td></tr> <tr><td>25</td><td>149</td><td>149</td></tr> <tr><td>30</td><td>149</td><td>149</td></tr> <tr><td>40</td><td>149</td><td>149</td></tr> <tr><td>50</td><td>148</td><td>148</td></tr> <tr><td>60</td><td>148</td><td>148</td></tr> <tr><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	149	149	-10	149	149	0	149	148	10	149	149	20	149	149	25	149	149	30	149	149	40	149	149	50	148	148	60	148	148	--	--	--
Ambient Temperature [°C]	Input Voltage [V]																																								
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-20	149	149																																							
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40	149	149																																							
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<p>Object V2:+5V80A</p>																																									
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<p>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。</p>																																									



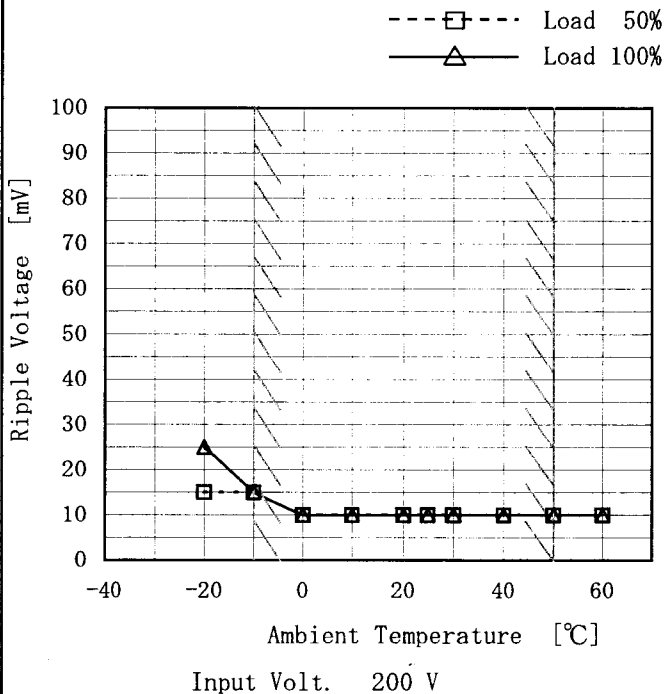
COSEL																																									
Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase																																						
Item	Minimum Input Voltage for Regulated Output Voltage 最低レギュレーション電圧	Testing Circuitry	Figure A																																						
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<p>1. Graph</p> <p style="text-align: right;"> ---□--- Load 50% —△— Load 100% </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>149</td><td>149</td></tr> <tr><td>-10</td><td>149</td><td>149</td></tr> <tr><td>0</td><td>149</td><td>148</td></tr> <tr><td>10</td><td>149</td><td>149</td></tr> <tr><td>20</td><td>149</td><td>149</td></tr> <tr><td>25</td><td>149</td><td>149</td></tr> <tr><td>30</td><td>149</td><td>149</td></tr> <tr><td>40</td><td>149</td><td>149</td></tr> <tr><td>50</td><td>148</td><td>148</td></tr> <tr><td>60</td><td>148</td><td>148</td></tr> <tr><td>--</td><td>--</td><td>--</td></tr> </tbody> </table>		Ambient Temperature [°C]	Input Voltage [V]		Load 50%	Load 100%	-20	149	149	-10	149	149	0	149	148	10	149	149	20	149	149	25	149	149	30	149	149	40	149	149	50	148	148	60	148	148	--	--	--
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50	148	148																																							
60	148	148																																							
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Object	V4:+12V34A																																								
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<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>																																									



Model	MIT-EDCB-00 (MAX1600T)
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	V1:+3.3V80A

Input Testing Circuitry	AC 3-phase Figure A
-------------------------	------------------------

1. Graph

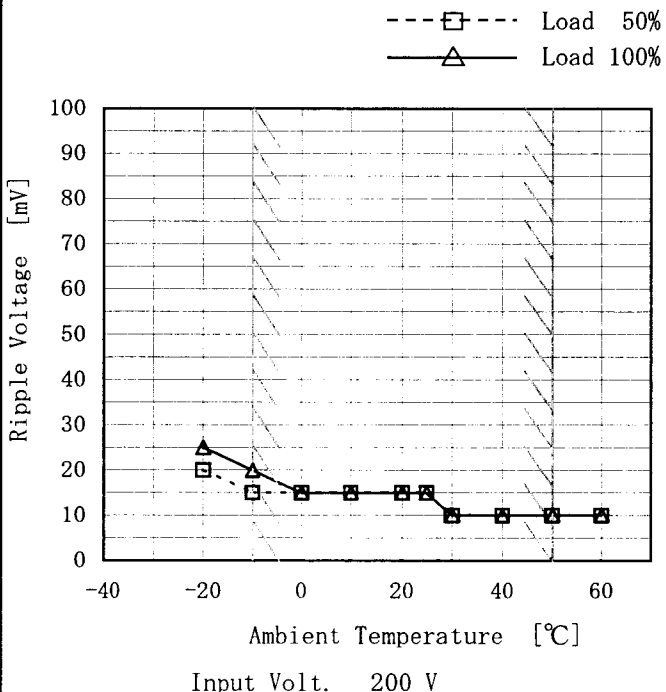


2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	15	25
-10	15	15
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:+5V80A
--------	-----------

1. Graph



2. Values

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

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

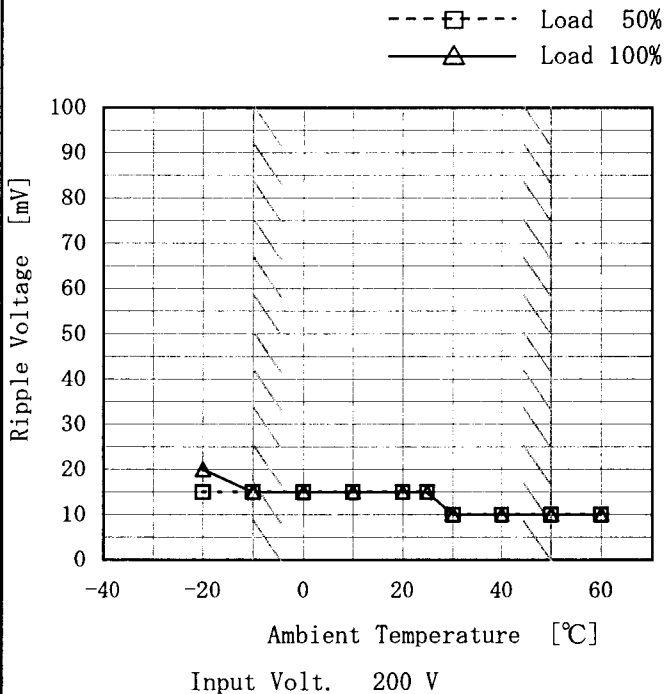
(注) 斜線は定格周囲温度範囲を示す。



Model	M1T-EDCB-00 (MAX1600T)
Item	Ripple Voltage (by Ambient Temp.) リップル電圧 (周囲温度特性)
Object	V3:+7.5V54A

Input AC 3-phase
Testing Circuitry Figure A

1. Graph

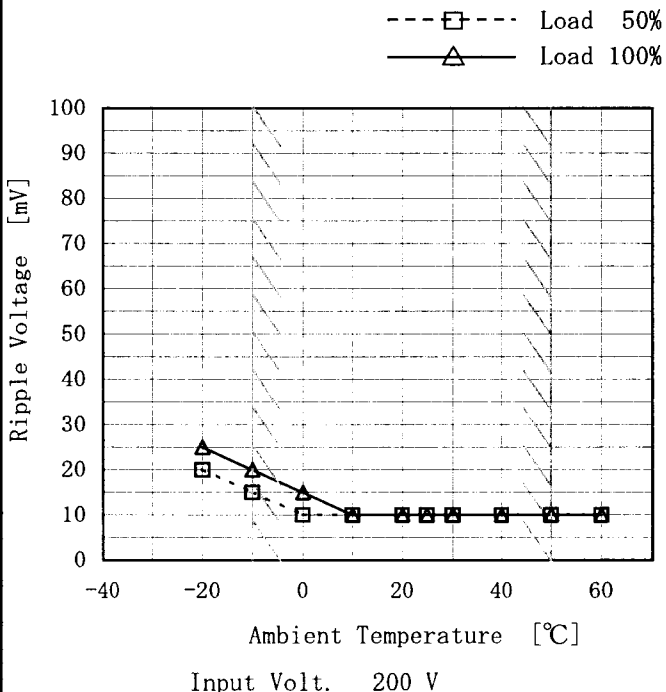


2. Values

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

Object	V4:+12V34A
--------	------------

1. Graph



2. Values

Ambient Temperature [°C]	Ripple Voltage [mV]	
	Load 50%	Load 100%
-20	20	25
-10	15	20
0	10	15
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。



COSEL																								
Model	MIT-EDCB-00 (MAX1600T)	Input AC 3-phase																						
Item	Time Lapse Drift 経時ドリフト	Temperature 25°C																						
Object	V1:+3.3V80A	Testing Circuitry Figure A																						
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p style="text-align: center;">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>3.325</td></tr> <tr><td>0.5</td><td>3.324</td></tr> <tr><td>1.0</td><td>3.324</td></tr> <tr><td>2.0</td><td>3.324</td></tr> <tr><td>3.0</td><td>3.324</td></tr> <tr><td>4.0</td><td>3.324</td></tr> <tr><td>5.0</td><td>3.324</td></tr> <tr><td>6.0</td><td>3.324</td></tr> <tr><td>7.0</td><td>3.324</td></tr> <tr><td>8.0</td><td>3.324</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	3.325	0.5	3.324	1.0	3.324	2.0	3.324	3.0	3.324	4.0	3.324	5.0	3.324	6.0	3.324	7.0	3.324	8.0	3.324
Time since start [H]	Output Voltage [V]																							
0.0	3.325																							
0.5	3.324																							
1.0	3.324																							
2.0	3.324																							
3.0	3.324																							
4.0	3.324																							
5.0	3.324																							
6.0	3.324																							
7.0	3.324																							
8.0	3.324																							
Object	V2:+5V80A																							
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p style="text-align: center;">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>5.043</td></tr> <tr><td>0.5</td><td>5.044</td></tr> <tr><td>1.0</td><td>5.044</td></tr> <tr><td>2.0</td><td>5.044</td></tr> <tr><td>3.0</td><td>5.044</td></tr> <tr><td>4.0</td><td>5.044</td></tr> <tr><td>5.0</td><td>5.044</td></tr> <tr><td>6.0</td><td>5.044</td></tr> <tr><td>7.0</td><td>5.044</td></tr> <tr><td>8.0</td><td>5.044</td></tr> </tbody> </table>	Time since start [H]	Output Voltage [V]	0.0	5.043	0.5	5.044	1.0	5.044	2.0	5.044	3.0	5.044	4.0	5.044	5.0	5.044	6.0	5.044	7.0	5.044	8.0	5.044
Time since start [H]	Output Voltage [V]																							
0.0	5.043																							
0.5	5.044																							
1.0	5.044																							
2.0	5.044																							
3.0	5.044																							
4.0	5.044																							
5.0	5.044																							
6.0	5.044																							
7.0	5.044																							
8.0	5.044																							



COSEL																									
Model	MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase																						
Item	Time Lapse Drift 経時ドリフト	Temperature	25°C																						
Object	V3:+7.5V54A	Testing Circuitry	Figure A																						
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p style="text-align: center;">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>7.645</td></tr> <tr><td>0.5</td><td>7.651</td></tr> <tr><td>1.0</td><td>7.651</td></tr> <tr><td>2.0</td><td>7.651</td></tr> <tr><td>3.0</td><td>7.651</td></tr> <tr><td>4.0</td><td>7.651</td></tr> <tr><td>5.0</td><td>7.651</td></tr> <tr><td>6.0</td><td>7.651</td></tr> <tr><td>7.0</td><td>7.651</td></tr> <tr><td>8.0</td><td>7.651</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	7.645	0.5	7.651	1.0	7.651	2.0	7.651	3.0	7.651	4.0	7.651	5.0	7.651	6.0	7.651	7.0	7.651	8.0	7.651
Time since start [H]	Output Voltage [V]																								
0.0	7.645																								
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Object	V4:+12V34A																								
<p>1. Graph</p> <p style="text-align: center;">Time [H]</p> <p style="text-align: center;">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>12.318</td></tr> <tr><td>0.5</td><td>12.309</td></tr> <tr><td>1.0</td><td>12.309</td></tr> <tr><td>2.0</td><td>12.309</td></tr> <tr><td>3.0</td><td>12.309</td></tr> <tr><td>4.0</td><td>12.309</td></tr> <tr><td>5.0</td><td>12.309</td></tr> <tr><td>6.0</td><td>12.309</td></tr> <tr><td>7.0</td><td>12.309</td></tr> <tr><td>8.0</td><td>12.309</td></tr> </tbody> </table>		Time since start [H]	Output Voltage [V]	0.0	12.318	0.5	12.309	1.0	12.309	2.0	12.309	3.0	12.309	4.0	12.309	5.0	12.309	6.0	12.309	7.0	12.309	8.0	12.309
Time since start [H]	Output Voltage [V]																								
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7.0	12.309																								
8.0	12.309																								



Model		MIT-EDCB-00 (MAX1600T)		Input Testing Circuitry	AC 3-phase Figure A
Item	Output Voltage Accuracy 定電圧精度				

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 : 170 ~ 264V

Load Current (V1) : 0 ~ 80A (V2) : 0~80A (V3) : 0~54A (V4) : 0~34A

* 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 : 170 ~ 264V

負荷電流 (V1) : 0 ~ 80A (V2) : 0~80A (V3) : 0~54A (V4) : 0~34A

* 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

Object	V1:+3.3V80A					
Item	Temperature [°C]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	50	264	0	3.352	±15	±0.5
Minimum Voltage	25	170	80	3.322		

Object	V2:+5V80A					
Item	Temperature [°C]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	50	264	0	5.070	±20	±0.4
Minimum Voltage	-10	170	80	5.030		

Object	V3:+7.5V54A					
Item	Temperature [°C]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	50	264	0	7.672	±20	±0.3
Minimum Voltage	-10	264	54	7.632		

Object	V4:+12V34A					
Item	Temperature [°C]	Input Voltage [V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	-10	170	0	12.303	±52	±0.4
Minimum Voltage	25	170	0	12.200		



COSEL														
Model	MIT-EDCB-00 (MAX1600T)	Input AC 3-phase Testing Circuitry Figure A												
Item	Condense 結露特性													
<p>1. Condensation test</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>1. 結露特性試験</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> <p>2. Values</p>														
Object	V1:+3.3V80A													
<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>3.348</td> <td>Input Volt. :200V, Load Current. :80A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td>2</td> <td>Input Volt. :170~264V, Load Current. :80A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td>21</td> <td>Input Volt. :200V, Load Current. :0~80A</td> </tr> </tbody> </table>			Item	Data	Testing Conditions	Output Voltage [V]	3.348	Input Volt. :200V, Load Current. :80A	Line Regulation [mV]	2	Input Volt. :170~264V, Load Current. :80A	Load Regulation [mV]	21	Input Volt. :200V, Load Current. :0~80A
Item	Data	Testing Conditions												
Output Voltage [V]	3.348	Input Volt. :200V, Load Current. :80A												
Line Regulation [mV]	2	Input Volt. :170~264V, Load Current. :80A												
Load Regulation [mV]	21	Input Volt. :200V, Load Current. :0~80A												
Object	V2:+5V80A													
<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>5.04</td> <td>Input Volt. :200V, Load Current. :80A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td>1</td> <td>Input Volt. :170~264V, Load Current. :80A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td>19</td> <td>Input Volt. :200V, Load Current. :0~80A</td> </tr> </tbody> </table>			Item	Data	Testing Conditions	Output Voltage [V]	5.04	Input Volt. :200V, Load Current. :80A	Line Regulation [mV]	1	Input Volt. :170~264V, Load Current. :80A	Load Regulation [mV]	19	Input Volt. :200V, Load Current. :0~80A
Item	Data	Testing Conditions												
Output Voltage [V]	5.04	Input Volt. :200V, Load Current. :80A												
Line Regulation [mV]	1	Input Volt. :170~264V, Load Current. :80A												
Load Regulation [mV]	19	Input Volt. :200V, Load Current. :0~80A												
Object	V3:+7.5V54A													
<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>7.548</td> <td>Input Volt. :200V, Load Current. :54A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td>3</td> <td>Input Volt. :170~264V, Load Current. :54A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td>12</td> <td>Input Volt. :200V, Load Current. :0~54A</td> </tr> </tbody> </table>			Item	Data	Testing Conditions	Output Voltage [V]	7.548	Input Volt. :200V, Load Current. :54A	Line Regulation [mV]	3	Input Volt. :170~264V, Load Current. :54A	Load Regulation [mV]	12	Input Volt. :200V, Load Current. :0~54A
Item	Data	Testing Conditions												
Output Voltage [V]	7.548	Input Volt. :200V, Load Current. :54A												
Line Regulation [mV]	3	Input Volt. :170~264V, Load Current. :54A												
Load Regulation [mV]	12	Input Volt. :200V, Load Current. :0~54A												
Object	V4:+12V34A													
<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>12.171</td> <td>Input Volt. :200V, Load Current. :34A</td> </tr> <tr> <td>Line Regulation [mV]</td> <td>1</td> <td>Input Volt. :170~264V, Load Current. :34A</td> </tr> <tr> <td>Load Regulation [mV]</td> <td>1</td> <td>Input Volt. :200V, Load Current. :0~34A</td> </tr> </tbody> </table>			Item	Data	Testing Conditions	Output Voltage [V]	12.171	Input Volt. :200V, Load Current. :34A	Line Regulation [mV]	1	Input Volt. :170~264V, Load Current. :34A	Load Regulation [mV]	1	Input Volt. :200V, Load Current. :0~34A
Item	Data	Testing Conditions												
Output Voltage [V]	12.171	Input Volt. :200V, Load Current. :34A												
Line Regulation [mV]	1	Input Volt. :170~264V, Load Current. :34A												
Load Regulation [mV]	1	Input Volt. :200V, Load Current. :0~34A												



COSEL			
Model	M1T-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item	Leakage Current 漏洩電流	Temperature	25°C
Object	_____	Testing Circuitry	Figure B

1. Results

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

Standards	Leakage Current [mA]		
	Input Volt. 170 [V]	Input Volt. 230 [V]	Input Volt. 264 [V]
(B) IEC60950	0.61	0.89	0.95

2. Condition

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

交流入力各相について測定し、その大きい方を漏洩電流測定値とする。



Model		MIT-EDCB-00 (MAX1600T)		Input	AC 3-phase	
Item		Line Noise Tolerance 入力雑音耐量		Temperature	25°C	
				Testing Circuitry	Figure C	
<p>1. Conditions</p> <ul style="list-style-type: none"> • Input Voltage : 200 V • Pulse Voltage : 2000 V • Pulse Cycle : 10 mS • Pulse Input Duration : 1 min. or more • Load : 100 % <p>2. Results</p>						
Object		V1:+3.3V80A				
Pulse Width [nS]	MODE		Malfunction of protective circuits	Fluctuation of output voltage		
	POLARITY					
	50	COMMON	+ / -	OK	OK	
		NORMAL	+ / -	OK	OK	
1000	COMMON	+ / -	OK	OK		
	NORMAL	+ / -	OK	OK		
Object		V2:+5V80A				
Pulse Width [nS]	MODE		Malfunction of protective circuits	Fluctuation of output voltage		
	POLARITY					
	50	COMMON	+ / -	OK	OK	
		NORMAL	+ / -	OK	OK	
1000	COMMON	+ / -	OK	OK		
	NORMAL	+ / -	OK	OK		
Object		V3:+7.5V54A				
Pulse Width [nS]	MODE		Malfunction of protective circuits	Fluctuation of output voltage		
	POLARITY					
	50	COMMON	+ / -	OK	OK	
		NORMAL	+ / -	OK	OK	
1000	COMMON	+ / -	OK	OK		
	NORMAL	+ / -	OK	OK		
Object		V4:+12V34A				
Pulse Width [nS]	MODE		Malfunction of protective circuits	Fluctuation of output voltage		
	POLARITY					
	50	COMMON	+ / -	OK	OK	
		NORMAL	+ / -	OK	OK	
1000	COMMON	+ / -	OK	OK		
	NORMAL	+ / -	OK	OK		



Model		MIT-EDCB-00 (MAX1600T)	Input	AC 3-phase
Item		Conducted Emission 雑音端子電圧	Temperature	25°C
Object			Testing Circuitry	Figure D

1. Graph

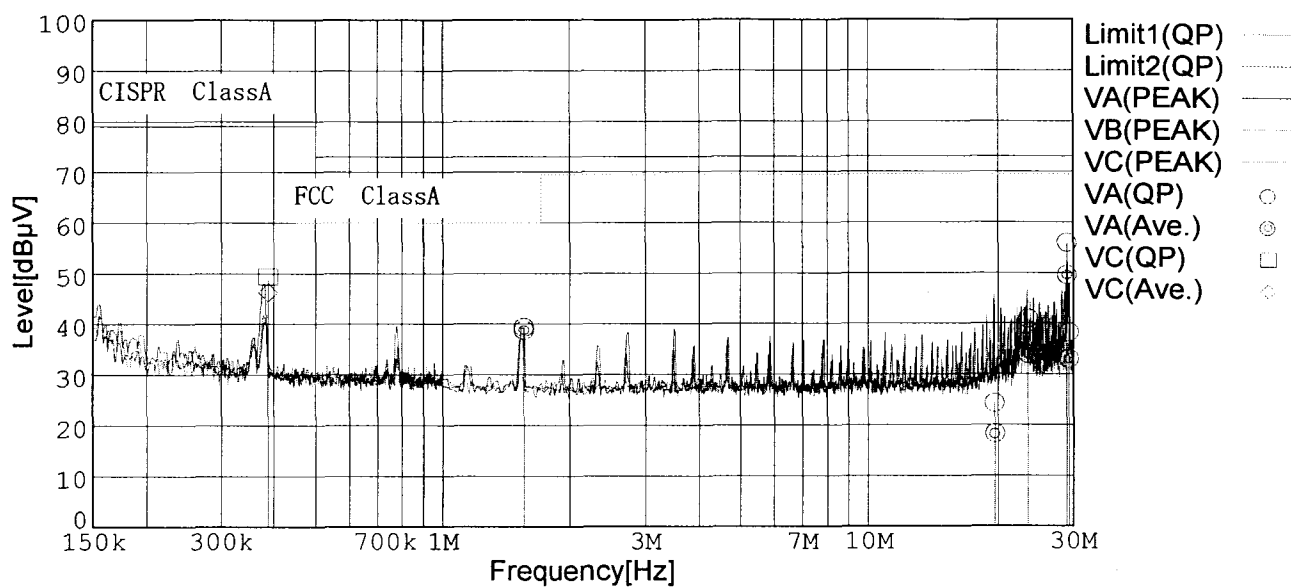
Remarks

Input Volt. 230V

Laod 100%

Limit1: [CISPR Pub22] Class A(QP)

Limit2: [FCC Part15] Class A



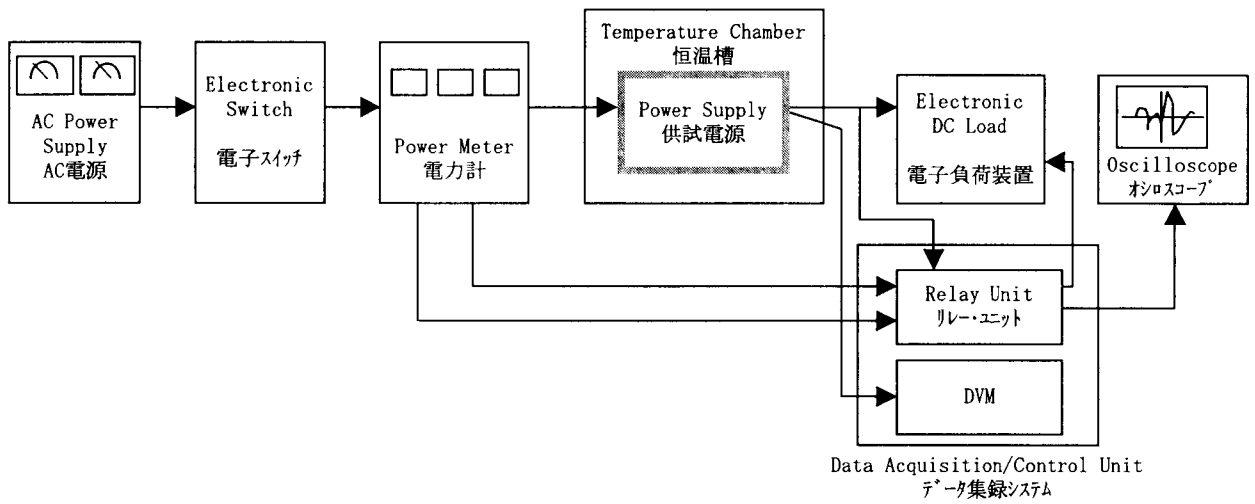


Figure A

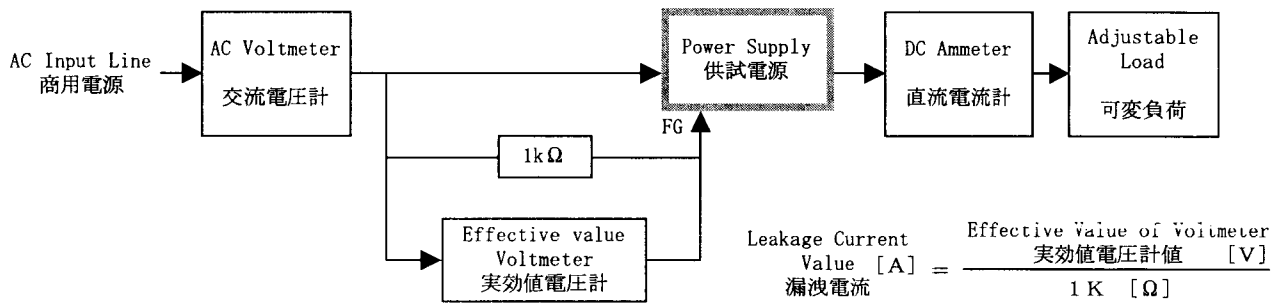


Figure B (DEN-AN)

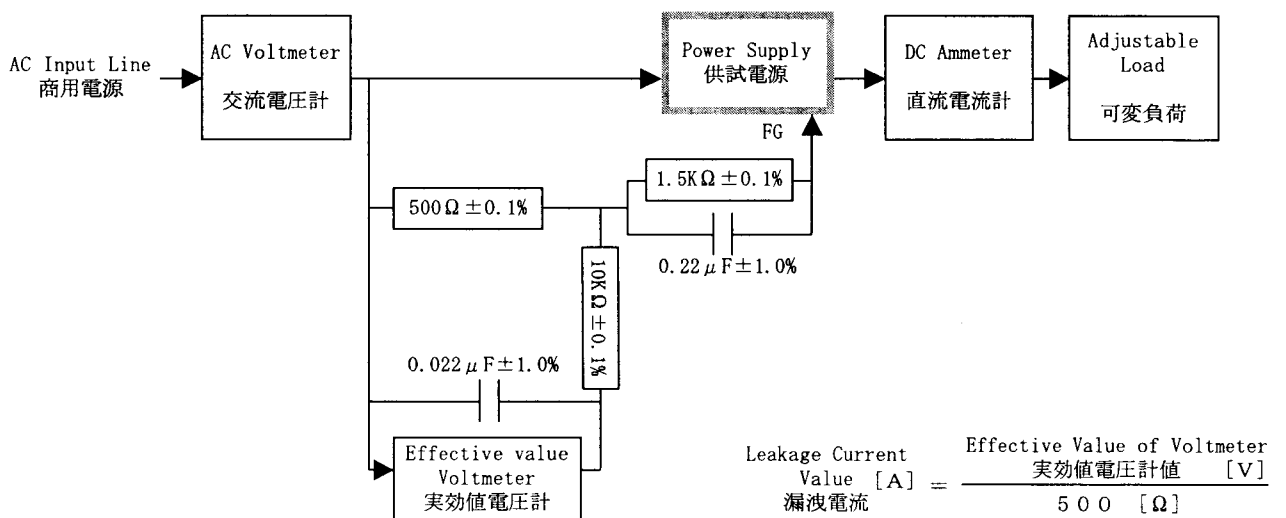


Figure B (IEC60950)

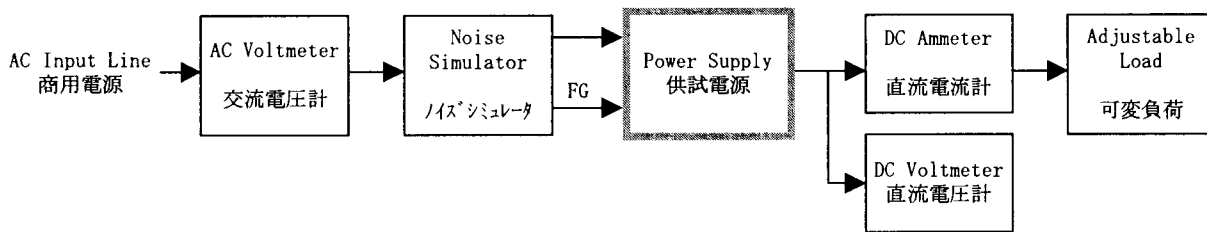


Figure C

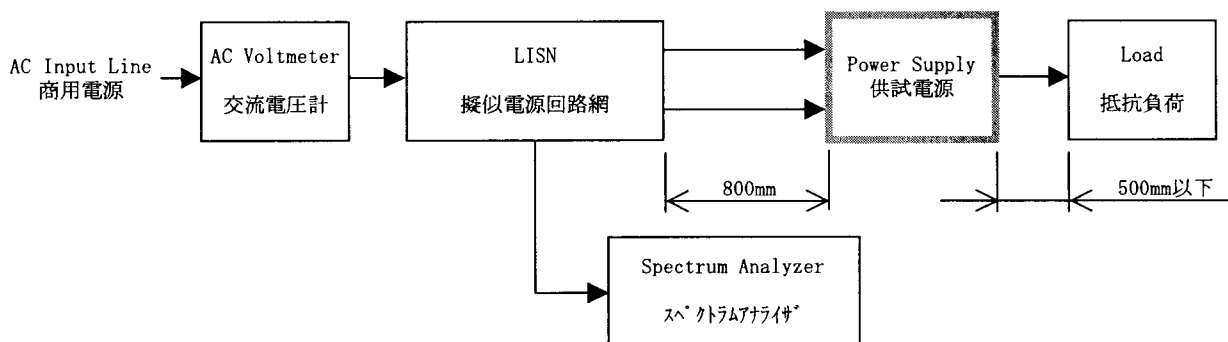


Figure D

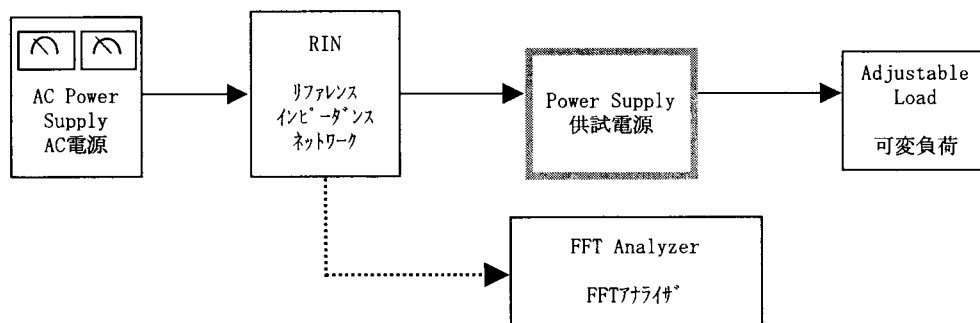


Figure E