

Test Data


Model Number: mUZPT-120-15-JBH

Model Name: DC POWER SUPPLY

INPUT: 85V – 264V AC, 50 / 60 Hz

OUTPUT: 15V 8.0A (13.4A_{peak})

Minimum load : 0W
Rated load :120.0W
Peak output power: 201.0W

Approved by :  (QA manager)
Designed by : Kazuhiko Yamada (R&D engineer)
Tested by : Hirotsuki Watanabe (Evaluation test engineer)

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Model	mUZPT-120-15-JBH	Temperature: 25°C																																		
Item	Input Current (by Load Power)																																			
<p>Legend: - 85V AC (Blue line with diamond markers) - 100V AC (Magenta line with square markers) - 240V AC (Red line with triangle markers) - 264V AC (Green line with asterisk markers)</p>		<table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="4">Input Current [A rms]</th> </tr> <tr> <th>Input Voltage 85V AC</th> <th>Input Voltage 100V AC</th> <th>Input Voltage 240V AC</th> <th>Input Voltage 264V AC</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>0.07</td> <td>0.07</td> <td>0.09</td> <td>0.11</td> </tr> <tr> <td>30.0</td> <td>0.43</td> <td>0.38</td> <td>0.27</td> <td>0.22</td> </tr> <tr> <td>60.0</td> <td>0.81</td> <td>0.69</td> <td>0.42</td> <td>0.35</td> </tr> <tr> <td>90.0</td> <td>1.21</td> <td>1.01</td> <td>0.57</td> <td>0.48</td> </tr> <tr> <td>120.0</td> <td>1.63</td> <td>1.36</td> <td>0.72</td> <td>0.60</td> </tr> </tbody> </table>	Load Power [W]	Input Current [A rms]				Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC	0.0	0.07	0.07	0.09	0.11	30.0	0.43	0.38	0.27	0.22	60.0	0.81	0.69	0.42	0.35	90.0	1.21	1.01	0.57	0.48	120.0	1.63	1.36	0.72	0.60
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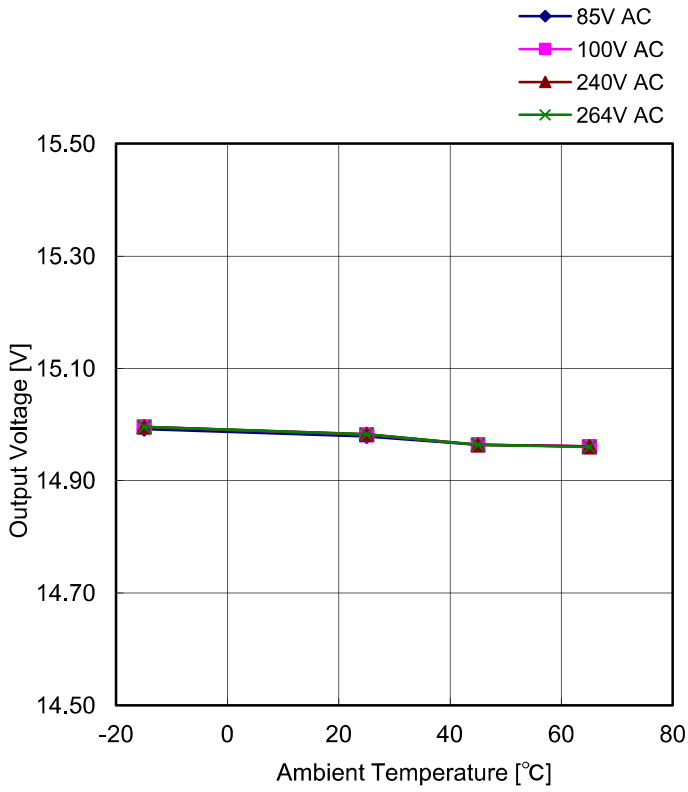
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<p>The graph plots Output Voltage [V] on the y-axis (ranging from 14.80 to 15.20) against AC Input Voltage [V] on the x-axis (ranging from 50 to 300). A single data series labeled 'Rated load' shows a nearly horizontal line at approximately 14.98V, indicating excellent line regulation.</p>		<table border="1"> <thead> <tr> <th>AC Input Voltage [V]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr> <td>85</td> <td>14.979</td> </tr> <tr> <td>100</td> <td>14.982</td> </tr> <tr> <td>132</td> <td>14.983</td> </tr> <tr> <td>176</td> <td>14.983</td> </tr> <tr> <td>200</td> <td>14.983</td> </tr> <tr> <td>220</td> <td>14.982</td> </tr> <tr> <td>240</td> <td>14.983</td> </tr> <tr> <td>264</td> <td>14.983</td> </tr> </tbody> </table>	AC Input Voltage [V]	Output Voltage [V]	85	14.979	100	14.982	132	14.983	176	14.983	200	14.983	220	14.982	240	14.983	264	14.983
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<p>The graph plots Output Voltage [V] on the y-axis (ranging from 14.80 to 15.20) against Load Power [W] on the x-axis (ranging from 0 to 250). Four data series are shown for different input voltages: 85V AC (blue diamonds), 100V AC (magenta squares), 240V AC (red triangles), and 264V AC (green crosses). All series show a very slight dip in output voltage as load power increases, staying consistently between 14.979V and 14.992V.</p>		<table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="4">Output Voltage [V]</th> </tr> <tr> <th>Input Voltage 85V AC</th> <th>Input Voltage 100V AC</th> <th>Input Voltage 240V AC</th> <th>Input Voltage 264V AC</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>14.992</td> <td>14.992</td> <td>14.992</td> <td>14.992</td> </tr> <tr> <td>30.0</td> <td>14.986</td> <td>14.985</td> <td>14.985</td> <td>14.986</td> </tr> <tr> <td>60.0</td> <td>14.983</td> <td>14.984</td> <td>14.983</td> <td>14.981</td> </tr> <tr> <td>90.0</td> <td>14.982</td> <td>14.981</td> <td>14.982</td> <td>14.979</td> </tr> <tr> <td>120.0</td> <td>14.983</td> <td>14.983</td> <td>14.982</td> <td>14.979</td> </tr> <tr> <td>201.0</td> <td>14.984</td> <td>14.983</td> <td>14.982</td> <td>14.982</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="2">Load Condition</th> </tr> <tr> <th colspan="2">Load Current [A]</th> </tr> </thead> <tbody> <tr> <td></td> <td colspan="2">15V</td> </tr> <tr> <td>0.0</td> <td colspan="2">0.00</td> </tr> <tr> <td>30.0</td> <td colspan="2">2.00</td> </tr> <tr> <td>60.0</td> <td colspan="2">4.00</td> </tr> <tr> <td>90.0</td> <td colspan="2">6.00</td> </tr> <tr> <td>120.0</td> <td colspan="2">8.00</td> </tr> <tr> <td>201.0</td> <td colspan="2">13.40</td> </tr> </tbody> </table>	Load Power [W]	Output Voltage [V]				Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC	0.0	14.992	14.992	14.992	14.992	30.0	14.986	14.985	14.985	14.986	60.0	14.983	14.984	14.983	14.981	90.0	14.982	14.981	14.982	14.979	120.0	14.983	14.983	14.982	14.979	201.0	14.984	14.983	14.982	14.982	Load Power [W]	Load Condition		Load Current [A]			15V		0.0	0.00		30.0	2.00		60.0	4.00		90.0	6.00		120.0	8.00		201.0	13.40	
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Model mUZPT-120-15-JBH

Item Ambient Temperature Drift



Ambient Temp. (°C)	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
-15	14.992	14.996	14.996	14.996
25	14.979	14.982	14.983	14.983
45	14.964	14.964	14.964	14.964
65	14.961	14.961	14.961	14.960

Load Condition

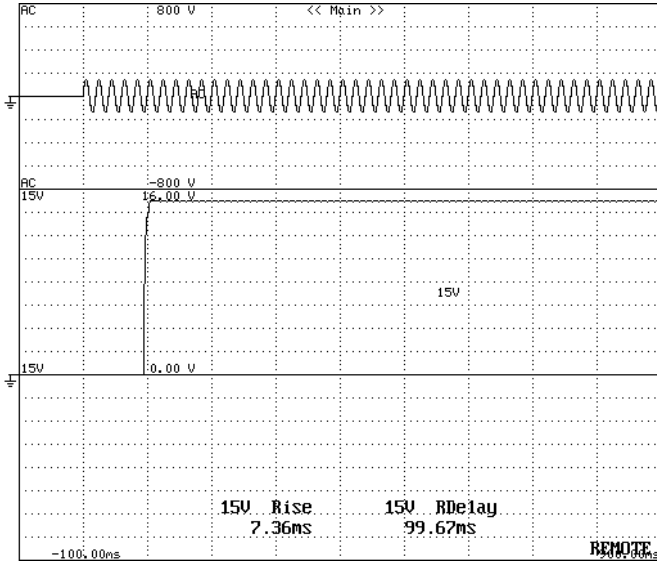
Ambient Temp. (°C)	Load Current [A]
	15V
-15	6.70
25	6.70
45	6.70
65	4.67

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Output Rise Characteristics (at AC Power ON)	

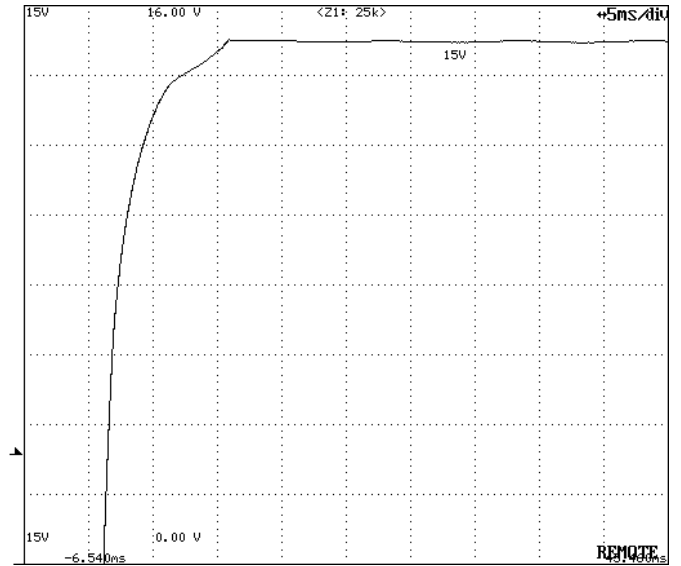
Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 5ms/div



All Output Start-up Sequence

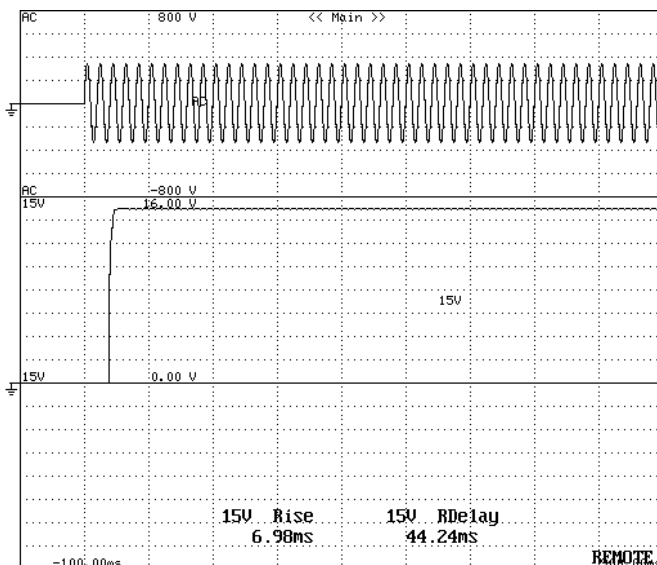


15V DC Output Rise Characteristics

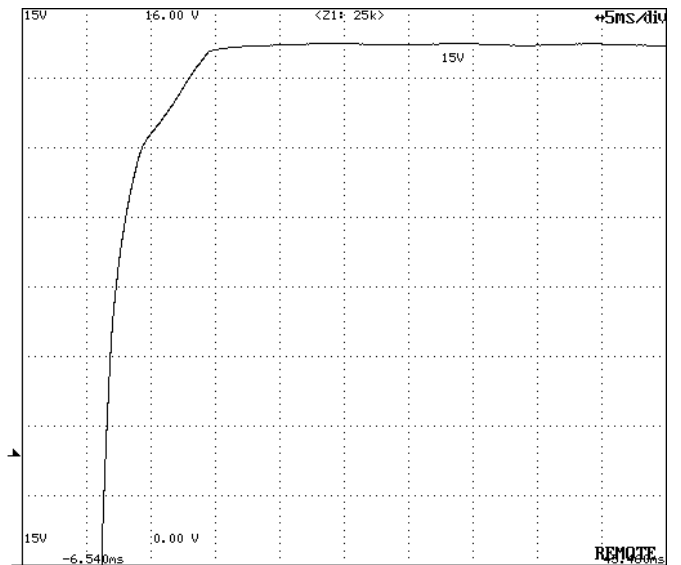
Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 5ms/div



All Output Start-up Sequence



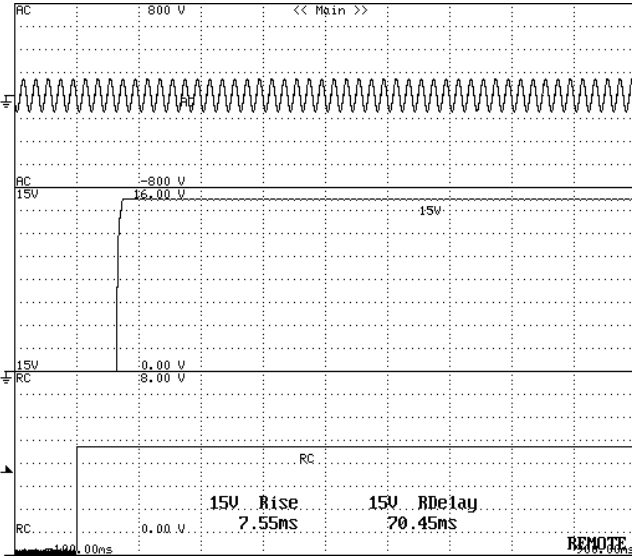
15V DC Output Rise Characteristics

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Output Rise Characteristics (at Remote ON)	

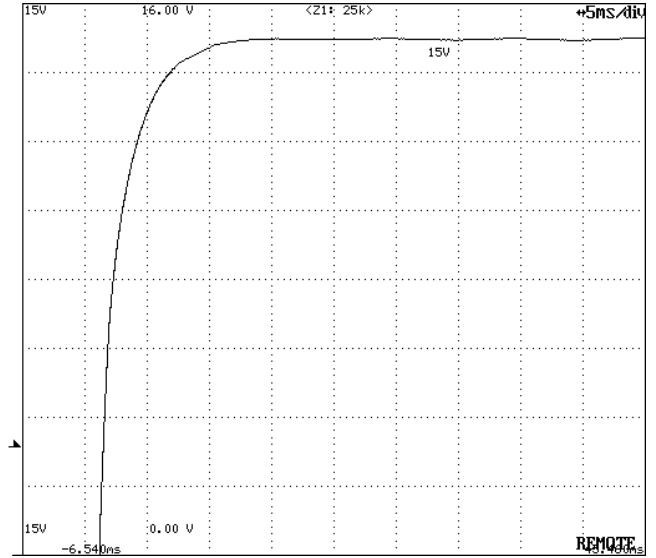
Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 5ms/div



All Output Start-up Sequence

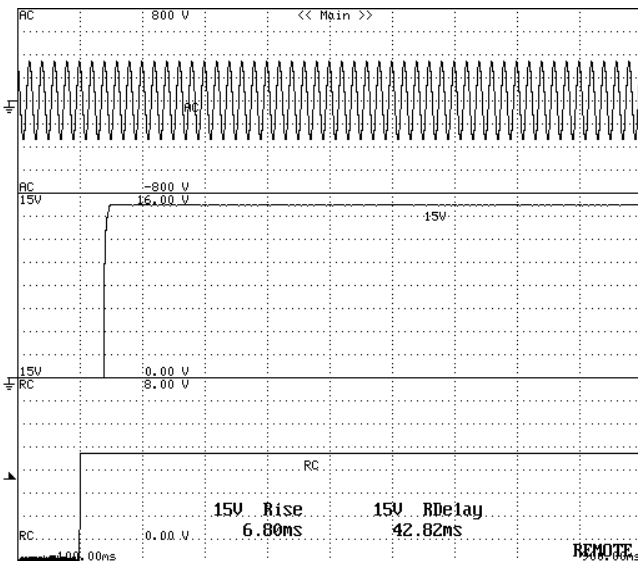


15V DC Output Rise Characteristics

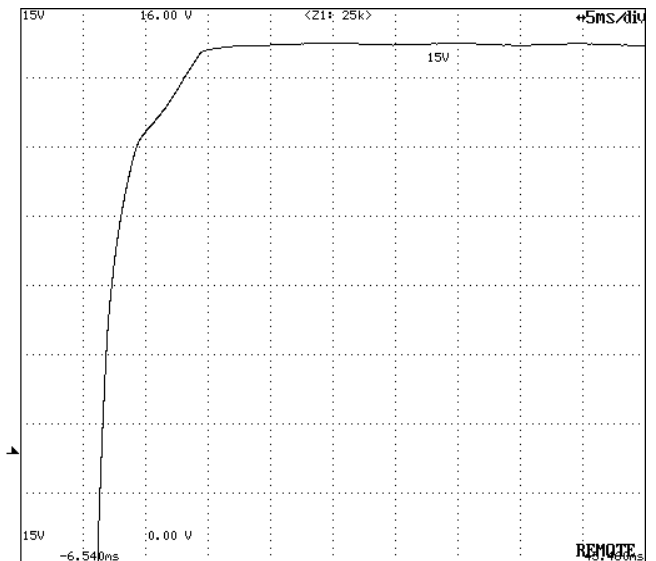
Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 5ms/div



All Output Start-up Sequence

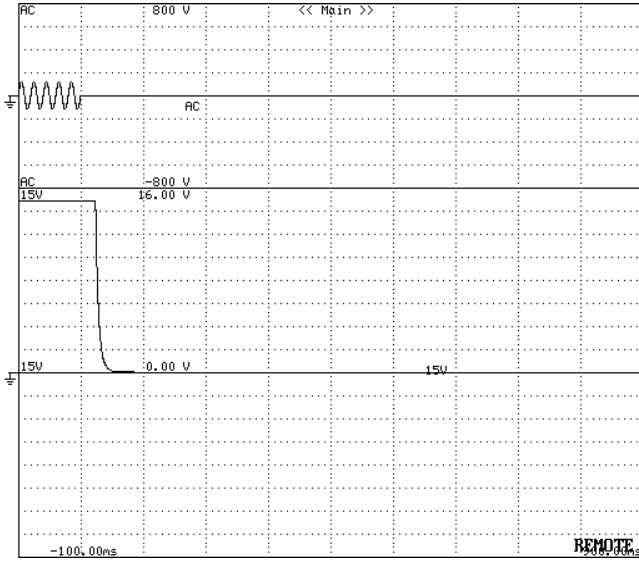


15V DC Output Rise Characteristics

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Output Fall Characteristics (at AC Power OFF)	

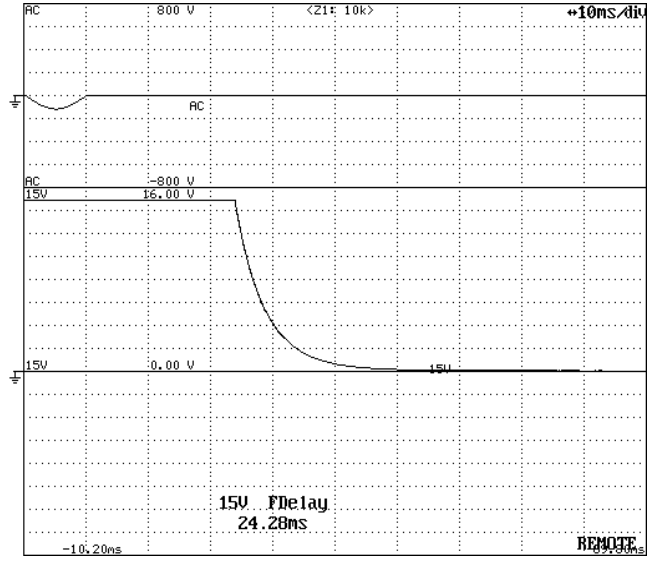
Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div



Output Fall Characteristics

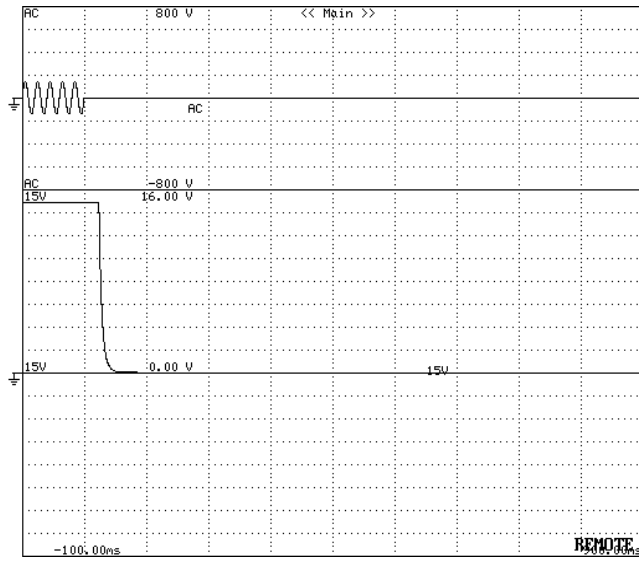
Timebase Range: 10ms/div



Output Fall Characteristics (magnification)

Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div



Output Fall Characteristics

Timebase Range: 10ms/div

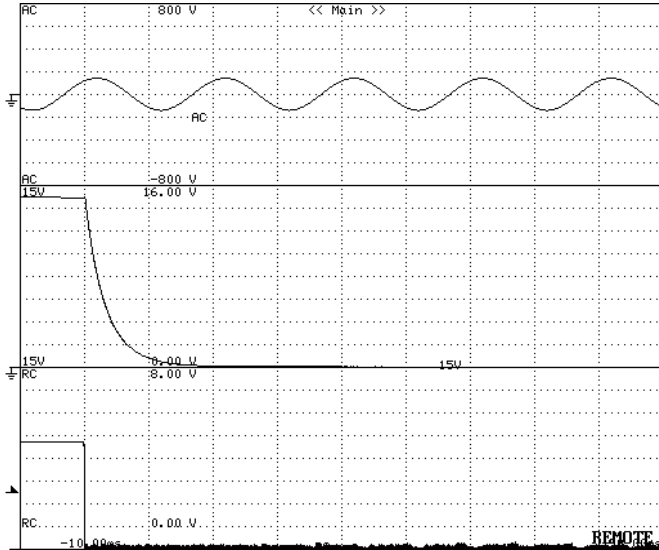


Output Fall Characteristics (magnification)

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Output Fall Characteristics (at Remote OFF)	

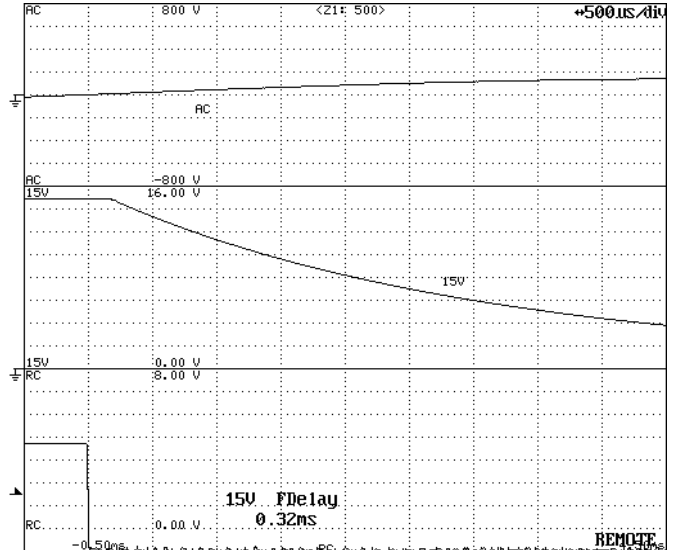
Input: 100V AC
Load: Rated Load

Timebase Range: 10ms/div



Output Fall Characteristics

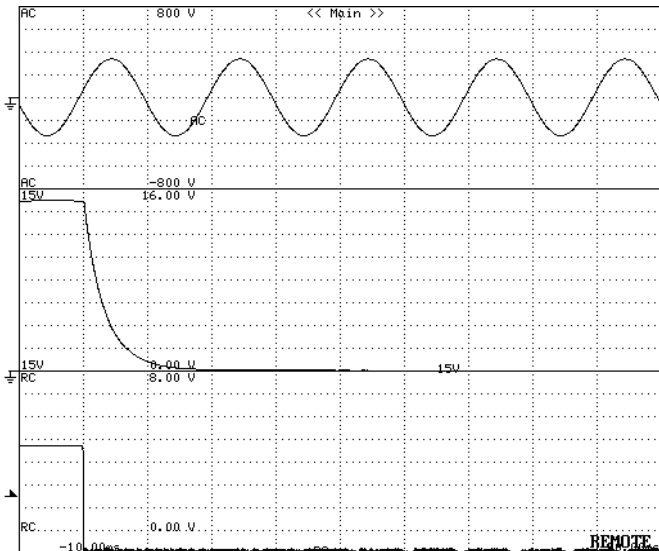
Timebase Range: 500µs/div



Output Fall Characteristics (magnification)

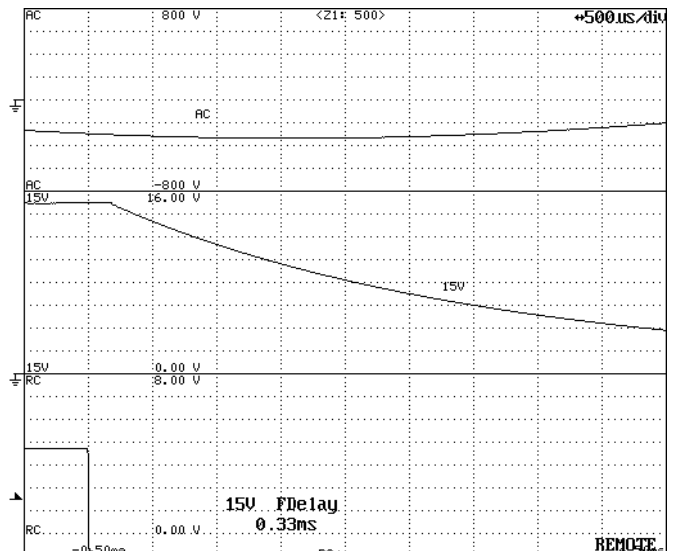
Input: 240V AC
Load: Rated Load

Timebase Range: 10ms/div



Output Fall Characteristics

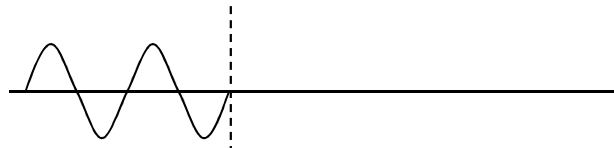
Timebase Range: 500µs/div



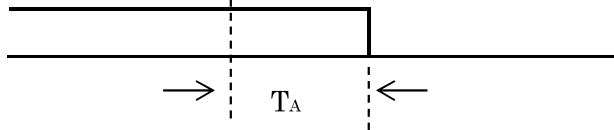
Output Fall Characteristics (magnification)

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Instantaneous Interruption Compensation (by Load Power)	

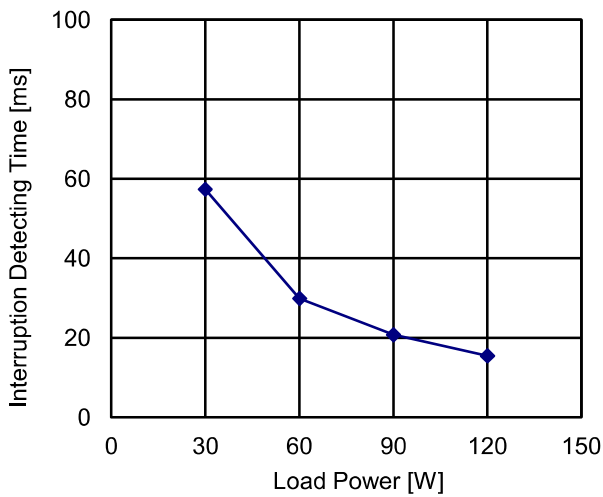
Input Voltage



Output Voltage

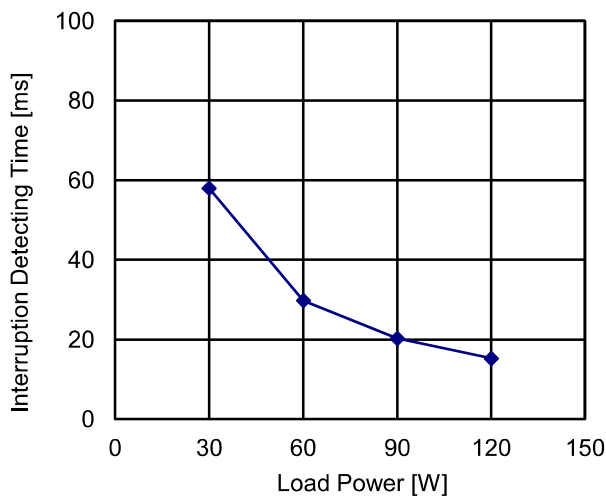


Input Voltage:100V AC



Load Power [W]	Interruption Detecting Time [ms]
	Output Voltage
	T _A
30.0	57.4
60.0	29.9
90.0	20.8
120.0	15.5

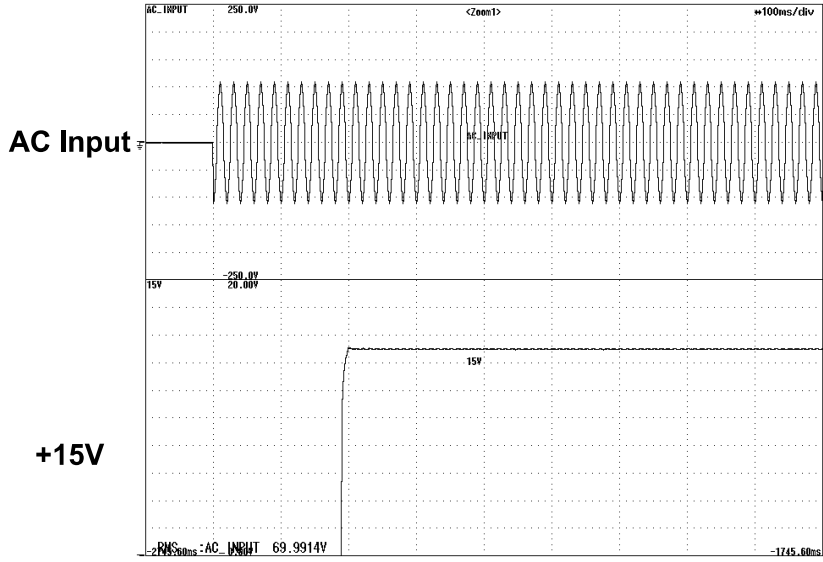
Input Voltage:240V AC



Load Power [W]	Interruption Detecting Time [ms]
	Output Voltage
	T _A
30.0	58.0
60.0	29.8
90.0	20.3
120.0	15.3

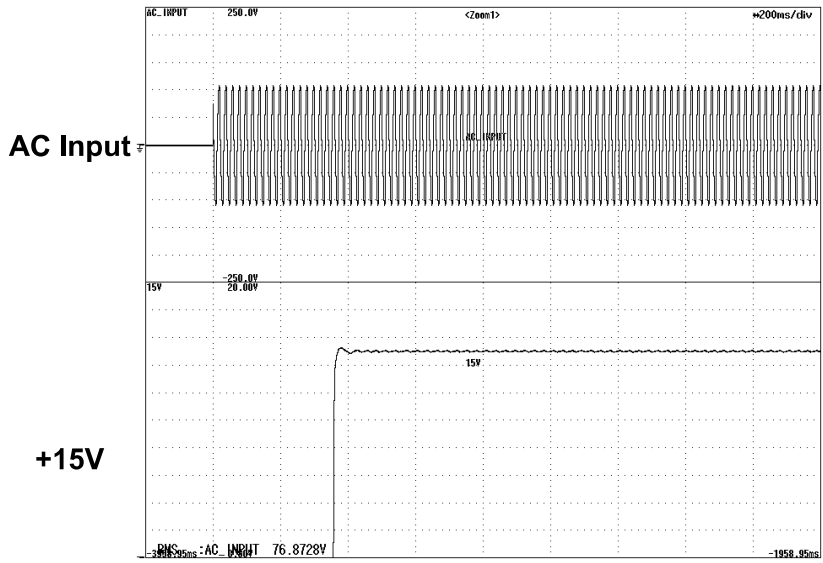
Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Start-Up Voltage	

**Timebase Range: 100ms/div
Load: Rated Load**



Start-up Voltage: 70.0V AC

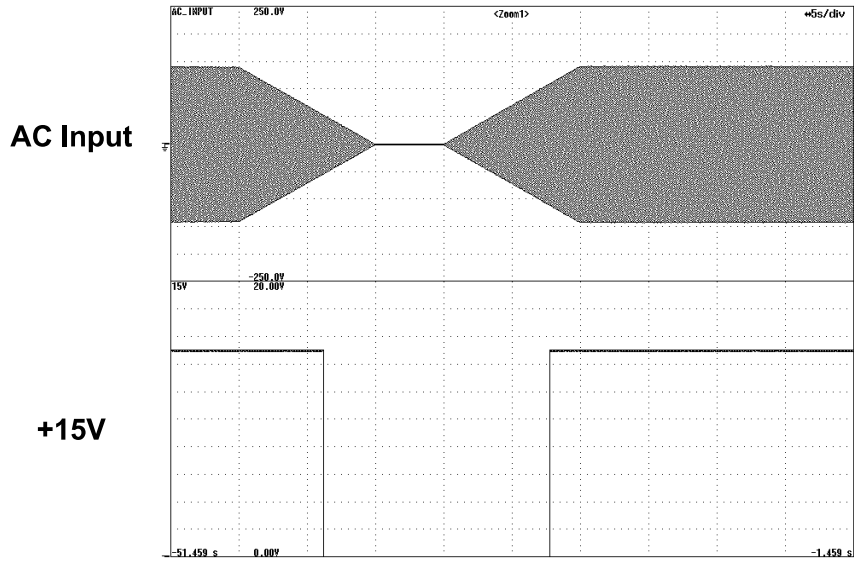
**Timebase Range: 200ms/div
Load: Minimum Load**



Start-up Voltage: 76.9V AC

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Input Voltage Sweep Up/Down	

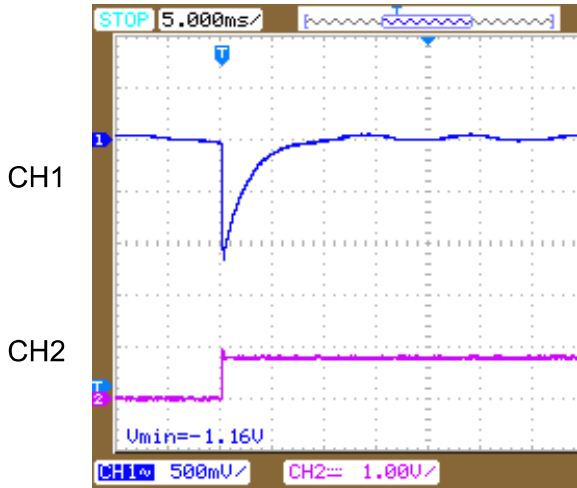
**Timebase Range: 5s/div
Load: Rated Load**



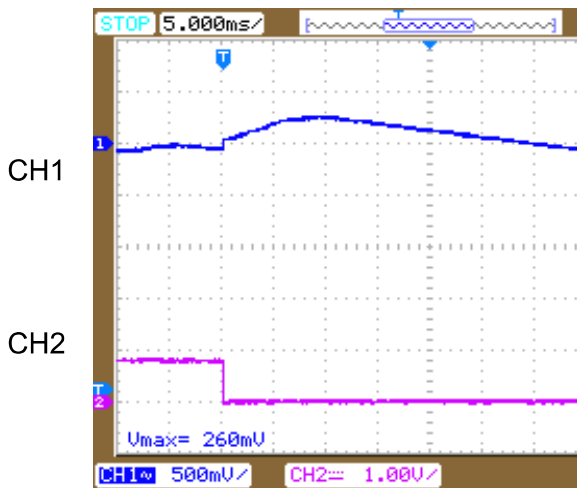
Sweep Rate: 10Vave/sec

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Dynamic Load Response	

+15V DC Output Transient Response Waveforms

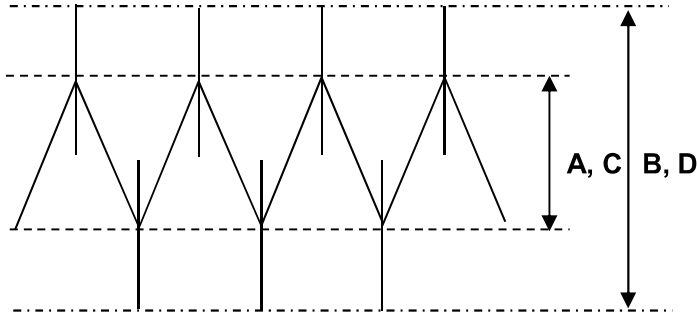


Waveform 1	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 500mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC
Note: Minimum load(0A) → Rated Load(8.0A)	



Waveform 2	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 500mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC
Note: Rated Load(8.0A) → Minimum load(0A)	

Model	mUZPT-120-15-JBH	Load: Rated Load
Item	Ripple / Noise Voltage	



at 100V AC

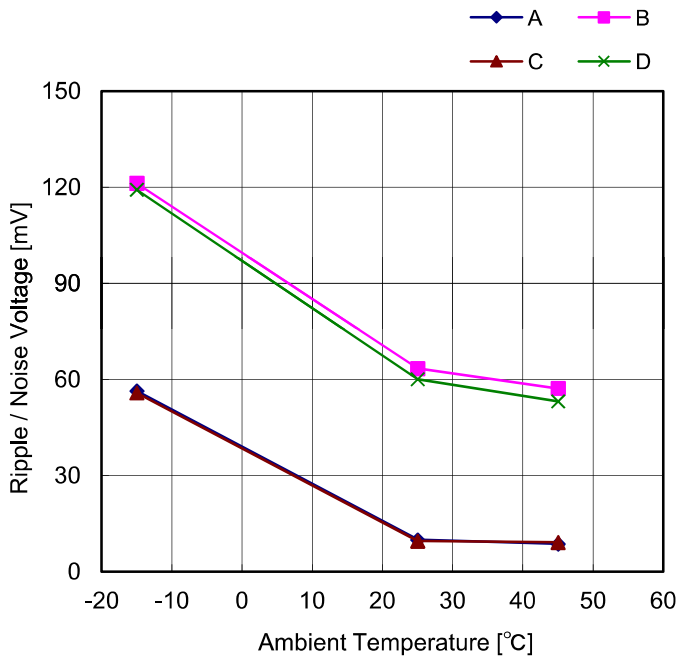
A: Ripple Voltage (mV_{P-P})

B: Noise Voltage (mV_{P-P})

at 240V AC

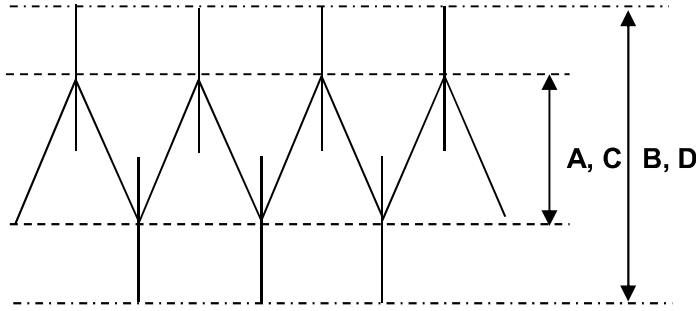
C: Ripple Voltage (mV_{P-P})

D: Noise Voltage (mV_{P-P})



Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-15	56.4	121.2	55.8	119.2
25	9.9	63.4	9.5	60.1
45	8.6	57.2	9.1	53.1

Model	mUZPT-120-15-JBH	Temperature : 25°C
Item	Ambient Temperature Drift	

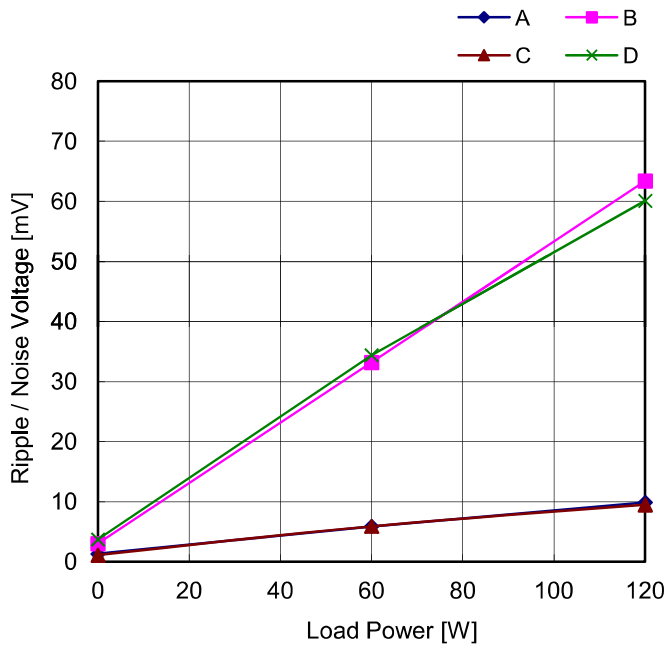


at 100V AC

A: Ripple Voltage (mVP-P)
B: Noise Voltage (mVP-P)

at 240V AC

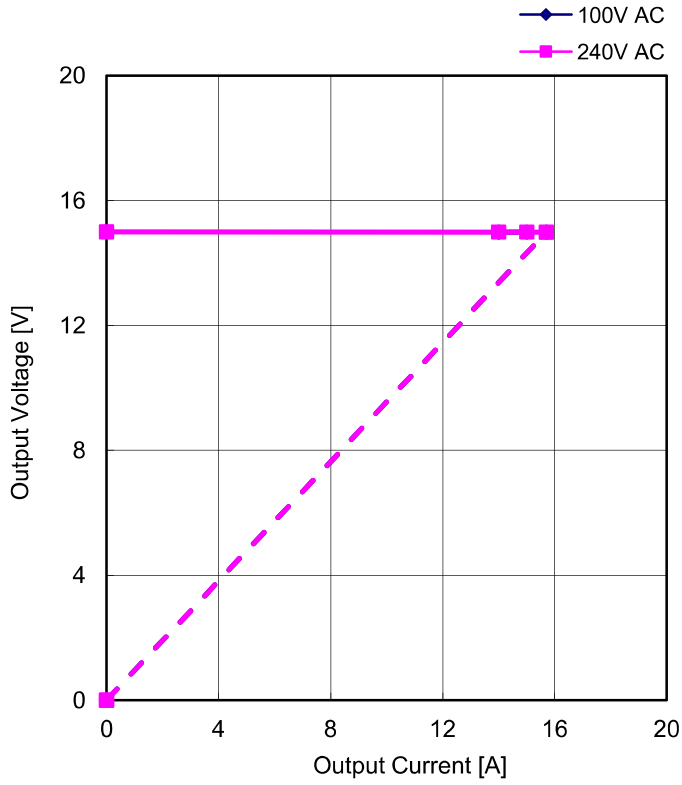
C: Ripple Voltage (mVP-P)
D: Noise Voltage (mVP-P)



Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
0	1.3	3.0	1.1	3.7
60.0	5.9	33.2	5.9	34.4
120.0	9.9	63.4	9.5	60.1

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Over-Current Protection	

V-I Characteristics of 15V O.C.P



Input Voltage: 100V AC		Input Voltage: 240V AC	
Output Current [A]	Output Voltage [V]	Output Current [A]	Output Voltage [V]
0.00	15.00	0.00	15.00
14.00	14.99	14.00	14.99
15.00	14.99	15.00	14.99
15.70	14.99	15.70	14.99

Model	mUZPT-120-15-JBH	Load: Minimum Load
Item	Over-Voltage Protection	

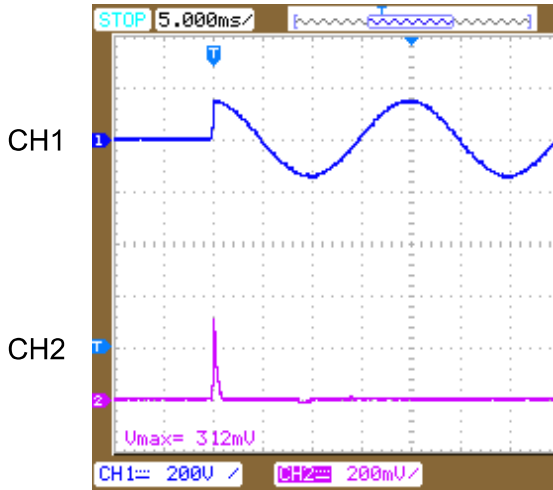
Legend:
◆ 100V AC
■ 240V AC

Ambient Temp. [°C]	100V AC [V]	240V AC [V]
-15	18.45	18.33
25	18.59	18.60
45	18.86	18.85
65	18.97	18.96

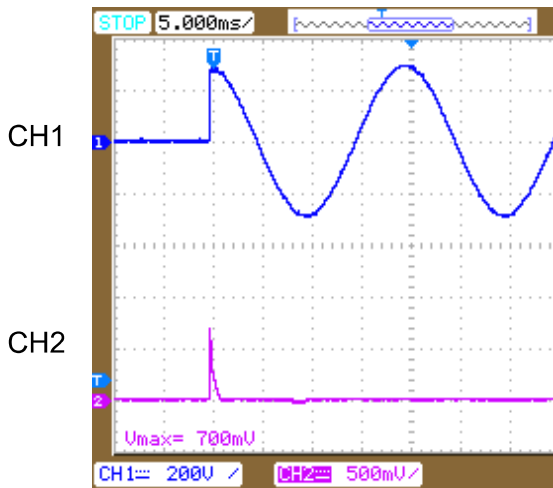
Ambient Temp. [°C]	Output Voltage [V]	
	100V AC	240V AC
-15	18.45	18.33
25	18.59	18.60
45	18.86	18.85
65	18.97	18.96

Model	mUZPT-120-15-JBH	Temperature: 25°C
Item	Inrush Current	Load: Rated Load

Inrush Current Waveforms



Waveform 1	
CH1	Measuring Point: AC Input Voltage
	Range: 200V/div
CH2	Measuring Point: AC Input Current
	Range: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC Load: Rated Load
Note: Inrush Current: 15.6A	



Waveform 2	
CH1	Measuring Point: AC Input Voltage
	Range: 200V/div
CH2	Measuring Point: AC Input Current
	Range: 25A/div
Timebase Range	5ms/div
Condition	Input: 200V AC Load: Rated Load
Note: Inrush Current: 35.0A	

Model	mUZPT-120-15-JBH	Load: Rated Load																		
Item	Leakage Current																			
<p>The graph plots Leakage Current [mA] on the y-axis (0 to 1.0) against AC Input Voltage [V] on the x-axis (50 to 300). The data points show a slight upward trend in leakage current as the input voltage increases.</p>		<table border="1"> <thead> <tr> <th>AC Input Voltage [V]</th> <th>Leakage Current [mA]</th> </tr> </thead> <tbody> <tr> <td>85</td> <td>0.03</td> </tr> <tr> <td>100</td> <td>0.03</td> </tr> <tr> <td>132</td> <td>0.04</td> </tr> <tr> <td>176</td> <td>0.06</td> </tr> <tr> <td>200</td> <td>0.06</td> </tr> <tr> <td>220</td> <td>0.07</td> </tr> <tr> <td>240</td> <td>0.08</td> </tr> <tr> <td>264</td> <td>0.09</td> </tr> </tbody> </table>	AC Input Voltage [V]	Leakage Current [mA]	85	0.03	100	0.03	132	0.04	176	0.06	200	0.06	220	0.07	240	0.08	264	0.09
AC Input Voltage [V]	Leakage Current [mA]																			
85	0.03																			
100	0.03																			
132	0.04																			
176	0.06																			
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240	0.08																			
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