

TEST DATA OF LEA150F-48

Regulated DC Power Supply
Jan 5, 2006

Approved by : Jun Uchida
J.Uchida Design Manager

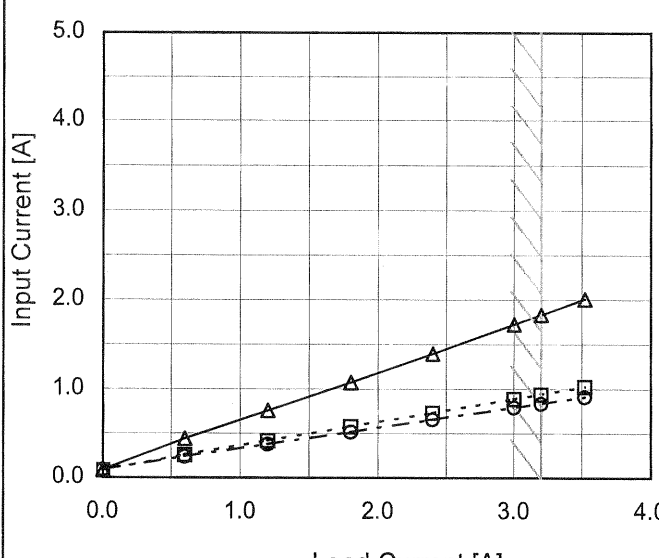
Prepared by : A. Kawai
A.Kawai Design Engineer

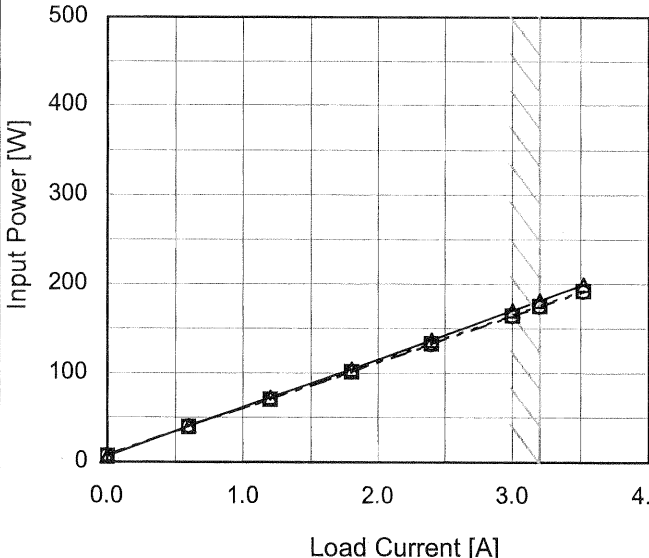
COSEL CO.,LTD.

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Model	LEA150F-48																																	
Item	Efficiency (by Input Voltage)	Temperature 25°C Testing Circuitry Figure A																																
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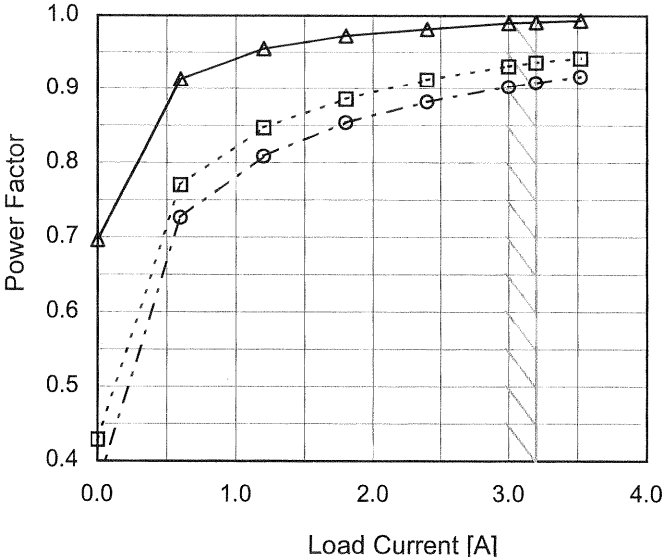
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Model		LEA150F-48		Temperature		25°C	
Item		Power Factor (by Input Voltage)		Testing Circuitry		Figure A	
Object							
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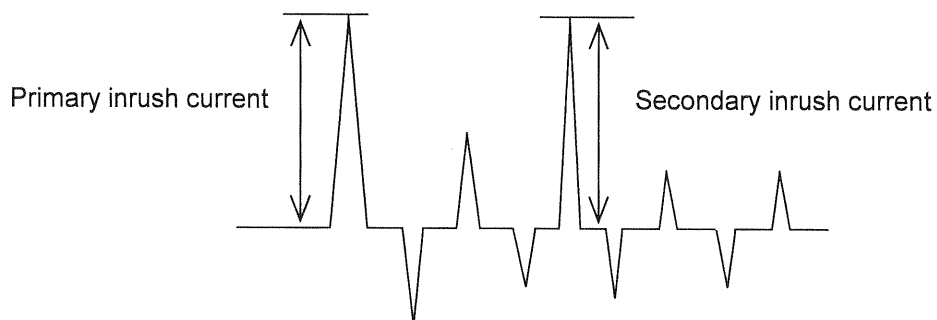
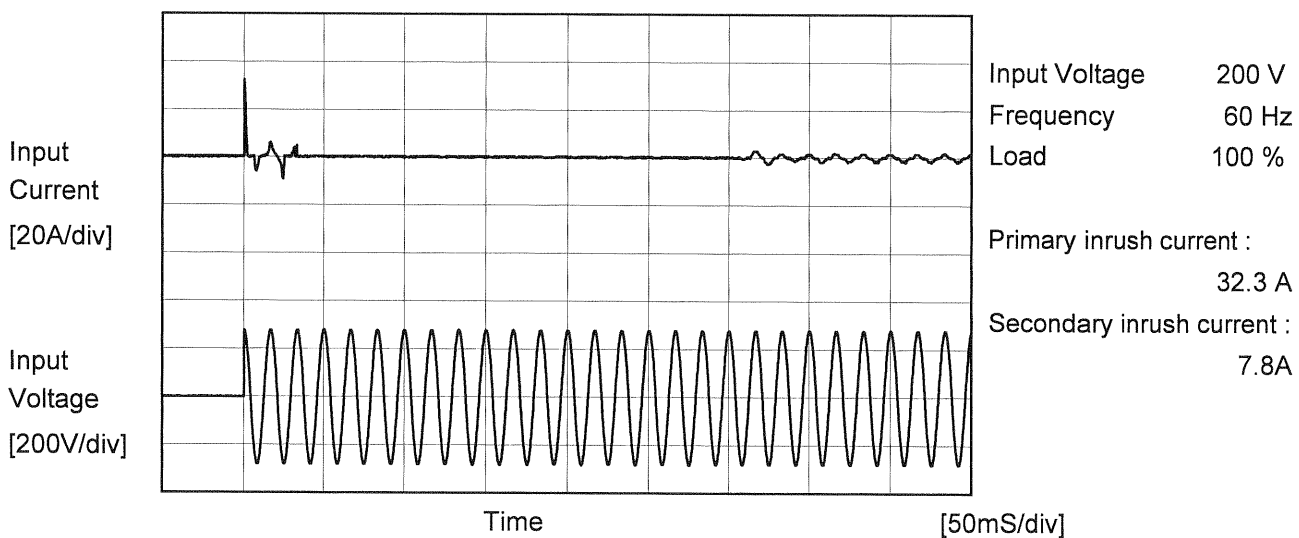
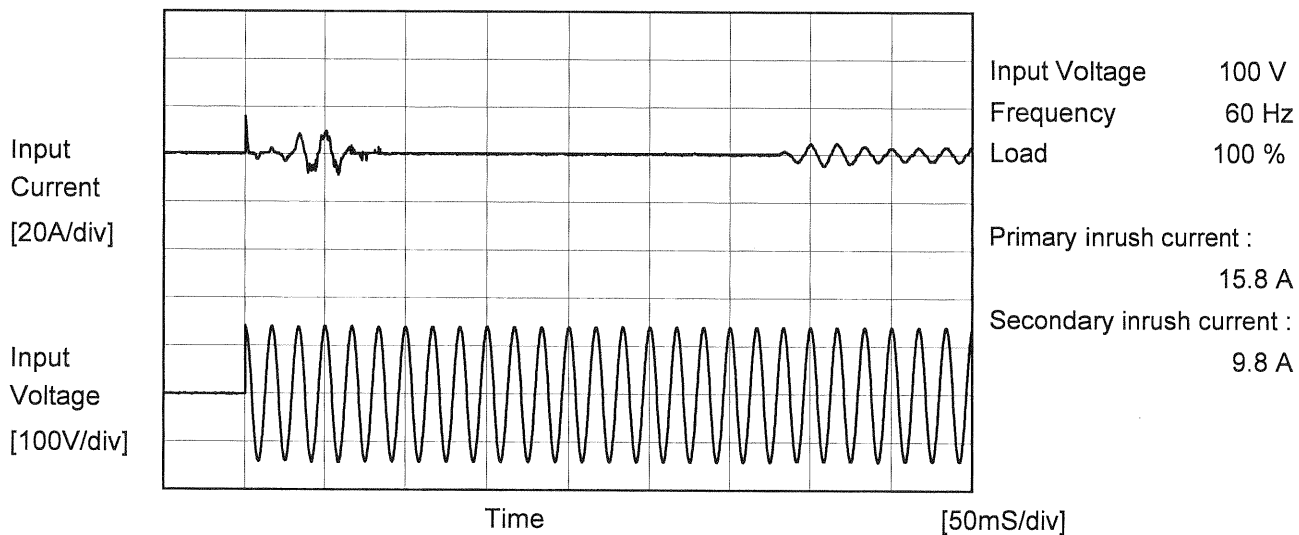
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Model	LEA150F-48		
Item	Inrush Current	Temperature	25°C
		Testing Circuitry	Figure A
Object			





		Temperature 25°C Testing Circuitry Figure B
Model	LEA150F-48	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

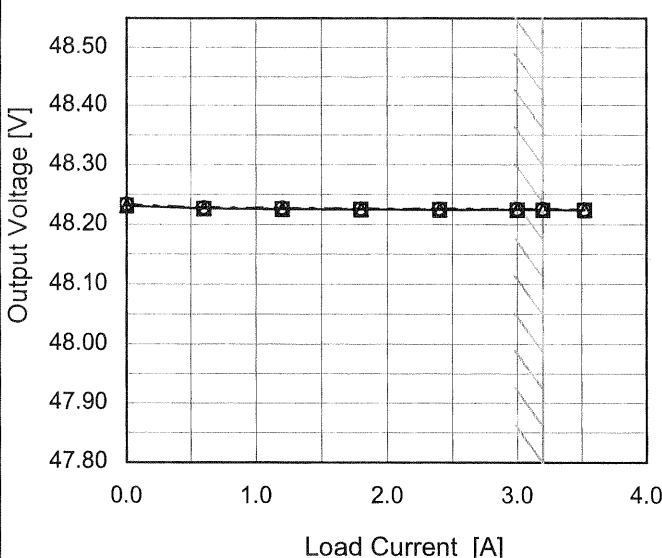
Standards		Input Volt.			Note
		100 [V]	200 [V]	230 [V]	
DEN-AN	Both phases	0.11	0.25	0.28	Operation
	One of phase	0.17	0.36	0.42	stand by
IEC60950	Both phases	0.11	0.25	0.28	Operation
	One of phase	0.17	0.36	0.42	stand by

The value for "One phase" is the reference value only.

2.Condition

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

Model	LEA150F-48																																
Item	Line Regulation	Temperature	25°C																														
		Testing Circuitry	Figure A																														
Object	+48V3.2A																																
1.Graph		2.Values																															
<div><div>---□---</div><div>Load 50%</div></div> <div><div>—△—</div><div>Load 100%</div></div> <table><thead><tr><th>Input Voltage [V]</th><th>Output Voltage [V] Load 50%</th><th>Output Voltage [V] Load 100%</th></tr></thead><tbody><tr><td>85</td><td>48.224</td><td>48.222</td></tr><tr><td>100</td><td>48.225</td><td>48.223</td></tr><tr><td>120</td><td>48.225</td><td>48.223</td></tr><tr><td>200</td><td>48.224</td><td>48.222</td></tr><tr><td>230</td><td>48.225</td><td>48.223</td></tr><tr><td>264</td><td>48.225</td><td>48.224</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> <p>Note: Slanted line shows the range of the rated input voltage.</p>		Input Voltage [V]	Output Voltage [V] Load 50%	Output Voltage [V] Load 100%	85	48.224	48.222	100	48.225	48.223	120	48.225	48.223	200	48.224	48.222	230	48.225	48.223	264	48.225	48.224	--	-	-	--	-	-	--	-	-		
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Model	LEA150F-48																																																					
Item	Load Regulation	Temperature	25°C																																																			
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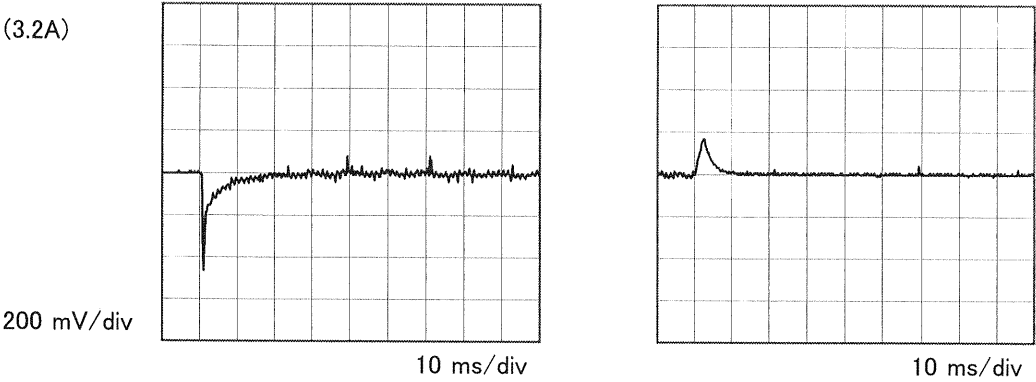


Model	LEA150F-48		
Item	Dynamic Load Response	Temperature	25°C
Object	+48V3.2A	Testing Circuitry	Figure A

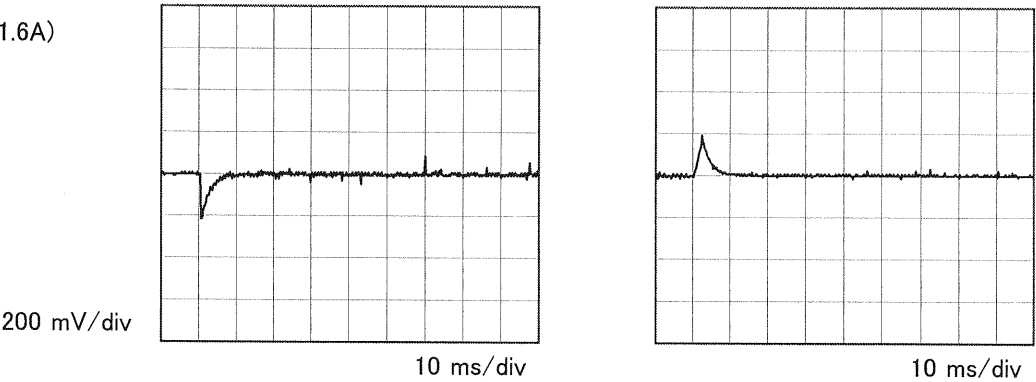
Input Volt. 100 V
Cycle 1000 ms



Min. Load (0A) ←→
Load 100% (3.2A)



Min. Load (0A) ←→
Load 50% (1.6A)



Model	LEA150F-48																																																																												
Item	Ripple Voltage (by Load Current)	Temperature	25°C																																																																										
Object	+48V3.2A	Testing Circuitry	Figure A																																																																										
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Model	LEA150F-48																																																																												
Item	Ripple-Noise	Temperature	25°C																																																																										
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Model	LEA150F-48																																						
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Model		LEA150F-48																																																				
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Model		LEA150F-48	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+48V3.2A	

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 - 40°C

Input Voltage : 85 - 264V

Load Current : 0 - 3.2A

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

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

2. Values

Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	30	264	0	48.260	±18	±0.1
Minimum Voltage	-10	200	3.2	48.224		

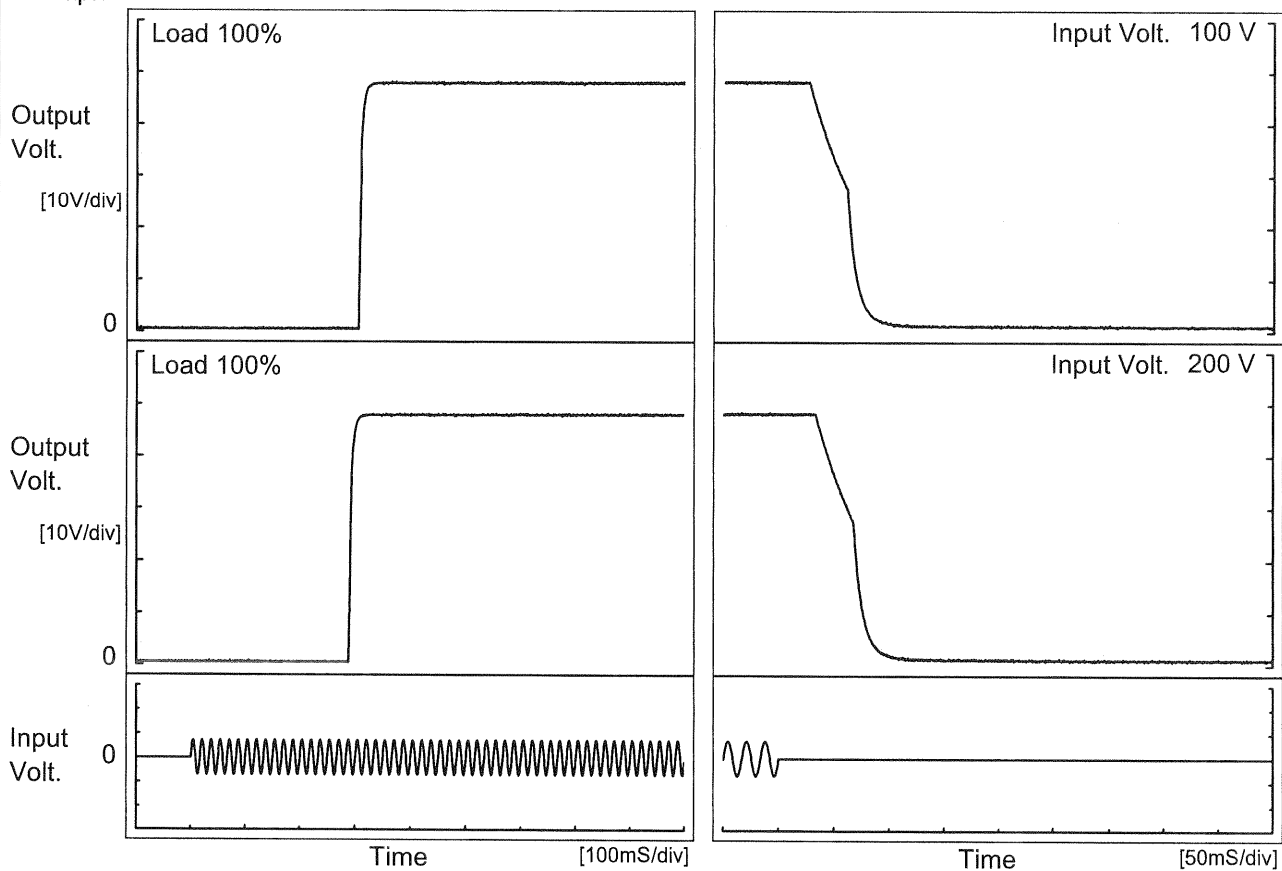
Model	LEA150F-48	Temperature25°C Testing CircuitryFigure A																							
Item	Time Lapse Drift																								
Object	+48V3.2A																								
1.Graph		2.Values																							
<div><div><div>48.50</div><div>48.40</div><div>48.30</div><div>48.20</div><div>48.10</div><div>48.00</div><div>47.90</div><div>47.80</div></div><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div><div>Output Voltage [V]</div><div>Time [H]</div></div><div><div>Input Volt.100V</div><div>Load100%</div></div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>48.229</td></tr><tr><td>0.5</td><td>48.239</td></tr><tr><td>1.0</td><td>48.239</td></tr><tr><td>2.0</td><td>48.241</td></tr><tr><td>3.0</td><td>48.241</td></tr><tr><td>4.0</td><td>48.242</td></tr><tr><td>5.0</td><td>48.243</td></tr><tr><td>6.0</td><td>48.243</td></tr><tr><td>7.0</td><td>48.243</td></tr><tr><td>8.0</td><td>48.244</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	48.229	0.5	48.239	1.0	48.239	2.0	48.241	3.0	48.241	4.0	48.242	5.0	48.243	6.0	48.243	7.0	48.243	8.0	48.244
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* The characteristic of AC200V is equal.																									

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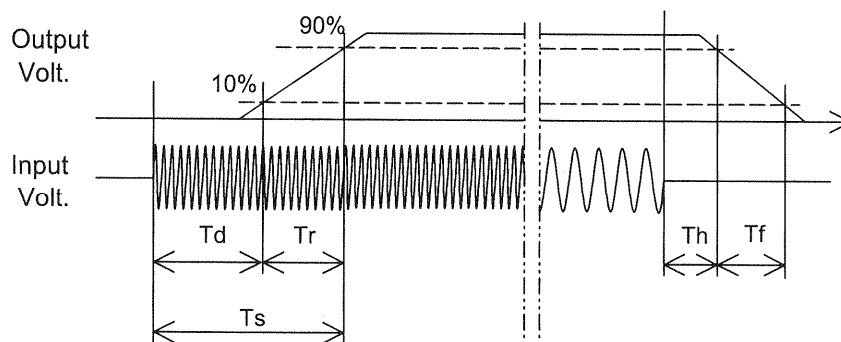
Model	LEA150F-48	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+48V3.2A		

1.Graph



2.Values

Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		306.0	9.5	315.5	33.0	44.0
200 V		289.0	9.5	298.5	39.3	44.0



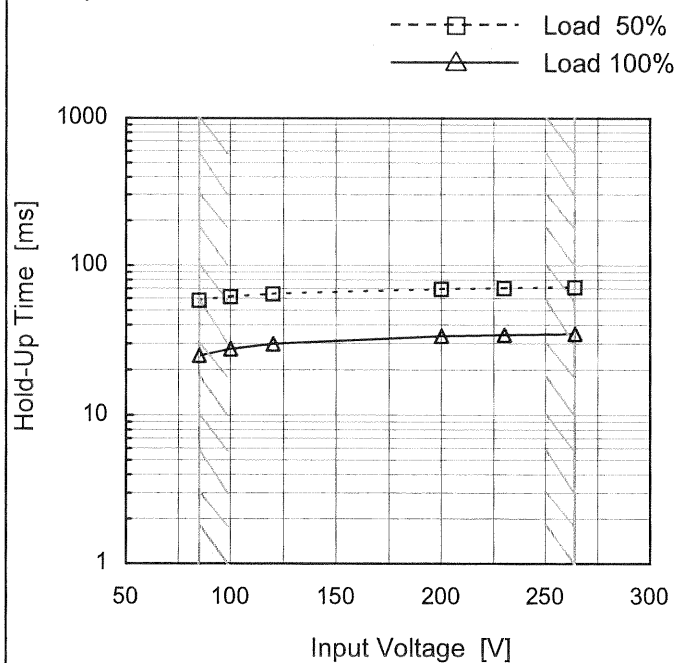
Model LEA150F-48

Item Hold-Up Time

Object +48V3.2A

Temperature 25°C
Testing Circuitry Figure A

1. Graph



This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.
Note: Slanted line shows the range of the rated input voltage.

2. Values

Input Voltage [V]	Hold-Up Time [ms]	
	Load 50%	Load 100%
85	58	25
100	61	28
120	64	30
200	69	34
230	70	34
264	71	35
--	-	-
--	-	-
--	-	-

Model	LEA150F-48																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+48V3.2A	Testing Circuitry	Figure A																																																			
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<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>-○-</div><div>Input Volt.</div><div>230V</div></div></div> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.60</td><td>138</td><td>164</td><td>170</td></tr><tr><td>1.20</td><td>64</td><td>88</td><td>89</td></tr><tr><td>1.80</td><td>38</td><td>61</td><td>63</td></tr><tr><td>2.40</td><td>30</td><td>45</td><td>46</td></tr><tr><td>3.00</td><td>30</td><td>35</td><td>37</td></tr><tr><td>3.20</td><td>26</td><td>35</td><td>36</td></tr><tr><td>3.52</td><td>20</td><td>24</td><td>30</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></table>		Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	-	-	-	0.60	138	164	170	1.20	64	88	89	1.80	38	61	63	2.40	30	45	46	3.00	30	35	37	3.20	26	35	36	3.52	20	24	30	--	-	-	-	--	-	-	-	--	-	-	-
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Model	LEA150F-48																																								
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