

Test Data


Model Number: mUZPT-120-12-JB0

Model Name: DC POWER SUPPLY

INPUT: 85V – 264V AC, 50 / 60 Hz

OUTPUT: 12V 8.4A (16.7 A_{peak})

Minimum load : 0W
Rated load :100.8W
Peak output power: 200.4W

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

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Model	mUZPT-120-12-JB0	Temperature: 25°C																																		
Item	Input Current (by Load Power)																																			
<p>Legend: ◆ 85V AC ■ 100V AC ▲ 240V AC × 264V AC</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>0.08</td> <td>0.09</td> </tr> <tr> <td>25.2</td> <td>0.39</td> <td>0.34</td> <td>0.24</td> <td>0.20</td> </tr> <tr> <td>50.4</td> <td>0.71</td> <td>0.61</td> <td>0.37</td> <td>0.32</td> </tr> <tr> <td>75.6</td> <td>1.05</td> <td>0.89</td> <td>0.50</td> <td>0.43</td> </tr> <tr> <td>100.8</td> <td>1.40</td> <td>1.16</td> <td>0.62</td> <td>0.54</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	0.08	0.09	25.2	0.39	0.34	0.24	0.20	50.4	0.71	0.61	0.37	0.32	75.6	1.05	0.89	0.50	0.43	100.8	1.40	1.16	0.62	0.54
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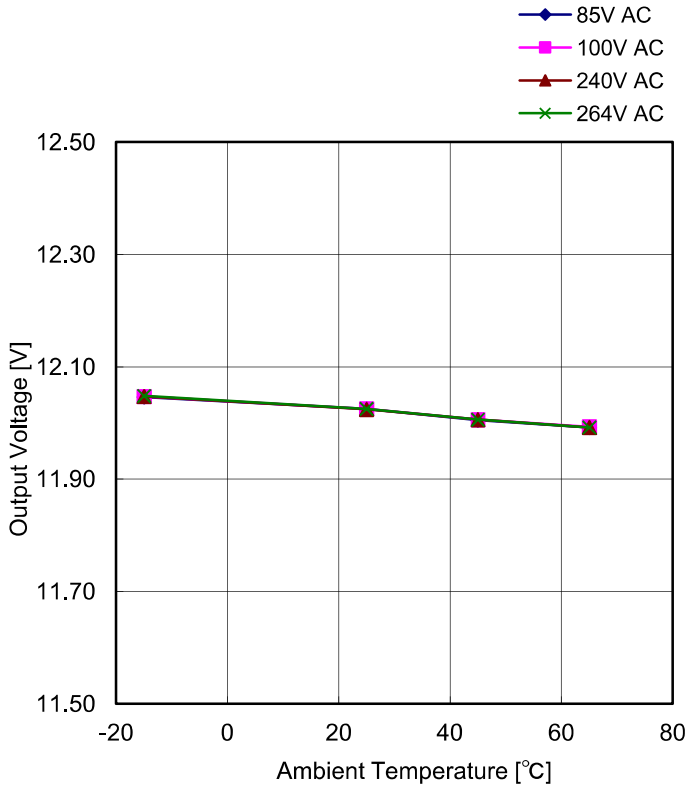
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<p>The graph plots Output Voltage [V] on the y-axis (ranging from 11.80 to 12.20) against AC Input Voltage [V] on the x-axis (ranging from 50 to 300). A single data series labeled 'Rated load' shows a nearly horizontal line at approximately 12.025V, indicating excellent line regulation. The data points are as follows:</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>12.025</td></tr> <tr><td>100</td><td>12.025</td></tr> <tr><td>132</td><td>12.024</td></tr> <tr><td>176</td><td>12.025</td></tr> <tr><td>200</td><td>12.025</td></tr> <tr><td>220</td><td>12.025</td></tr> <tr><td>240</td><td>12.024</td></tr> <tr><td>264</td><td>12.025</td></tr> </tbody> </table>		AC Input Voltage [V]	Output Voltage [V]	85	12.025	100	12.025	132	12.024	176	12.025	200	12.025	220	12.025	240	12.024	264	12.025	<table border="1"> <thead> <tr> <th>AC Input Voltage [V]</th> <th>Output Voltage [V]</th> </tr> </thead> <tbody> <tr><td>85</td><td>12.025</td></tr> <tr><td>100</td><td>12.025</td></tr> <tr><td>132</td><td>12.024</td></tr> <tr><td>176</td><td>12.025</td></tr> <tr><td>200</td><td>12.025</td></tr> <tr><td>220</td><td>12.025</td></tr> <tr><td>240</td><td>12.024</td></tr> <tr><td>264</td><td>12.025</td></tr> </tbody> </table>	AC Input Voltage [V]	Output Voltage [V]	85	12.025	100	12.025	132	12.024	176	12.025	200	12.025	220	12.025	240	12.024	264	12.025
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Model mUZPT-120-12-JB0

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	12.046	12.047	12.047	12.048
25	12.025	12.025	12.024	12.025
45	12.005	12.006	12.006	12.006
65	11.992	11.993	11.992	11.992

Load Condition

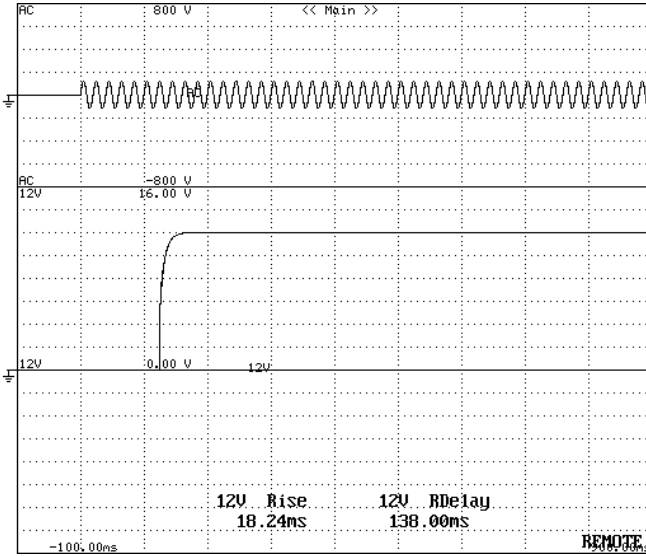
Ambient Temp. (°C)	Load Current [A]
	12V
-15	8.40
25	8.40
45	8.40
65	5.83

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Output Rise Characteristics (at AC Power ON)	

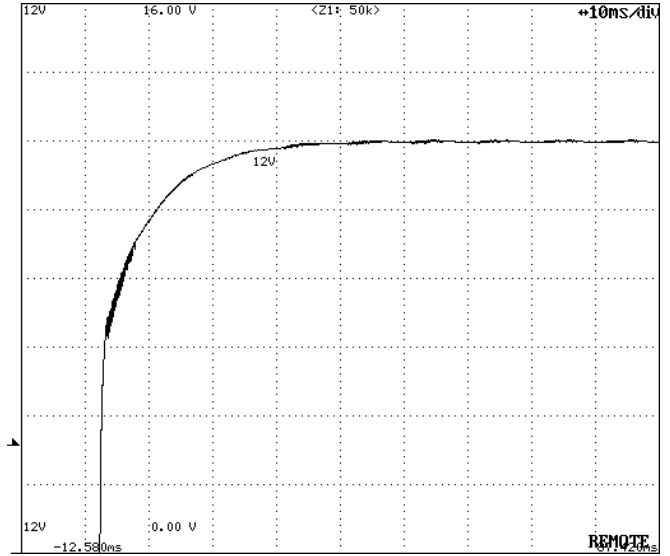
Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 10ms/div



All Output Start-up Sequence

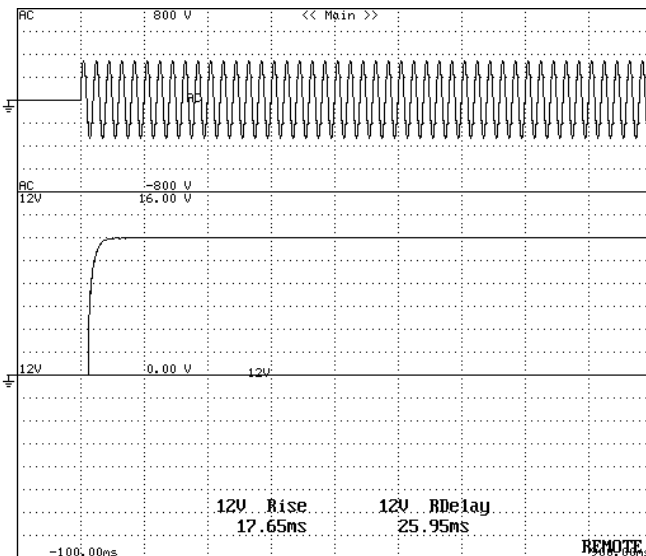


12V DC Output Rise Characteristics

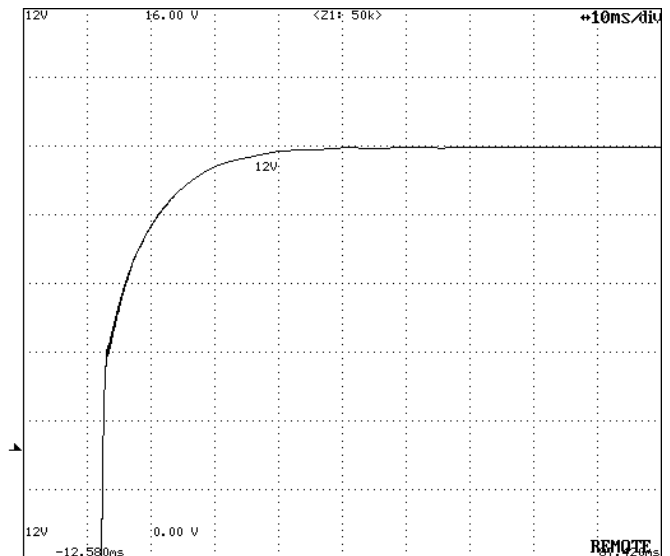
Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 10ms/div



All Output Start-up Sequence



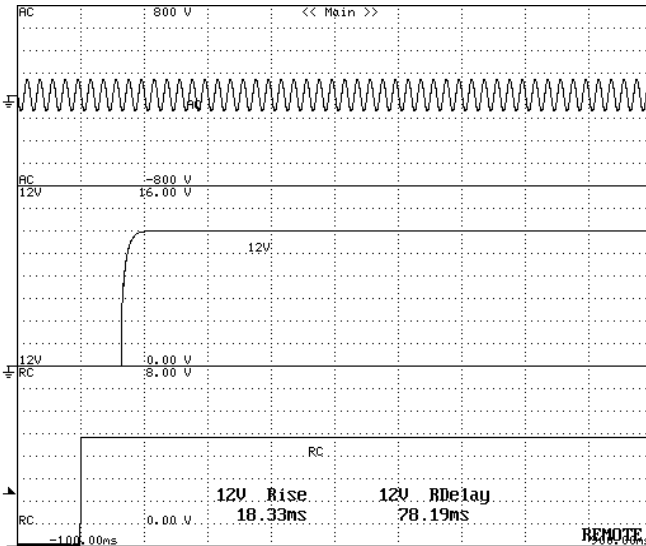
12V DC Output Rise Characteristics

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Output Rise Characteristics (at Remote ON)	

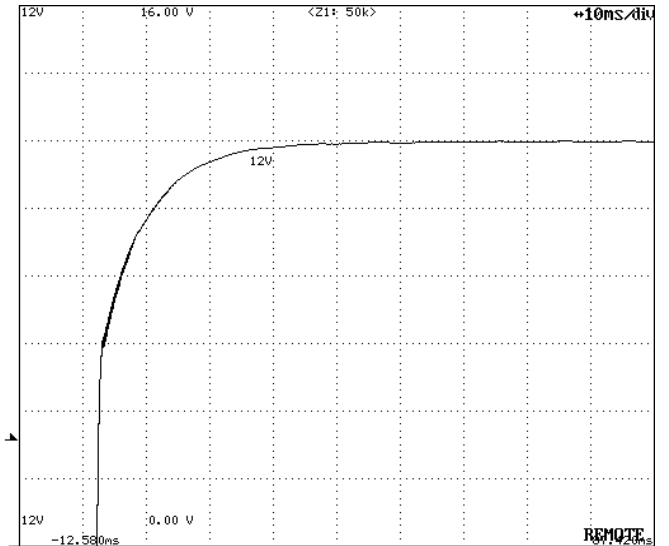
Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 10ms/div



All Output Start-up Sequence

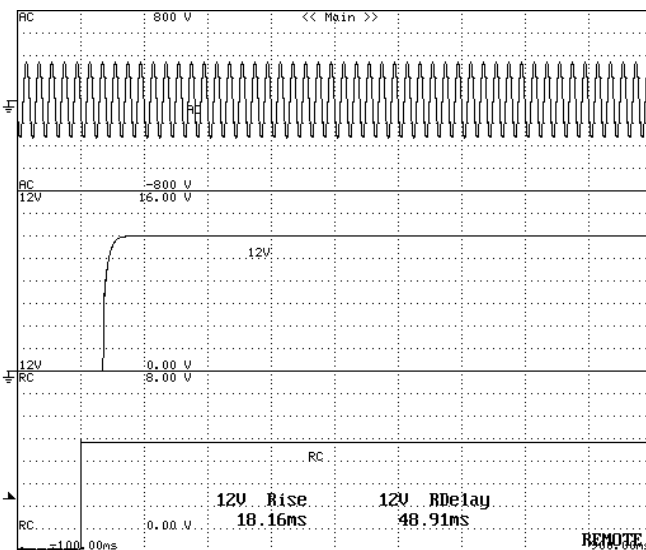


12V DC Output Rise Characteristics

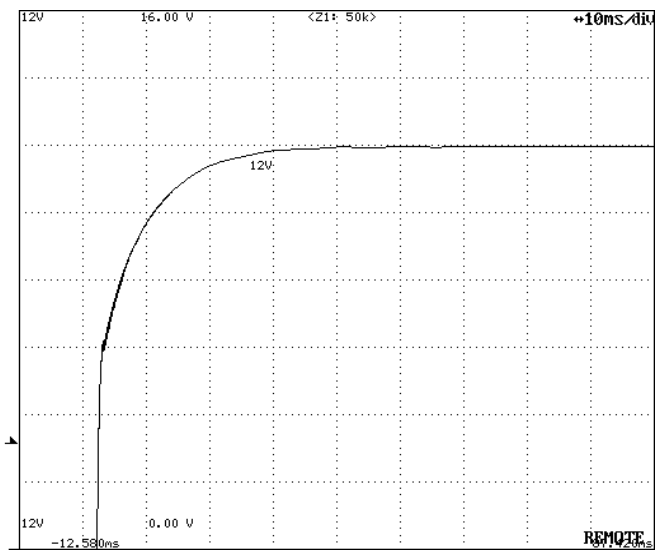
Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div

Vertical Sensitivity: 2V/div
Timebase Range: 10ms/div



All Output Start-up Sequence

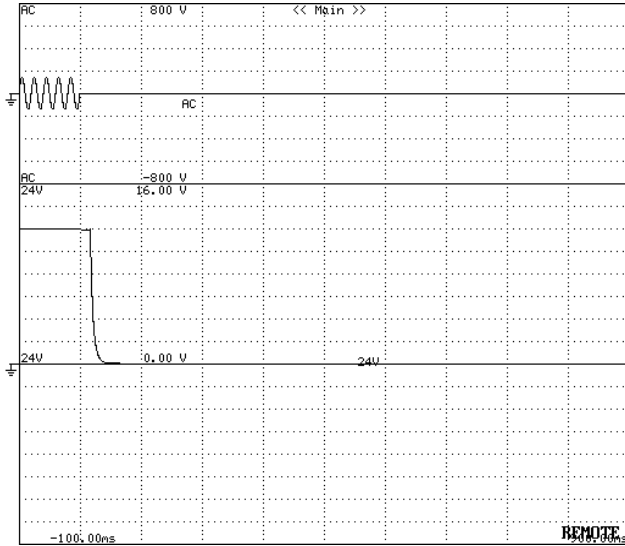


12V DC Output Rise Characteristics

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Output Fall Characteristics (at AC Power OFF)	

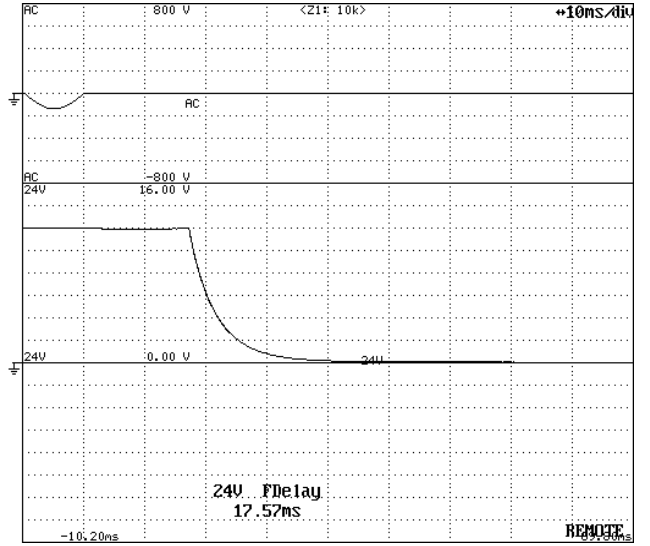
Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div



Output Fall Characteristics

Timebase Range: 10ms/div



Output Fall Characteristics (magnification)

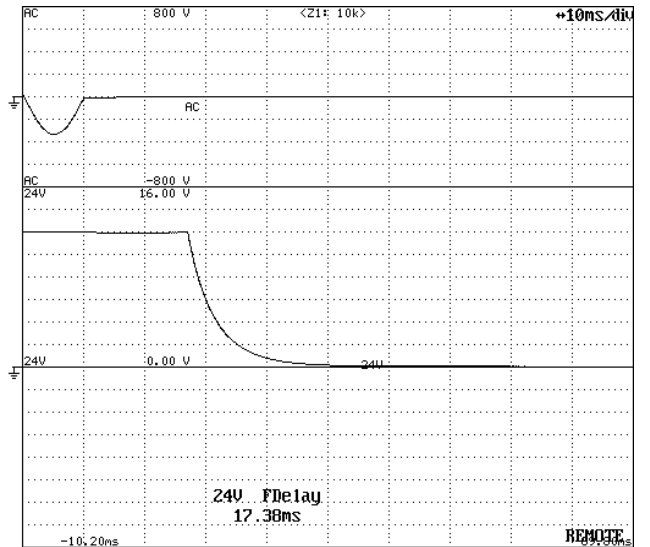
Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div



Output Fall Characteristics

Timebase Range: 10ms/div

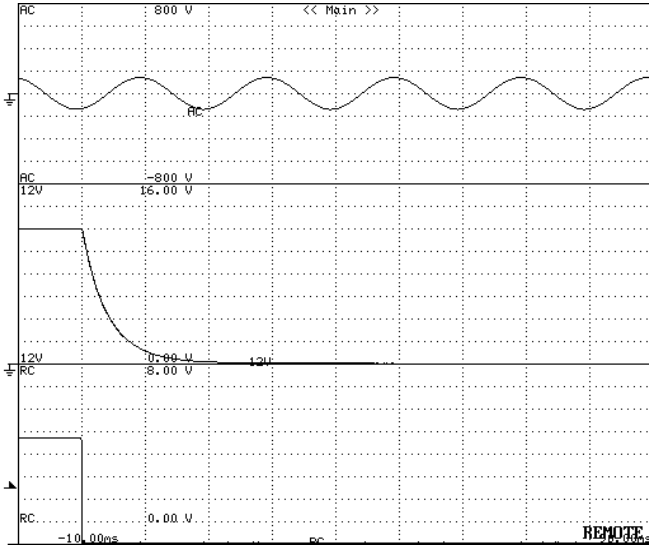


Output Fall Characteristics (magnification)

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Output Fall Characteristics (at Remote OFF)	

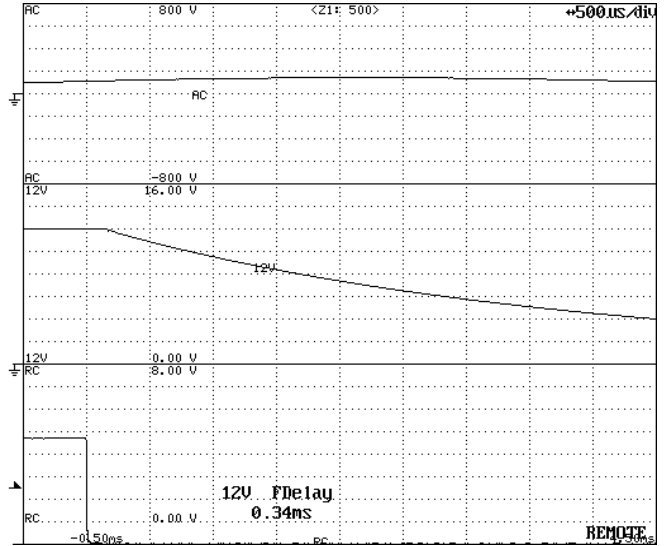
Input: 100V AC
Load: Rated Load

Timebase Range: 10ms/div



Output Fall Characteristics

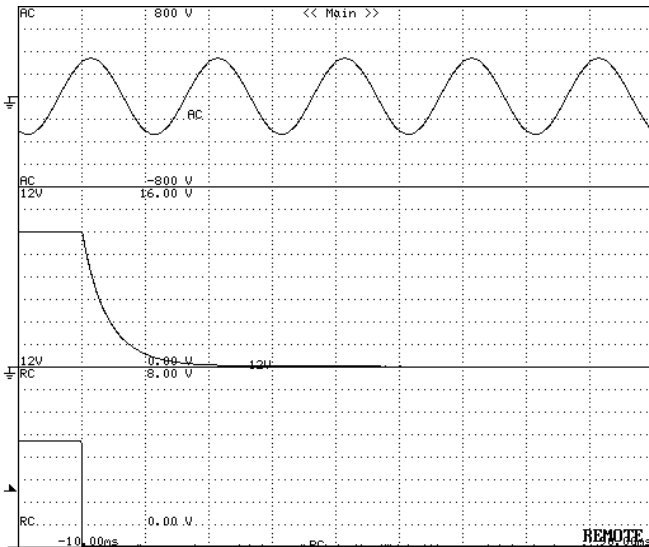
Timebase Range: 500µs/div



Output Fall Characteristics (magnification)

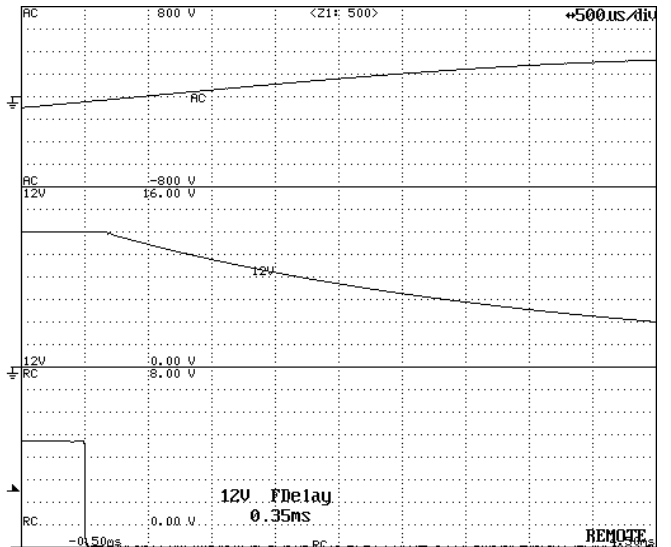
Input: 240V AC
Load: Rated Load

Timebase Range: 10ms/div



Output Fall Characteristics

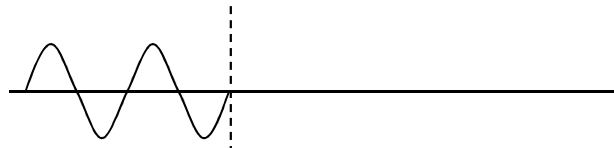
Timebase Range: 500µs/div



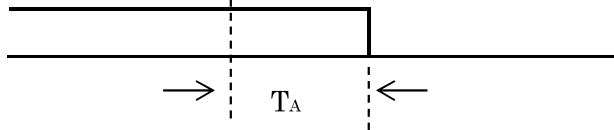
Output Fall Characteristics (magnification)

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Instantaneous Interruption Compensation (by Load Power)	

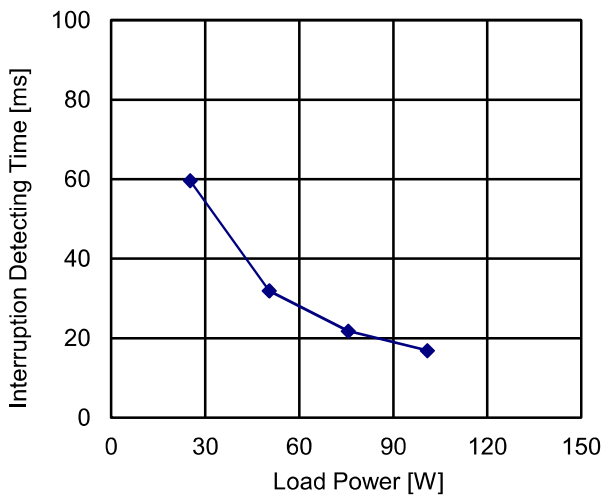
Input Voltage



Output Voltage

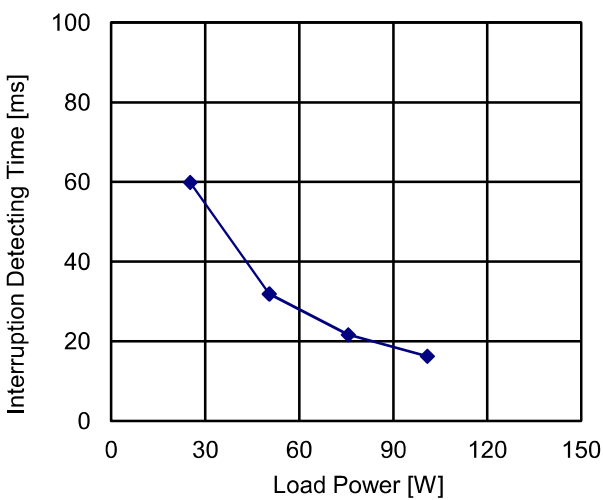


Input Voltage:100V AC



Load Power [W]	Interruption Detecting Time [ms]
	Output Voltage
	T _A
25.2	59.6
50.4	31.9
75.6	21.8
100.8	16.9

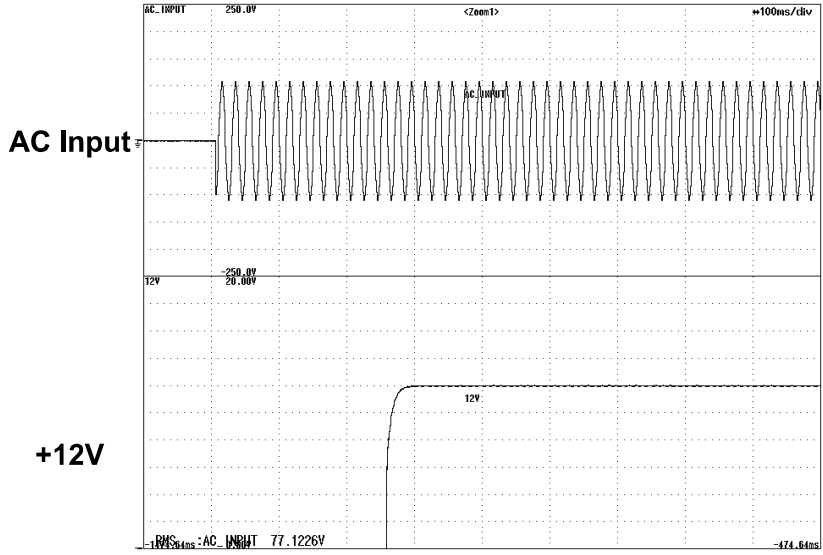
Input Voltage:240V AC



Load Power [W]	Interruption Detecting Time [ms]
	Output Voltage
	T _A
25.2	59.9
50.4	31.9
75.6	21.7
100.8	16.3

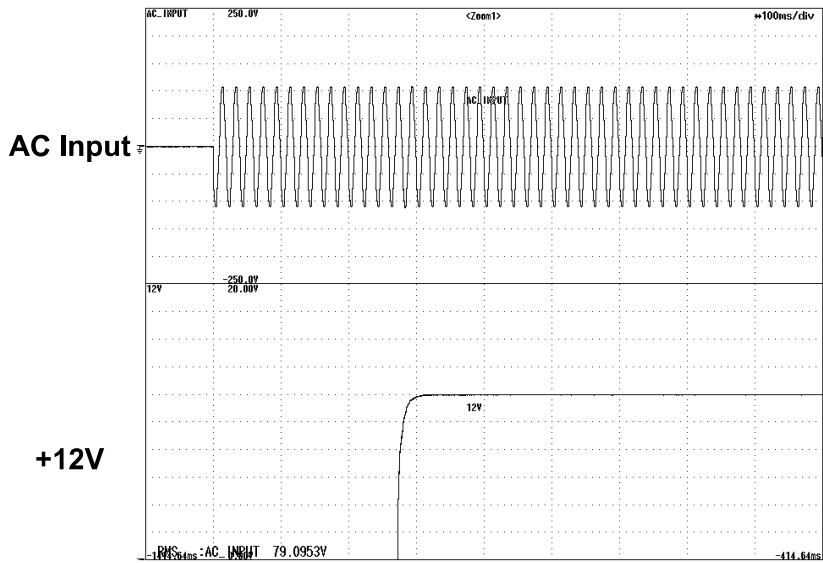
Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Start-Up Voltage	

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



Start-up Voltage: 77.1V AC

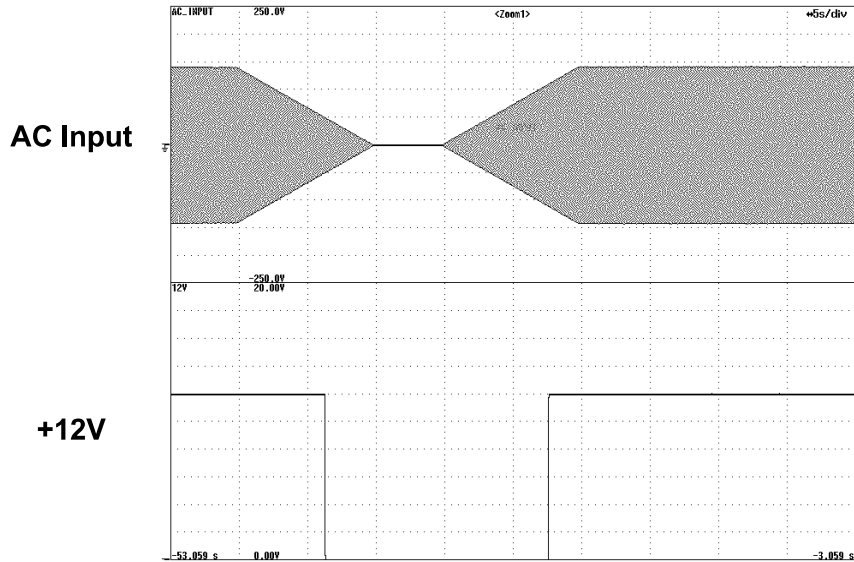
**Timebase Range: 100ms/div
Load: Minimum Load**



Start-up Voltage: 79.1V AC

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Input Voltage Sweep Up/Down	

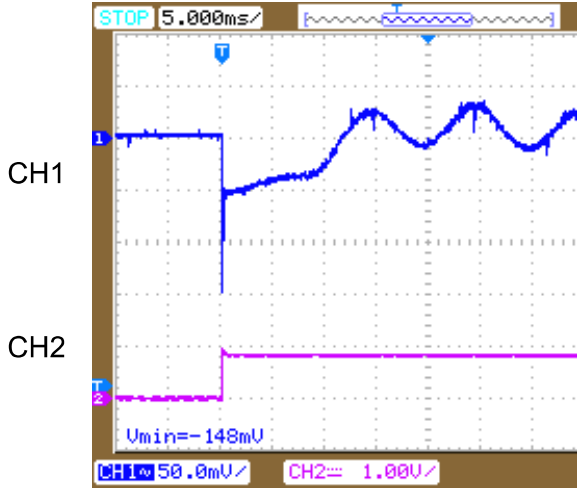
Timebase Range: 5s/div
Load: Rated Load



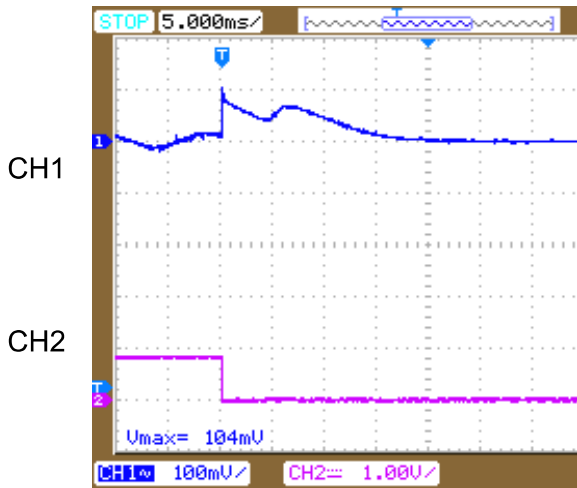
Sweep Rate: 10Vave/sec

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Dynamic Load Response	

+12V DC Output Transient Response Waveforms

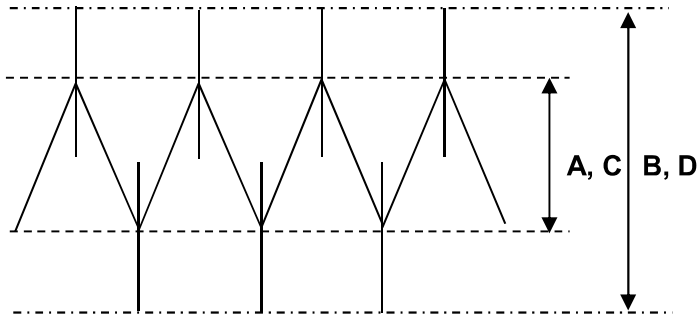


Waveform 1	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 50mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC
Note: Minimum load(0A) → Rated Load(8.4A)	



Waveform 2	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 100mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC
Note: Rated Load(8.4A) → Minimum load(0A)	

Model	mUZPT-120-12-JB0	Load: Rated Load
Item	Ripple / Noise Voltage	



at 100V AC

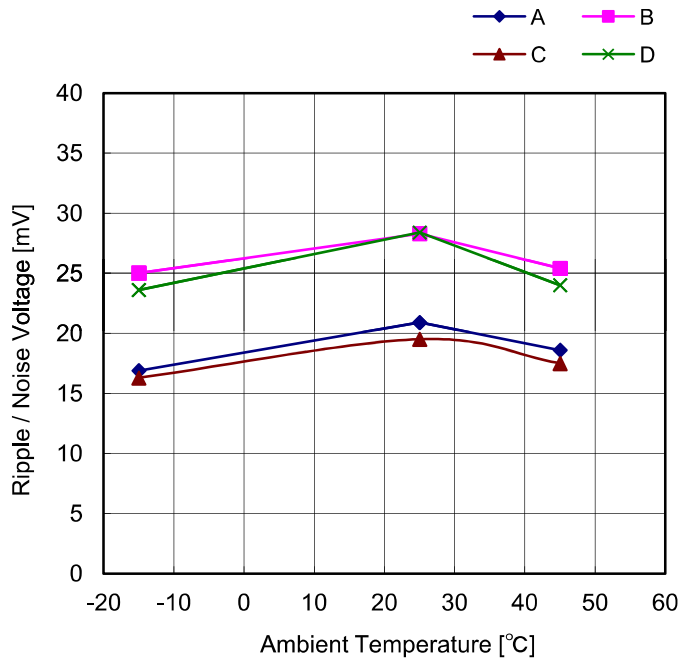
A: Ripple Voltage (mV_{P-P})

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

at 240V AC

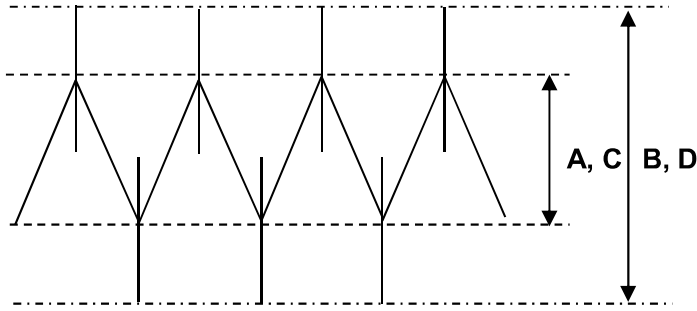
C: Ripple Voltage (mV_{P-P})

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



Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-15	16.9	25.0	16.3	23.6
25	20.9	28.3	19.5	28.4
45	18.6	25.4	17.5	24.0

Model	mUZPT-120-12-JB0	Temperature : 25°C
Item	Ripple / Noise Voltage	

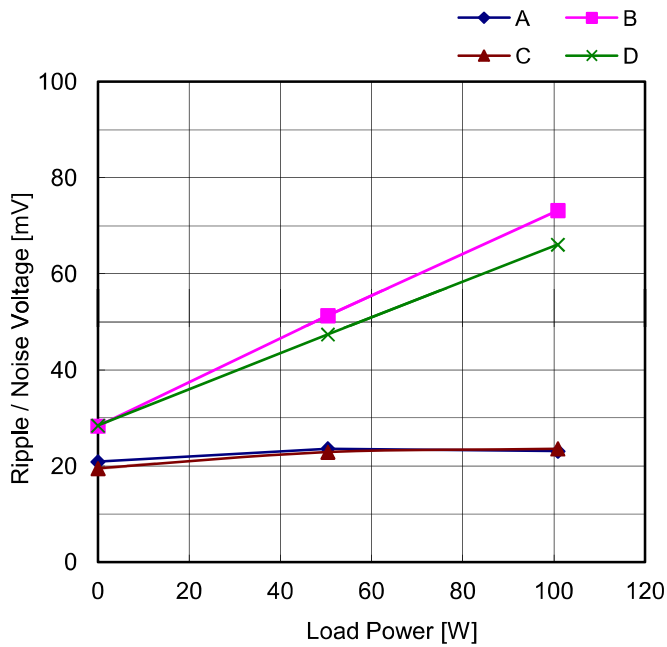


at 100V AC

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

at 240V AC

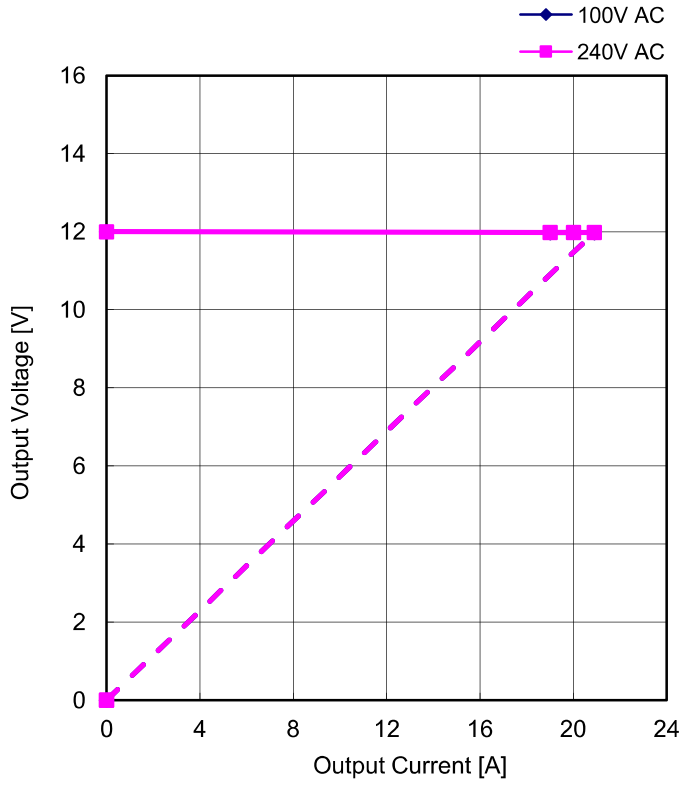
C: Ripple Voltage (mVP-P)
D: Noise Voltage (mVP-P)



Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
0	20.9	28.3	19.5	28.4
50.4	23.6	51.3	22.9	47.4
100.8	23.1	73.2	23.6	66.1

Model	mUZPT-120-12-JB0	Temperature: 25°C
Item	Over-Current Protection	

V-I Characteristics of 12V 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	12.00	0.00	12.00
19.00	11.98	19.00	11.98
20.00	11.98	20.00	11.98
20.89	11.98	20.89	11.98

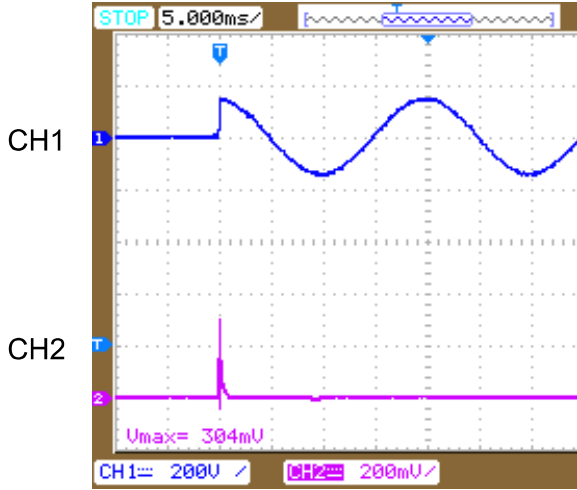
Model	mUZPT-120-12-JB0	Load: Minimum Load
Item	Over-Voltage Protection	

The graph plots Output Voltage [V] on the y-axis (ranging from 10.0 to 20.0) against Ambient Temperature [°C] on the x-axis (ranging from -20 to 80). Two data series are shown: 100V AC (blue line with diamond markers) and 240V AC (magenta line with square markers). The 240V AC series shows a nearly constant output voltage of approximately 15.1V across the temperature range. The 100V AC series is not clearly visible, likely overlapping with the 240V AC series or being constant at a lower value.

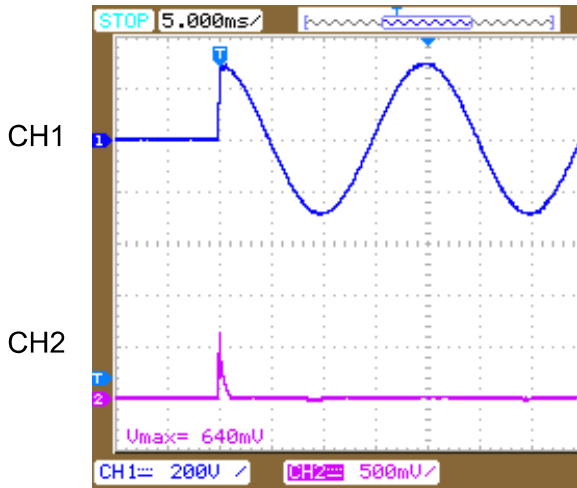
Ambient Temp. [°C]	Output Voltage [V]	
	100V AC	240V AC
-15	15.06	15.06
25	15.13	15.13
45	15.10	15.10
65	15.22	15.24

Model	mUZPT-120-12-JB0	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: 15.2A	



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: 32.0A	

Model	mUZPT-120-12-JB0	Load: Rated Load																		
Item	Leakage Current																			
		<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>0.07</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	0.07	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																			
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