

TEST DATA OF FETA2500BA-48

Regulated DC Power Supply
October 26, 2016

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Model	FETA2500BA-48		
Item	Input Current (by Load Current)	Temperature	25°C
Object		Testing Circuitry	Figure A
<p>1.Graph</p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> △□○ </p> <p> </p>			



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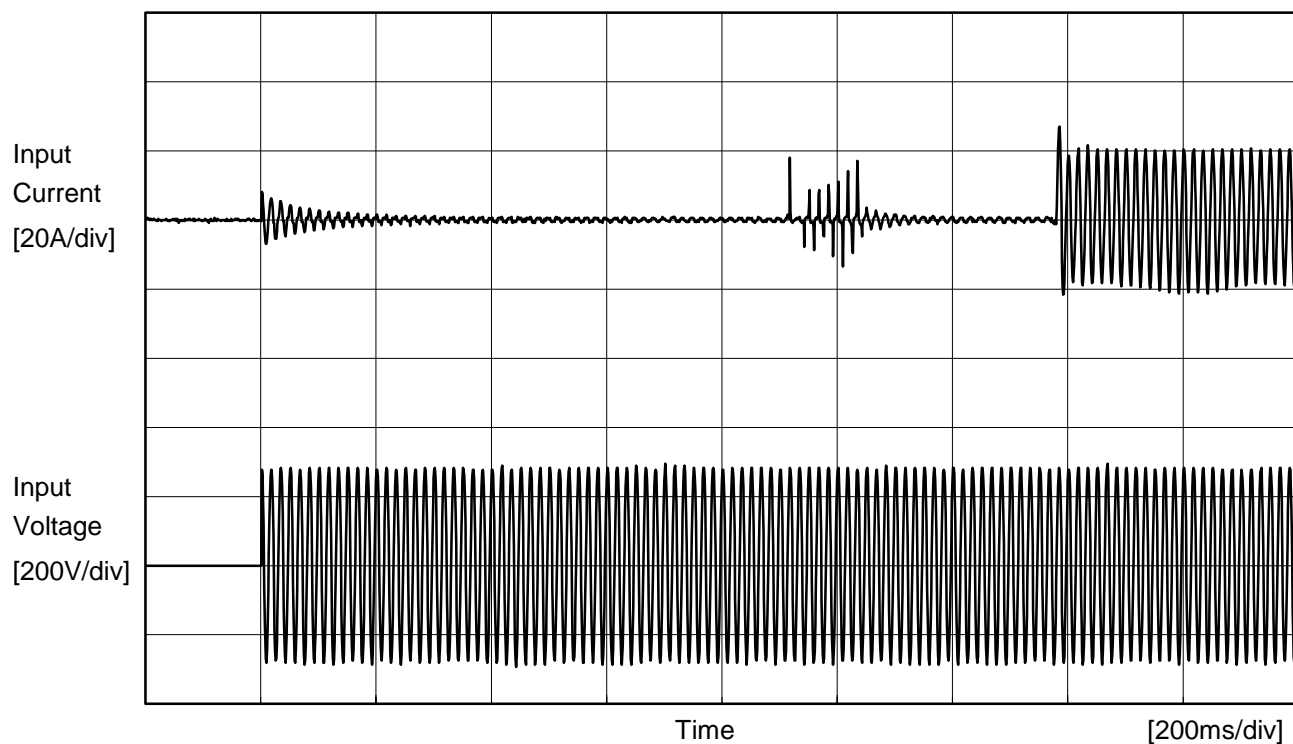
Model		FETA2500BA-48		Temperature 25°C																																																				
Item		Power Factor (by Load Current)		Testing Circuitry Figure A																																																				
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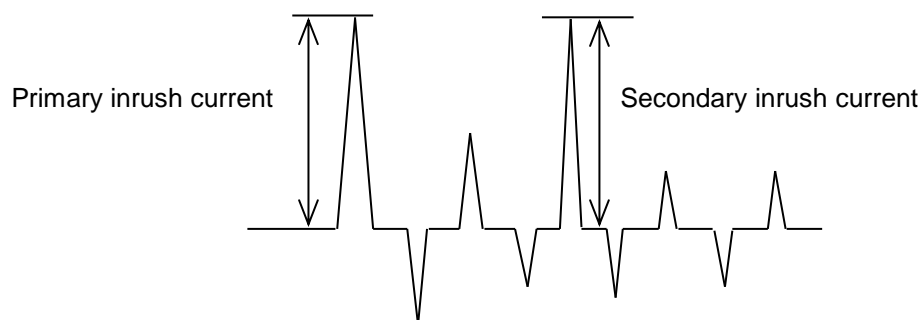
COSEL

Model	FETA2500BA-48	Temperature 25°C Testing Circuitry Figure A	
Item	Inrush Current		
Object	_____		



Input Voltage 200 V
Frequency 60 Hz
Load 100 %

Primary inrush current 8.1 A
Secondary inrush current 27.0 A





		Temperature 25°C Testing Circuitry Figure B
Model	FETA2500BA-48	
Item	Leakage Current	
Object	_____	

1.Results

[mA]

Standards		Input Volt.			Note
		200 [V]	240 [V]	264 [V]	
DEN-AN	Both phases	-	-	-	Operation
	One of phases	-	-	-	Stand by
IEC60950-1	Both phases	0.61	0.73	0.81	Operation
	One of phases	1.06	1.30	1.43	Stand by

The value for "One of phases" 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		FETA2500BA-48	Temperature		25°C																														
Item		Line Regulation	Testing Circuitry		Figure A																														
Object		+48V52A																																	
1.Graph			2.Values																																
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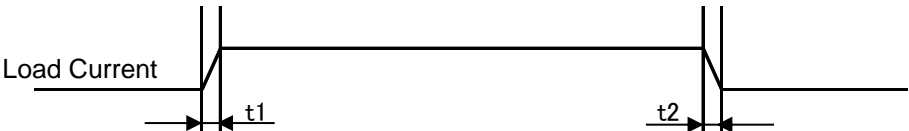
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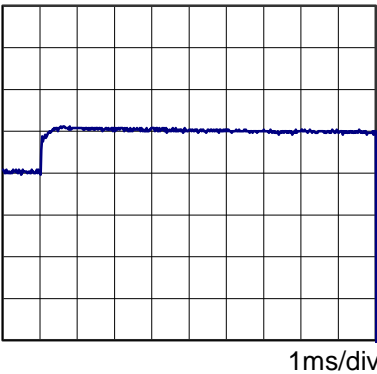
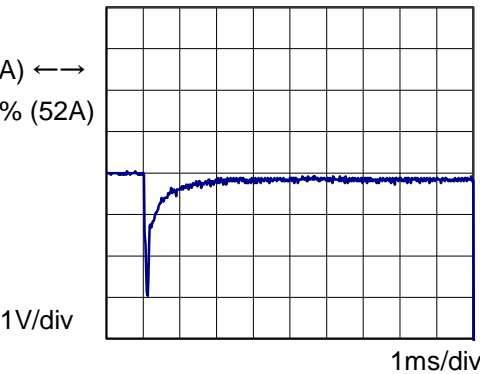
Model	FETA2500BA-48		
Item	Dynamic Load Response	Temperature	25°C
Object	+48V52A	Testing Circuitry	Figure A

Input Volt. 230 V
Cycle 1000 ms

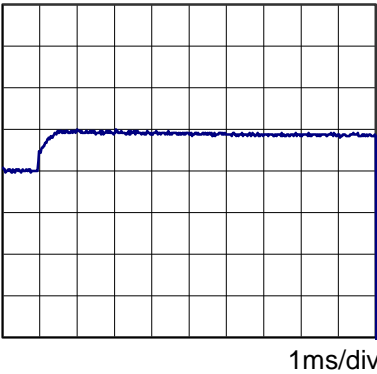
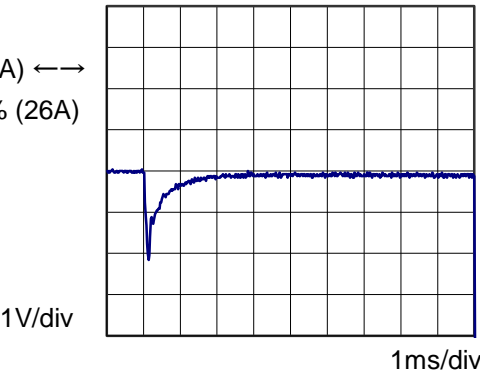
Response. t1=t2=50μs. Typ



Min. Load (0A) ↔
Load 100% (52A)



Min. Load (0A) ↔
Load 50% (26A)

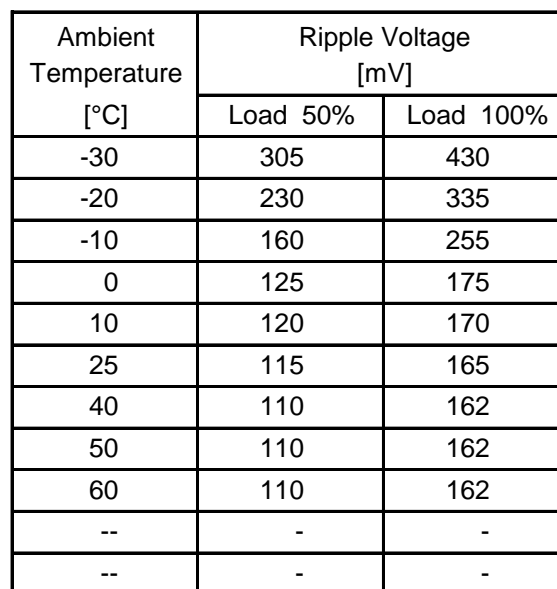


Model		FETA2500BA-48		Temperature 25°C																																							
Item		Ripple Voltage (by Load Current)		Testing Circuitry Figure C																																							
Object		+48V52A																																									
1.Graph				2.Values																																							
<div><div><div>—△— Input Volt. 200V</div><div>- -○- - Input Volt. 240V</div></div><div>Measured by 500 MHz Oscilloscope. Ripple Voltage is shown as p-p in the figure below. Note: Slanted line shows the range of the rated load current.</div></div>				<table><tr><th rowspan="2">Load Current [A]</th><th colspan="2">Ripple Voltage [mV]</th></tr><tr><th>Input Volt. 200 [V]</th><th>Input Volt. 240 [V]</th></tr><tr><td>0.0</td><td>45</td><td>50</td></tr><tr><td>8.0</td><td>75</td><td>75</td></tr><tr><td>16.0</td><td>85</td><td>90</td></tr><tr><td>24.0</td><td>105</td><td>105</td></tr><tr><td>32.0</td><td>130</td><td>130</td></tr><tr><td>40.0</td><td>140</td><td>140</td></tr><tr><td>48.0</td><td>155</td><td>155</td></tr><tr><td>52.0</td><td>165</td><td>165</td></tr><tr><td>57.2</td><td>175</td><td>180</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Load Current [A]	Ripple Voltage [mV]		Input Volt. 200 [V]	Input Volt. 240 [V]	0.0	45	50	8.0	75	75	16.0	85	90	24.0	105	105	32.0	130	130	40.0	140	140	48.0	155	155	52.0	165	165	57.2	175	180	--	-	-	--	-	-
Load Current [A]	Ripple Voltage [mV]																																										
	Input Volt. 200 [V]	Input Volt. 240 [V]																																									
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24.0	105	105																																									
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40.0	140	140																																									
48.0	155	155																																									
52.0	165	165																																									
57.2	175	180																																									
--	-	-																																									
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<div><div><div>T1: Due to AC Input Line</div><div>T2: Due to Switching</div></div><div>Fig. Complex Ripple Wave Form</div></div>																																											

Model		FETA2500BA-48		Temperature		25°C	
Item		Ripple-Noise		Testing Circuitry		Figure C	
Object		+48V52A					
1.Graph				2.Values			
<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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Testing Circuitry Figure C

2.Values



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

Model		FETA2500BA-48																																																				
Item		Ambient Temperature Drift																																																				
Object		+48V52A																																																				
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>---□---</div><div>-·-○-·-</div></div><div><div>Input Volt.</div><div>Input Volt.</div><div>Input Volt.</div></div><div><div>170V</div><div>200V</div><div>264V</div></div></div> <p>Output Voltage [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 100%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>-30</td><td>47.976</td><td>47.997</td><td>47.998</td></tr><tr><td>-20</td><td>48.004</td><td>48.014</td><td>48.019</td></tr><tr><td>-10</td><td>48.055</td><td>48.062</td><td>48.073</td></tr><tr><td>0</td><td>48.102</td><td>48.107</td><td>48.113</td></tr><tr><td>10</td><td>48.120</td><td>48.148</td><td>48.154</td></tr><tr><td>25</td><td>48.182</td><td>48.186</td><td>48.191</td></tr><tr><td>40</td><td>48.202</td><td>48.208</td><td>48.215</td></tr><tr><td>50</td><td>48.231</td><td>48.221</td><td>48.230</td></tr><tr><td>60</td><td>48.218</td><td>48.228</td><td>48.224</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Output Voltage [V]			Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	-30	47.976	47.997	47.998	-20	48.004	48.014	48.019	-10	48.055	48.062	48.073	0	48.102	48.107	48.113	10	48.120	48.148	48.154	25	48.182	48.186	48.191	40	48.202	48.208	48.215	50	48.231	48.221	48.230	60	48.218	48.228	48.224	--	-	-	-	--	-	-	-
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Model		FETA2500BA-48	Testing Circuitry Figure A
Item		Output Voltage Accuracy	
Object		+48V52A	

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 : 0 - 52A

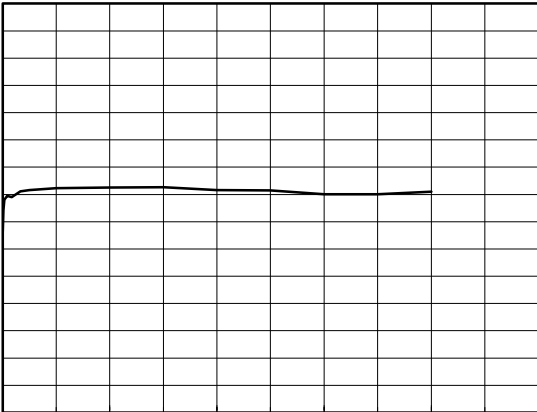
* Output Voltage Accuracy = $\pm(\text{Maximum of Output Voltage} - \text{Minimum of Output Voltage}) / 2$

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

2. Values

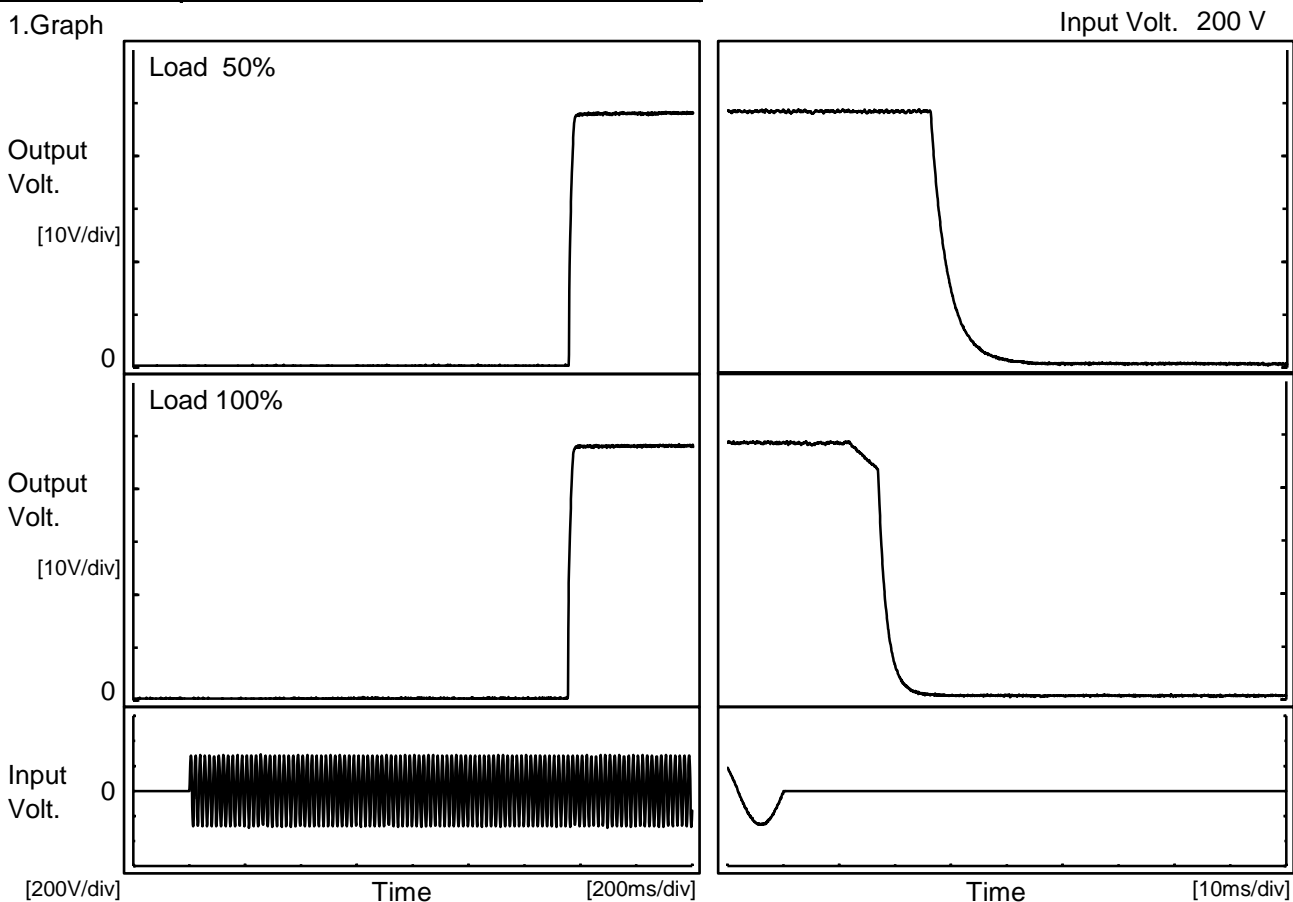
Item	Temperature [°C]	Input Voltage[V]	Output		Output Voltage Accuracy	
			Current[A]	Voltage[V]	Value [mV]	Ration [%]
Maximum Voltage	50	170	0	48.297	±121	±0.3
Minimum Voltage	-10	170	52	48.055		



LUCEL																									
Model	FETA2500BA-48	Temperature 25°C Testing Circuitry Figure A																							
Item	Time Lapse Drift																								
Object	+48V52A																								
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><div><div>0</div><div>2</div><div>4</div><div>6</div><div>8</div><div>10</div></div><div>Time [H]</div></div> <div><div>Input Volt.</div><div>200V</div></div> <div><div>Load</div><div>100%</div></div>		<table><tr><th>Time since start [H]</th><th>Output Voltage [V]</th></tr><tr><td>0.0</td><td>48.132</td></tr><tr><td>0.5</td><td>48.208</td></tr><tr><td>1.0</td><td>48.211</td></tr><tr><td>2.0</td><td>48.212</td></tr><tr><td>3.0</td><td>48.213</td></tr><tr><td>4.0</td><td>48.208</td></tr><tr><td>5.0</td><td>48.208</td></tr><tr><td>6.0</td><td>48.200</td></tr><tr><td>7.0</td><td>48.200</td></tr><tr><td>8.0</td><td>48.205</td></tr></table>		Time since start [H]	Output Voltage [V]	0.0	48.132	0.5	48.208	1.0	48.211	2.0	48.212	3.0	48.213	4.0	48.208	5.0	48.208	6.0	48.200	7.0	48.200	8.0	48.205
Time since start [H]	Output Voltage [V]																								
0.0	48.132																								
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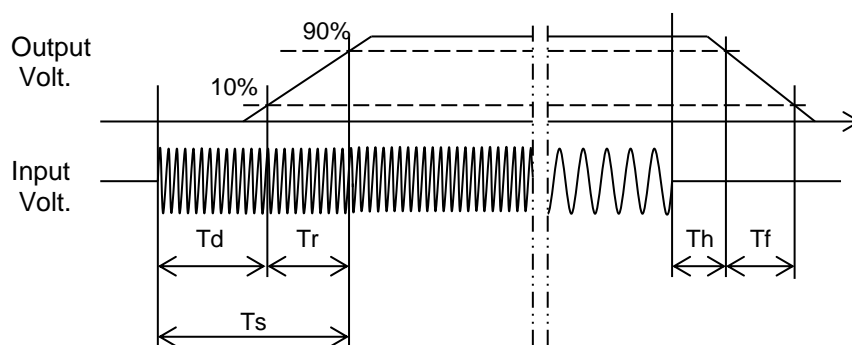
Model	FETA2500BA-48	Temperature	25°C
Item	Rise and Fall Time	Testing Circuitry	Figure A
Object	+48V52A		

1.Graph



2.Values

Load \ Time	Td	Tr	Ts	Th	Tf
50 %	1358.0	15.0	1373.0	26.6	6.9
100 %	1354.0	15.0	1369.0	16.7	3.7



<div>LOREL</div>																																			
Model	FETA2500BA-48																																		
Item	Hold-Up Time	Temperature	25°C																																
Object	+48V52A	Testing Circuitry	Figure A																																
1.Graph		2.Values																																	
<div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div> <div><div>Hold-Up Time [ms]</div><div><div>1000</div><div>100</div><div>10</div><div>1</div></div><div><div>140</div><div>180</div><div>220</div><div>260</div><div>300</div></div><div>Input Voltage [V]</div></div> <div><div>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy.</div><div>Note: Slanted line shows the range of the rated input voltage.</div></div>		<table><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><tr><td>170</td><td>26</td><td>13</td></tr><tr><td>180</td><td>26</td><td>13</td></tr><tr><td>200</td><td>27</td><td>13</td></tr><tr><td>220</td><td>27</td><td>13</td></tr><tr><td>230</td><td>27</td><td>13</td></tr><tr><td>240</td><td>27</td><td>13</td></tr><tr><td>264</td><td>27</td><td>14</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	170	26	13	180	26	13	200	27	13	220	27	13	230	27	13	240	27	13	264	27	14	--	-	-	--	-	-
Input Voltage [V]	Hold-Up Time [ms]																																		
	Load 50%	Load 100%																																	
170	26	13																																	
180	26	13																																	
200	27	13																																	
220	27	13																																	
230	27	13																																	
240	27	13																																	
264	27	14																																	
--	-	-																																	
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Model	FETA2500BA-48																																																					
Item	Instantaneous Interruption Compensation	Temperature	25°C																																																			
Object	+48V52A	Testing Circuitry	Figure A																																																			
1.Graph		2.Values																																																				
<div><div><div>—△—</div><div>Input Volt.</div><div>170V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>264V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>8.0</td><td>83</td><td>82</td><td>80</td></tr><tr><td>16.0</td><td>41</td><td>41</td><td>41</td></tr><tr><td>24.0</td><td>27</td><td>27</td><td>27</td></tr><tr><td>32.0</td><td>20</td><td>19</td><td>20</td></tr><tr><td>40.0</td><td>19</td><td>19</td><td>20</td></tr><tr><td>48.0</td><td>13</td><td>14</td><td>15</td></tr><tr><td>52.0</td><td>12</td><td>12</td><td>14</td></tr><tr><td>57.2</td><td>11</td><td>12</td><td>12</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. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]	0.0	-	-	-	8.0	83	82	80	16.0	41	41	41	24.0	27	27	27	32.0	20	19	20	40.0	19	19	20	48.0	13	14	15	52.0	12	12	14	57.2	11	12	12	--	-	-	-	--	-	-	-
Load Current [A]	Time [ms]																																																					
	Input Volt. 170[V]	Input Volt. 200[V]	Input Volt. 264[V]																																																			
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[illegible]

Model	FETA2500BA-48																																																								
Item	Overcurrent Protection	Temperature 25°C Testing Circuitry Figure A																																																							
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Output Voltage [V]	Load Current [A]																																																								
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Model	FETA2500BA-48																																								
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<div><div><div>—△—</div><div>Input Volt. 170V</div></div><div><div>---□---</div><div>Input Volt. 264V</div></div></div> <p>Operating Point [V]</p> <p>Ambient Temperature [°C]</p> <p>Load 0%</p> <p>Note: Slanted line shows the range of the rated ambient temperature.</p>		<table><tr><th rowspan="2">Ambient Temperature [°C]</th><th colspan="2">Operating Point [V]</th></tr><tr><th>Input Volt. 170[V]</th><th>Input Volt. 264[V]</th></tr><tr><td>-30</td><td>57.77</td><td>58.12</td></tr><tr><td>-20</td><td>57.76</td><td>57.77</td></tr><tr><td>-10</td><td>57.88</td><td>57.76</td></tr><tr><td>0</td><td>57.88</td><td>57.88</td></tr><tr><td>10</td><td>57.88</td><td>57.88</td></tr><tr><td>25</td><td>58.00</td><td>58.00</td></tr><tr><td>40</td><td>57.99</td><td>57.99</td></tr><tr><td>50</td><td>57.99</td><td>57.99</td></tr><tr><td>60</td><td>57.99</td><td>57.99</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Ambient Temperature [°C]	Operating Point [V]		Input Volt. 170[V]	Input Volt. 264[V]	-30	57.77	58.12	-20	57.76	57.77	-10	57.88	57.76	0	57.88	57.88	10	57.88	57.88	25	58.00	58.00	40	57.99	57.99	50	57.99	57.99	60	57.99	57.99	--	-	-	--	-	-
Ambient Temperature [°C]	Operating Point [V]																																								
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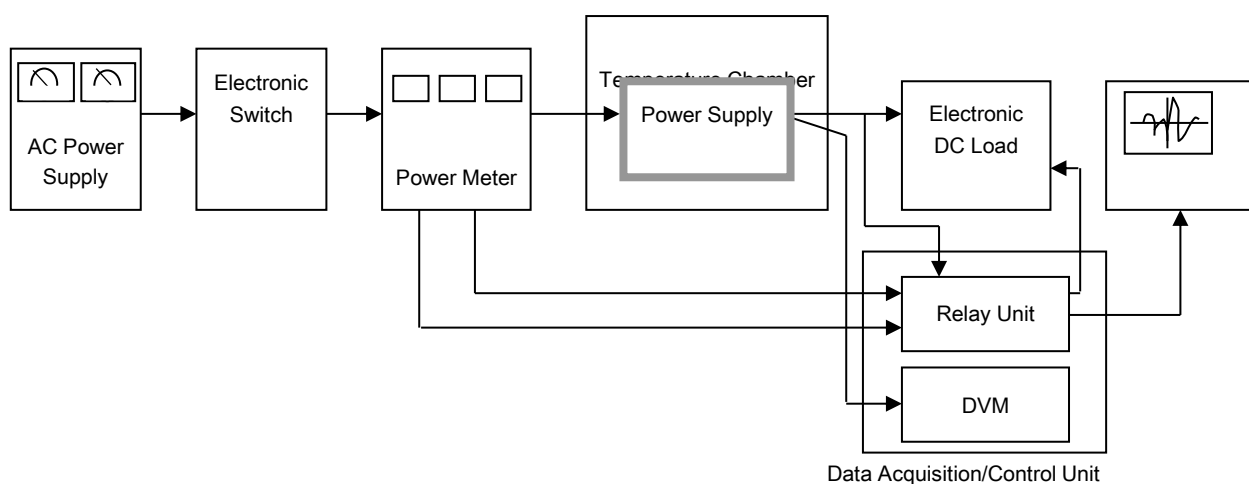


Figure A

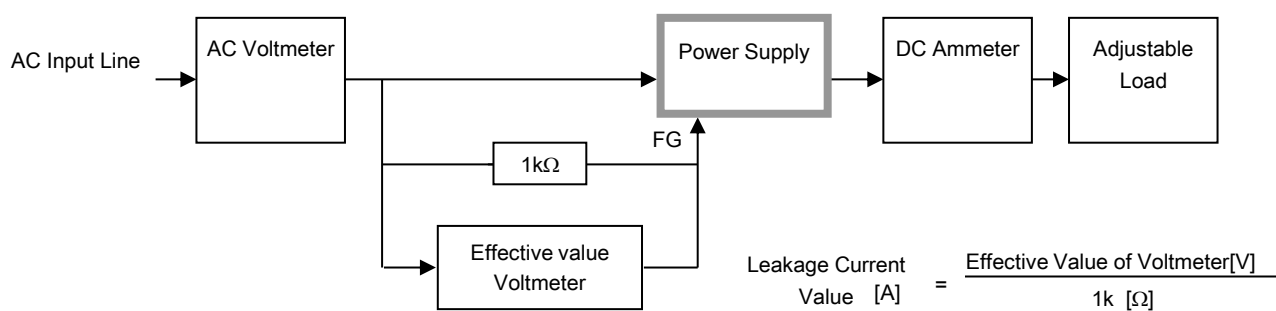


Figure B (DEN-AN)

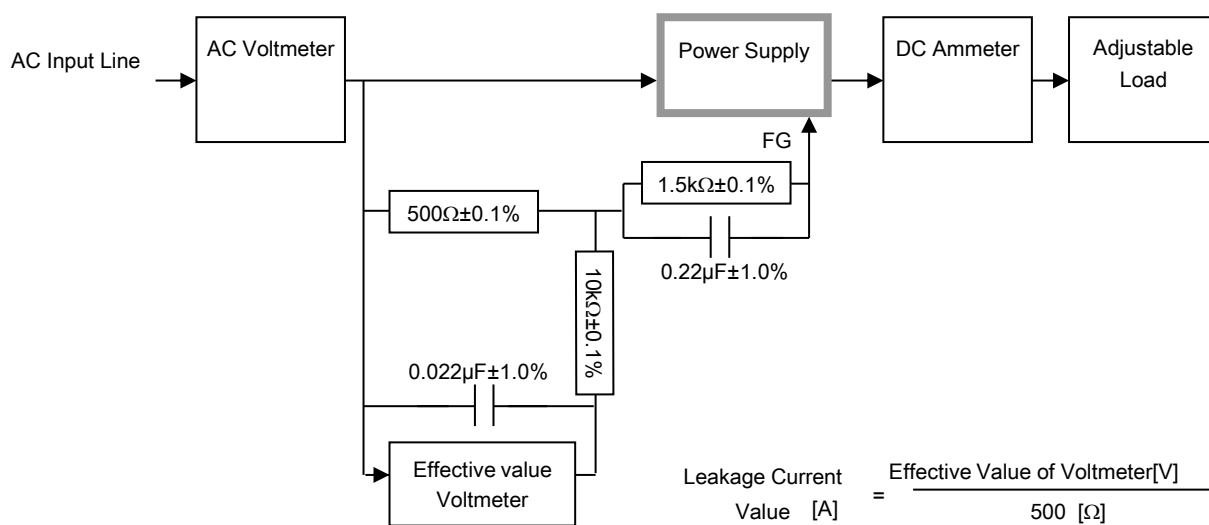


Figure B (IEC60950-1)