


Test Data

Model Number: mUZPT-120-24-JB0

Model Name: DC POWER SUPPLY

INPUT: 85V – 264V AC, 50 / 60 Hz

OUTPUT: 24V 5A (8.4A_{peak})Minimum load : 0W
Rated load :120W
Peak output power: 201.6W

Approved by :  (QA manager)

Designed by : Kazuhiko Yamada (R&D engineer)

Tested by : Hiroyuki Watanabe (Evaluation test engineer)

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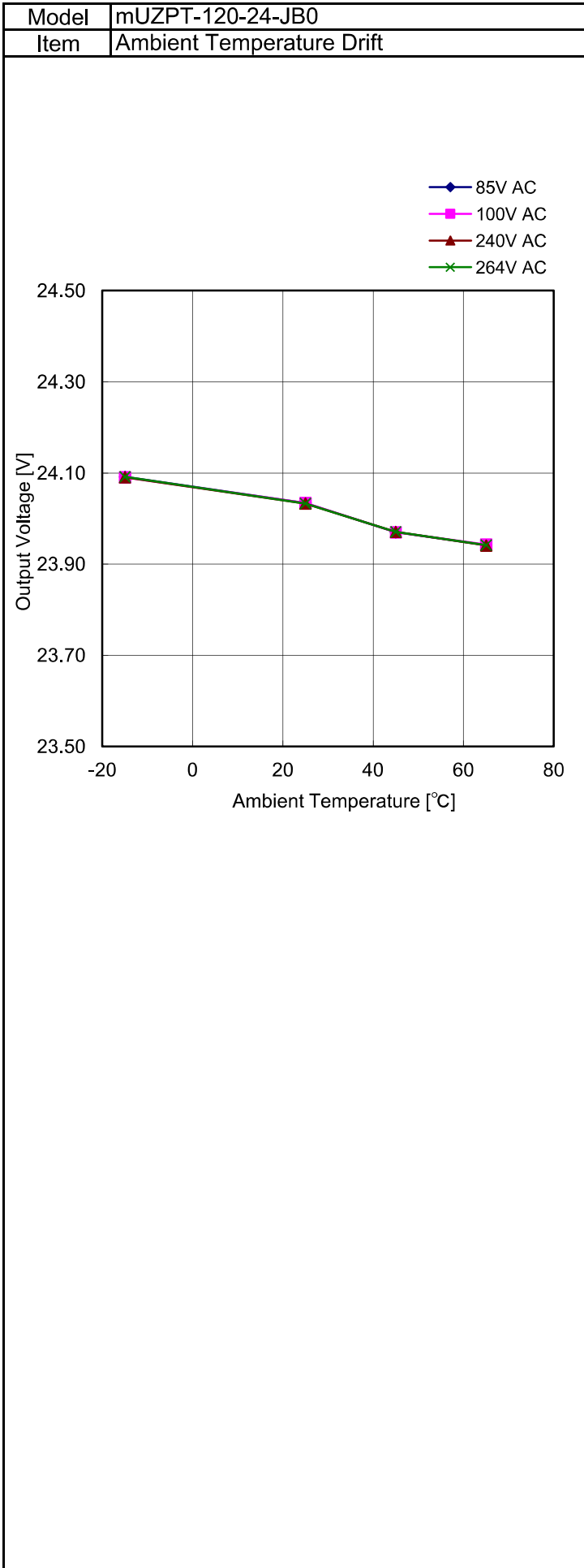
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<p>The graph plots Output Voltage [V] on the y-axis (ranging from 23.80 to 24.20) against Load Power [W] on the x-axis (ranging from 0 to 250). Four data series are shown: 85V AC (blue diamonds), 100V AC (magenta squares), 240V AC (red triangles), and 264V AC (green crosses). All series show a very slight downward trend as load power increases, maintaining an output voltage between 24.031V and 24.046V.</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>24.043</td> <td>24.044</td> <td>24.046</td> <td>24.045</td> </tr> <tr> <td>30.0</td> <td>24.033</td> <td>24.034</td> <td>24.033</td> <td>24.032</td> </tr> <tr> <td>60.0</td> <td>24.031</td> <td>24.033</td> <td>24.033</td> <td>24.034</td> </tr> <tr> <td>90.0</td> <td>24.032</td> <td>24.031</td> <td>24.032</td> <td>24.032</td> </tr> <tr> <td>120.0</td> <td>24.033</td> <td>24.033</td> <td>24.034</td> <td>24.034</td> </tr> <tr> <td>201.6</td> <td>24.031</td> <td>24.032</td> <td>24.031</td> <td>24.031</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">Load Condition</th> </tr> <tr> <th rowspan="2">Load Power [W]</th> <th>Load Current [A]</th> </tr> <tr> <th>24V</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>0.00</td> </tr> <tr> <td>30.0</td> <td>1.25</td> </tr> <tr> <td>60.0</td> <td>2.50</td> </tr> <tr> <td>90.0</td> <td>3.75</td> </tr> <tr> <td>120.0</td> <td>5.00</td> </tr> <tr> <td>201.6</td> <td>8.40</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	24.043	24.044	24.046	24.045	30.0	24.033	24.034	24.033	24.032	60.0	24.031	24.033	24.033	24.034	90.0	24.032	24.031	24.032	24.032	120.0	24.033	24.033	24.034	24.034	201.6	24.031	24.032	24.031	24.031	Load Condition		Load Power [W]	Load Current [A]	24V	0.0	0.00	30.0	1.25	60.0	2.50	90.0	3.75	120.0	5.00	201.6	8.40
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Ambient Temp. (°C)	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
-15	24.092	24.091	24.091	24.092
25	24.034	24.034	24.033	24.033
45	23.970	23.970	23.971	23.971
65	23.942	23.943	23.941	23.942

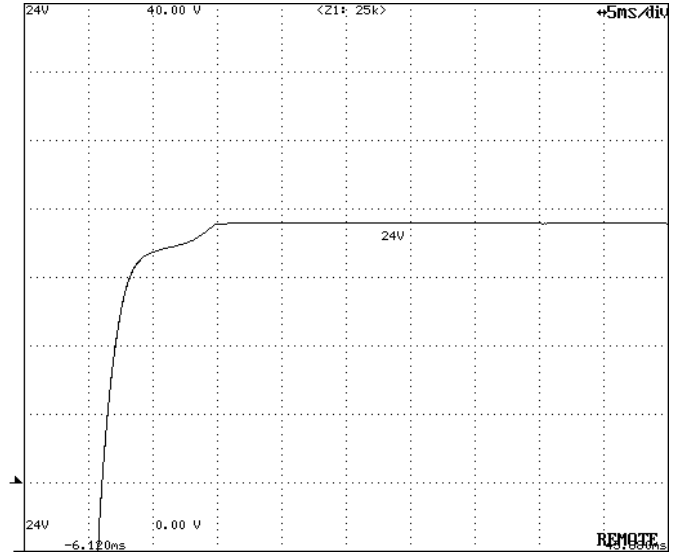
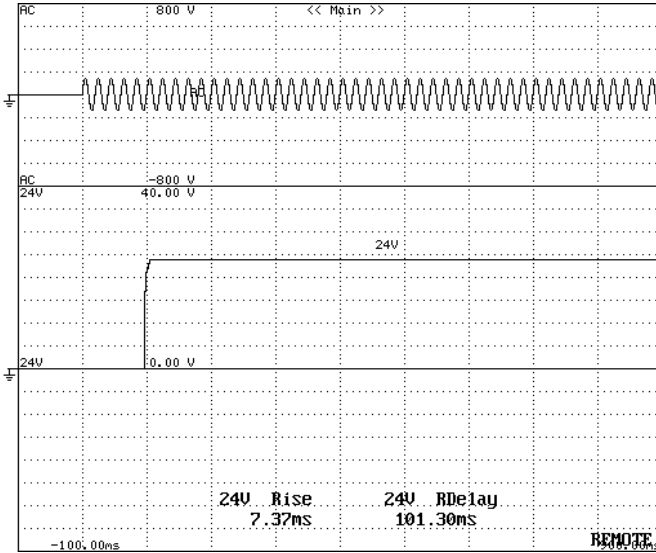
Load Condition	
Ambient Temp. (°C)	Load Current [A]
	24V
-15	5.00
25	5.00
45	5.00
65	3.33

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Output Rise Characteristics (at AC Power ON)	

Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div

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



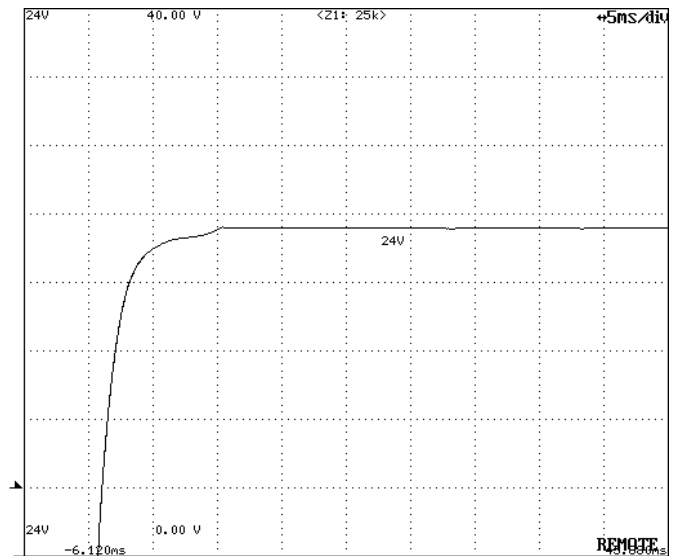
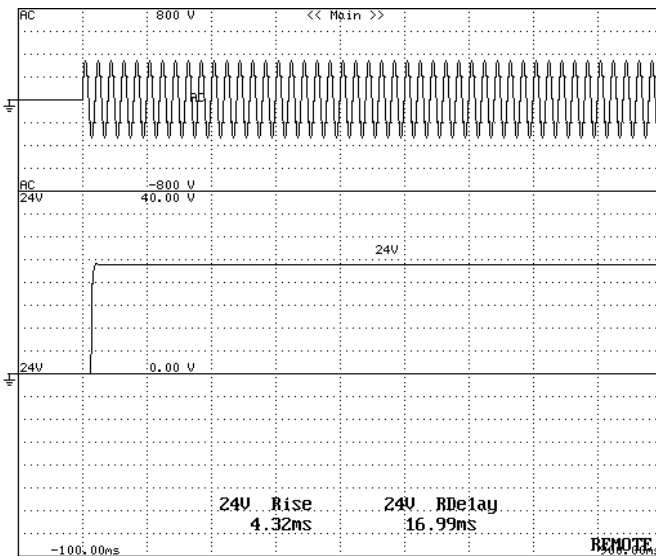
All Output Start-up Sequence

24V DC Output Rise Characteristics

Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div

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



All Output Start-up Sequence

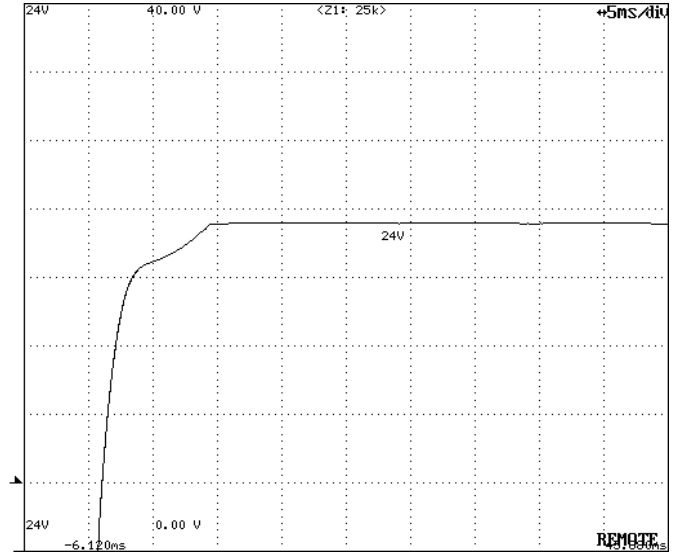
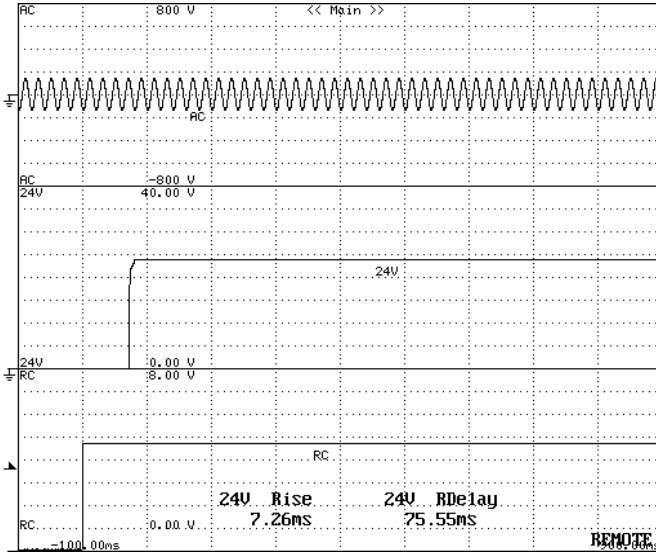
24V DC Output Rise Characteristics

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Output Rise Characteristics (at Remote ON)	

Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div

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



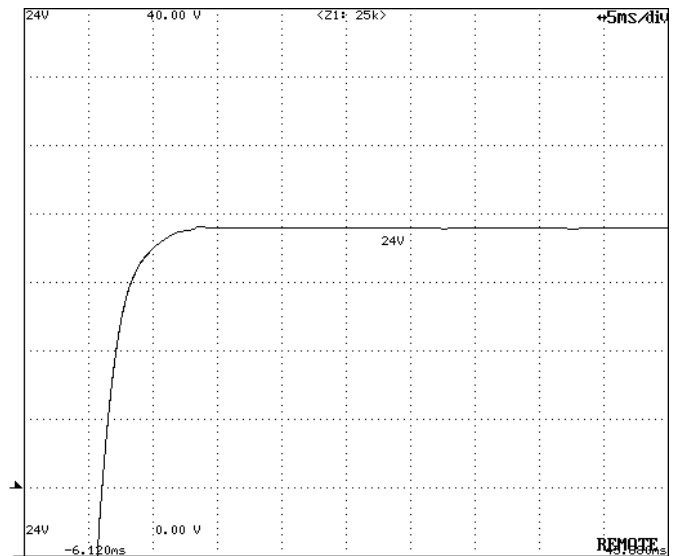
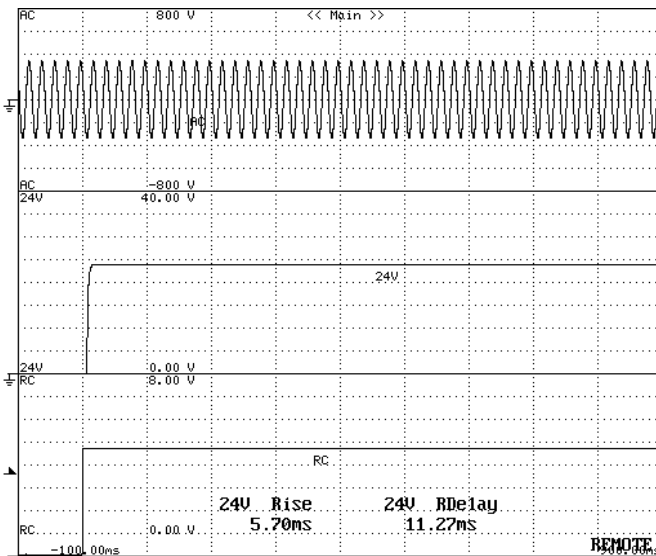
All Output Start-up Sequence

24V DC Output Rise Characteristics

Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div

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



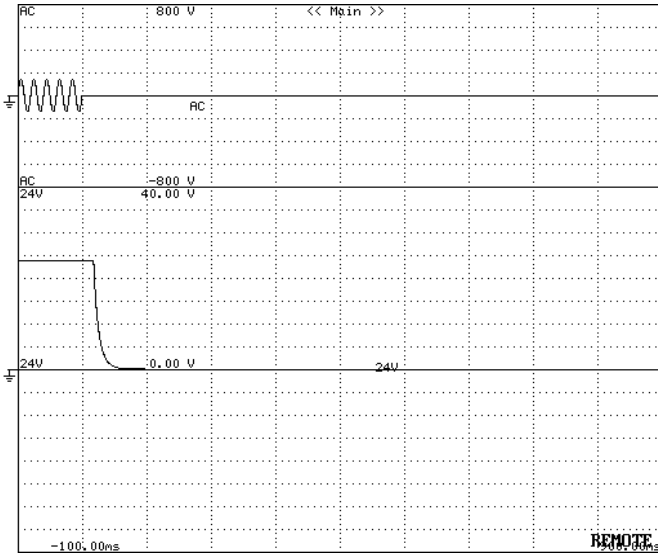
All Output Start-up Sequence

24V DC Output Rise Characteristics

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Output Fall Characteristics (at AC Power OFF)	

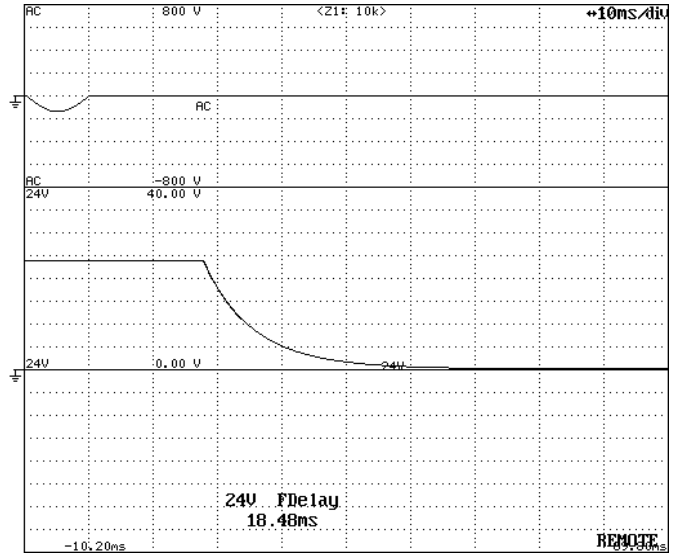
Input: 100V AC
Load: Rated Load

Timebase Range: 100ms/div



Output Fall Characteristics

Timebase Range: 10ms/div



Output Fall Characteristics (magnification)

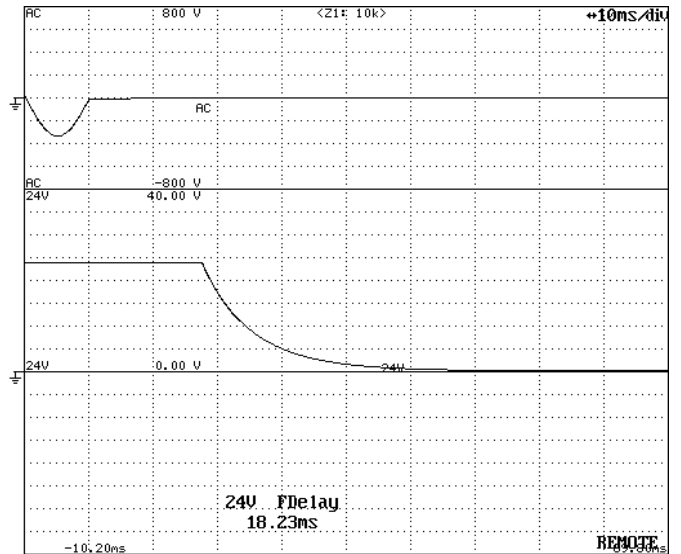
Input: 240V AC
Load: Rated Load

Timebase Range: 100ms/div



Output Fall Characteristics

Timebase Range: 10ms/div

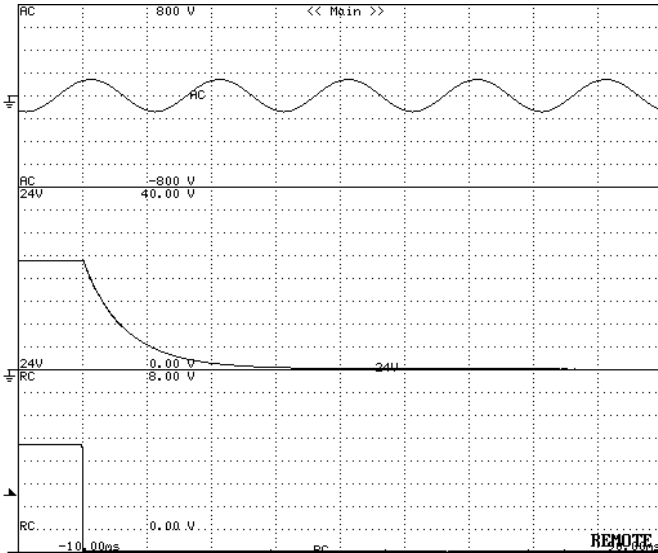


Output Fall Characteristics (magnification)

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Output Fall Characteristics (at Remote OFF)	

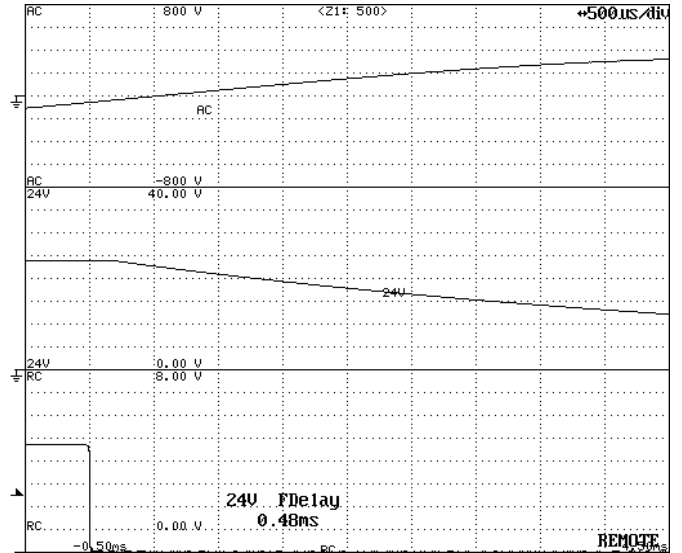
Input: 100V AC
Load: Rated Load

Timebase Range: 10ms/div



Output Fall Characteristics

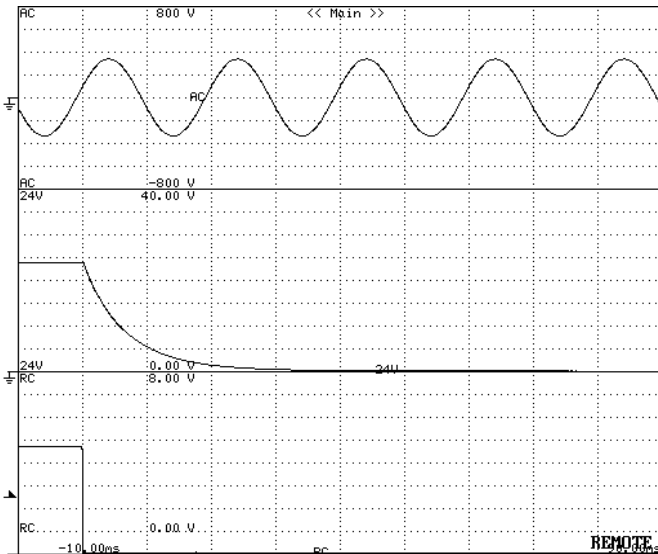
Timebase Range: 500µs/div



Output Fall Characteristics (magnification)

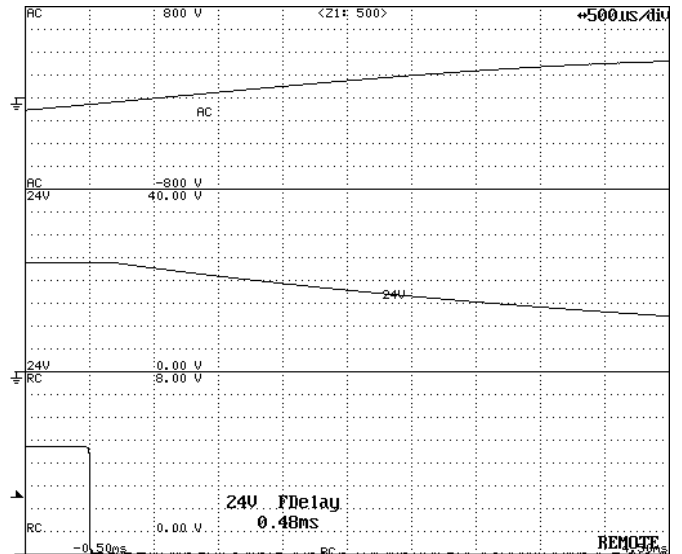
Input: 240V AC
Load: Rated Load

Timebase Range: 10ms/div



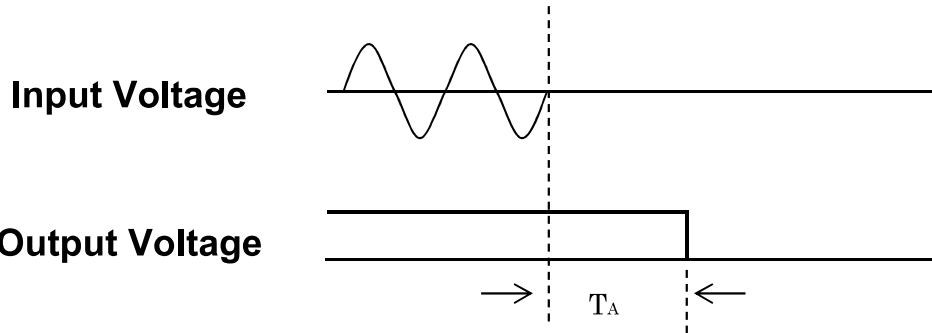
Output Fall Characteristics

Timebase Range: 500µs/div

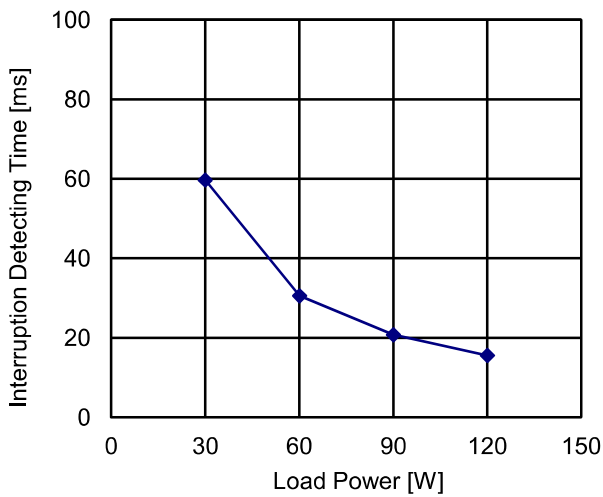


Output Fall Characteristics (magnification)

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Instantaneous Interruption Compensation (by Load Power)	

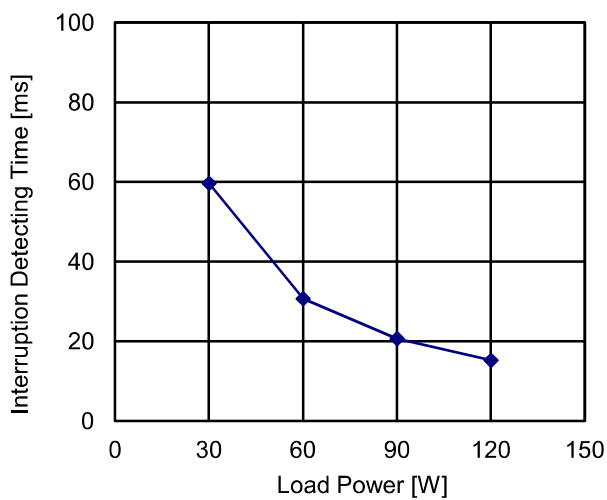


Input Voltage:100V AC



Load Power [W]	Interruption Detecting Time [ms]
	Output Voltage
	T_A
30.0	59.7
60.0	30.6
90.0	20.8
120.0	15.6

Input Voltage:240V AC



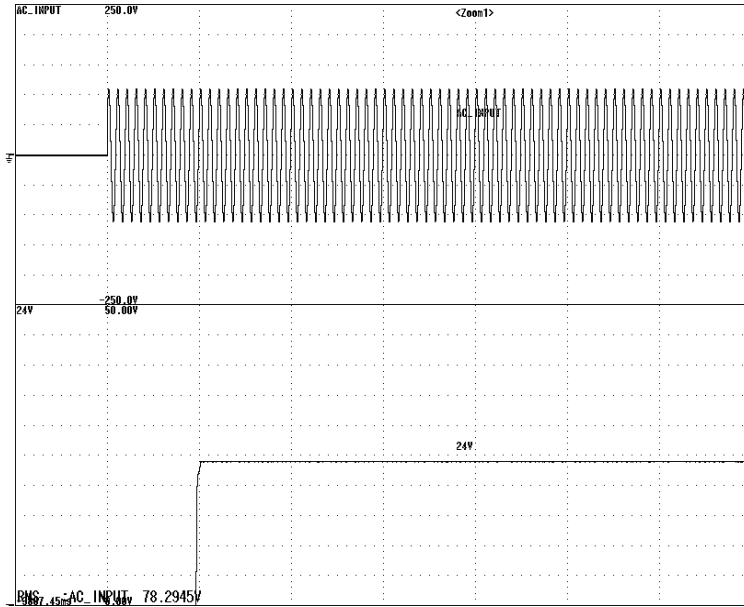
Load Power [W]	Interruption Detecting Time [ms]
	Output Voltage
	T_A
30.0	59.7
60.0	30.7
90.0	20.7
120.0	15.3

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Start-Up Voltage	

Timebase Range: 200ms/div
Load: Rated Load

AC Input

+24V

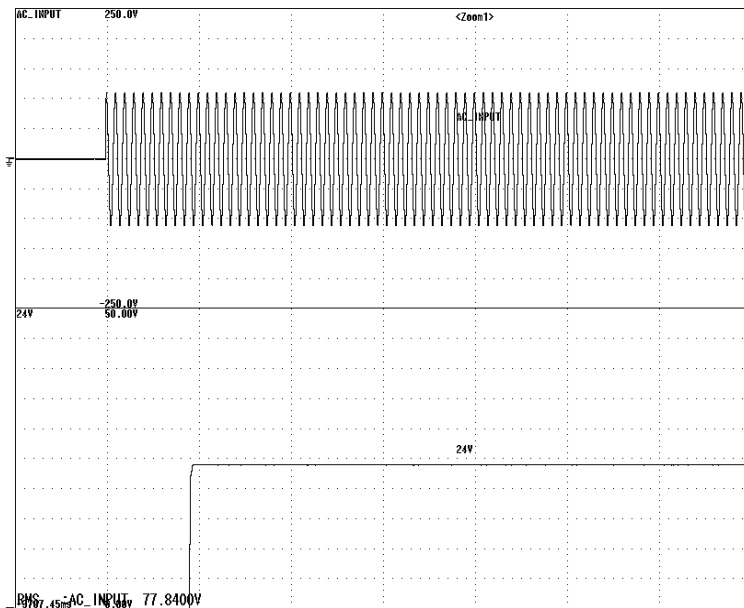


Start-up Voltage: 78.3V AC

Timebase Range: 200ms/div
Load: Minimum Load

AC Input

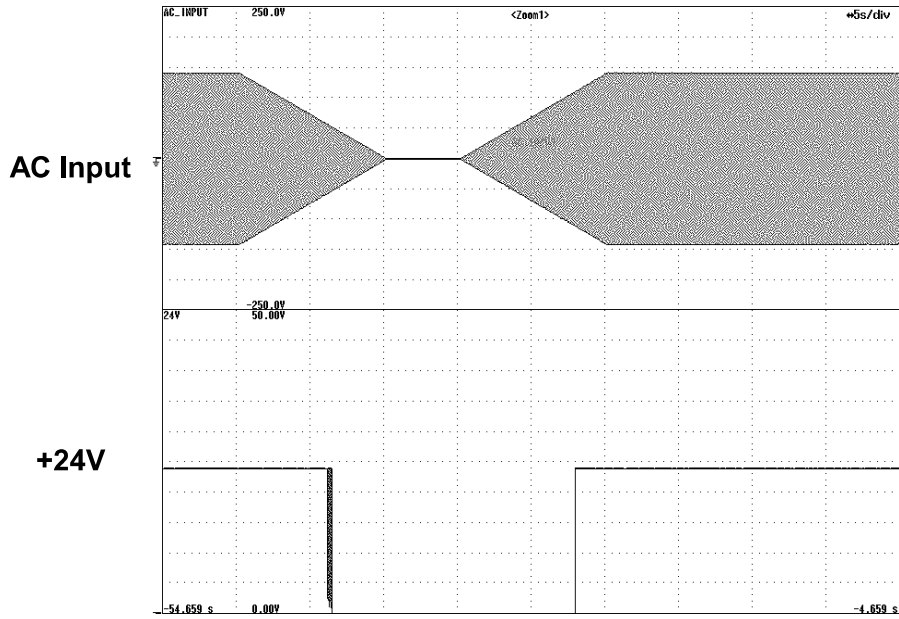
+24V



Start-up Voltage: 77.8V AC

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Input Voltage Sweep Up/Down	

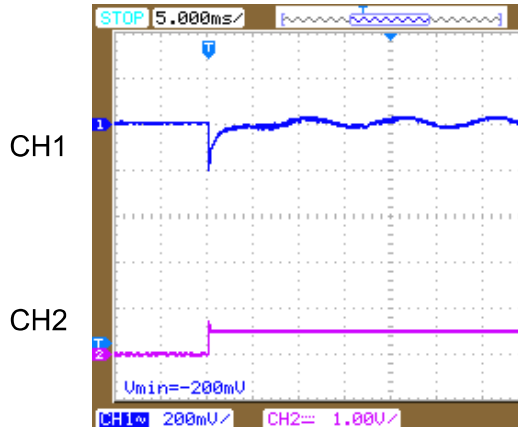
Timebase Range: 5s/div
Load: Rated Load



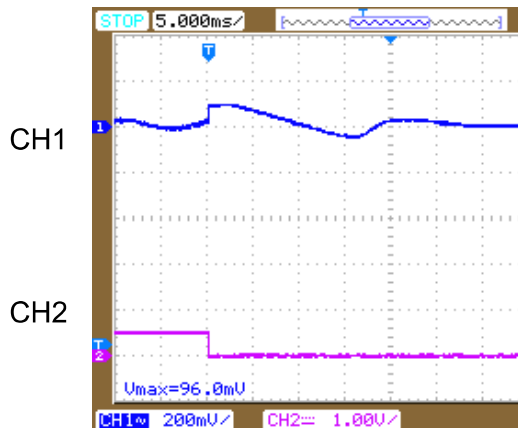
Sweep Rate: 10Vave/sec

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Dynamic Load Response	

+24V DC Output Transient Response Waveforms

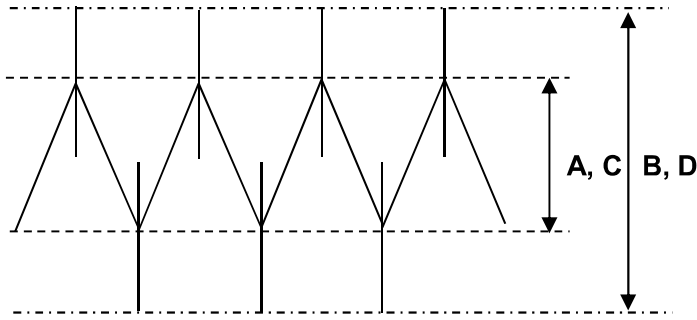


Waveform 1	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 200mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC
Note: Minimum load(0A) → Rated Load(5A)	



Waveform 2	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 200mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC
Note: Rated Load(5A) → Minimum load(0A)	

Model	mUZPT-120-24-JB0	Load: Rated Load
Item	Ripple / Noise Voltage	



at 100V AC

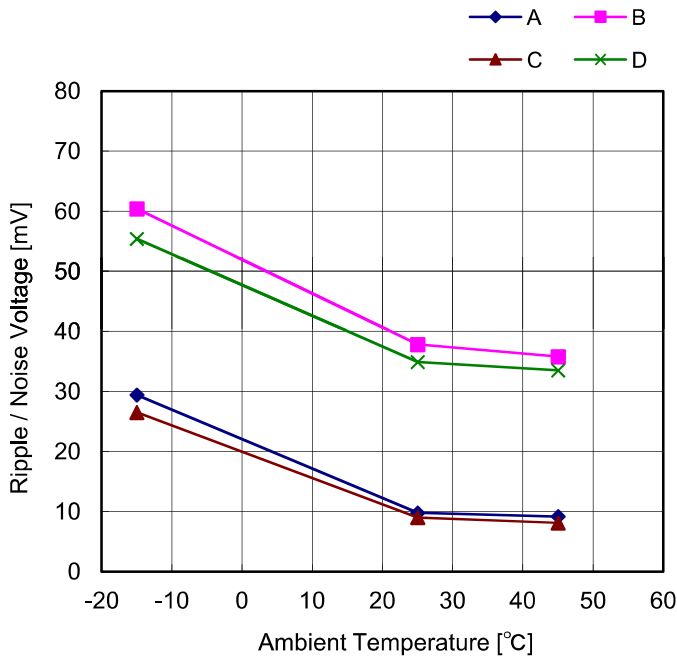
A: Ripple Voltage (mV_{P-P})

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

at 240V AC

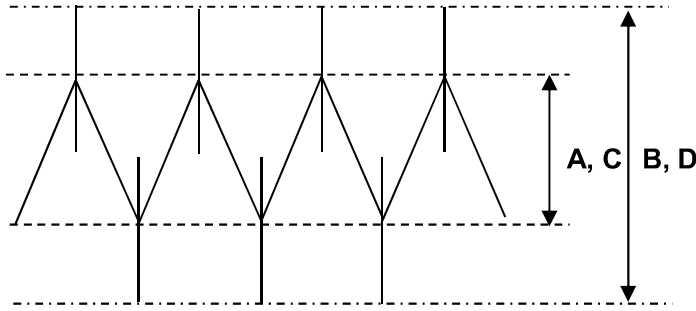
C: Ripple Voltage (mV_{P-P})

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



Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-15	29.4	60.4	26.5	55.4
25	9.8	37.8	9.0	34.9
45	9.2	35.8	8.1	33.5

Model	mUZPT-120-24-JB0	Temperature : 25°C
Item	Ripple / Noise Voltage	

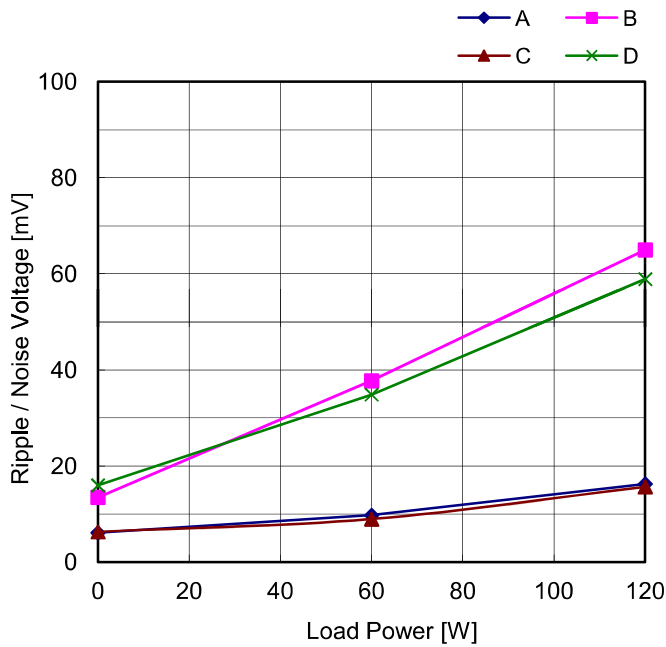


at 100V AC

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

at 240V AC

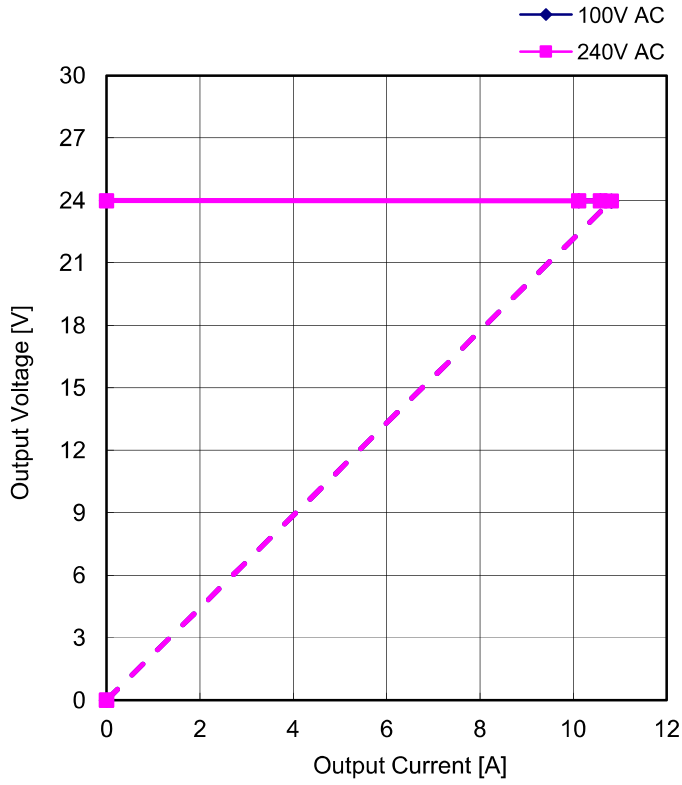
C: Ripple Voltage (mVP-P)
D: Noise Voltage (mVP-P)



Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
0	6.1	13.5	6.3	16.0
60.0	9.8	37.8	9.0	34.9
120.0	16.3	65.0	15.7	58.9

Model	mUZPT-120-24-JB0	Temperature: 25°C
Item	Over-Current Protection	

V-I Characteristics of 24V O.C.P

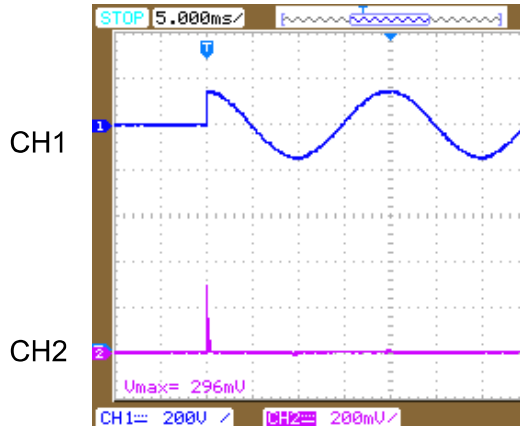


Input Voltage: 100V AC		Input Voltage: 240V AC	
Output Current [A]	Output Voltage [V]	Output Current [A]	Output Voltage [V]
0.00	23.99	0.00	23.99
10.11	23.99	10.11	23.98
10.58	23.98	10.58	23.98
10.82	23.98	10.82	23.98

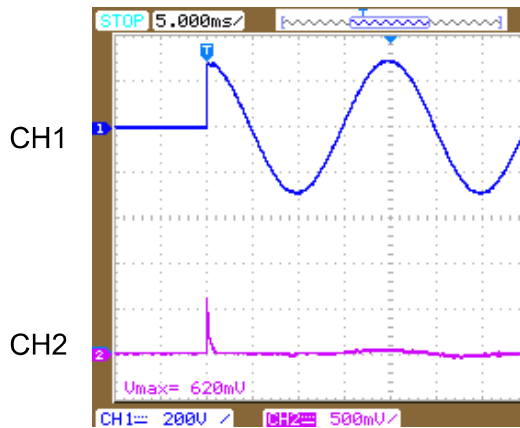
Model	mUZPT-120-24-JB0	Load: Minimum Load																	
Item	Over-Voltage Protection																		
<p>Legend: ◆ 100V AC ■ 240V AC</p>		<table border="1"> <thead> <tr> <th rowspan="2">Ambient Temp. [°C]</th> <th colspan="2">Output Voltage [V]</th> </tr> <tr> <th>100V AC</th> <th>240V AC</th> </tr> </thead> <tbody> <tr> <td>-15</td> <td>31.43</td> <td>31.40</td> </tr> <tr> <td>25</td> <td>32.08</td> <td>32.08</td> </tr> <tr> <td>45</td> <td>32.47</td> <td>32.43</td> </tr> <tr> <td>65</td> <td>32.81</td> <td>32.85</td> </tr> </tbody> </table>	Ambient Temp. [°C]	Output Voltage [V]		100V AC	240V AC	-15	31.43	31.40	25	32.08	32.08	45	32.47	32.43	65	32.81	32.85
Ambient Temp. [°C]	Output Voltage [V]																		
	100V AC	240V AC																	
-15	31.43	31.40																	
25	32.08	32.08																	
45	32.47	32.43																	
65	32.81	32.85																	

Model	mUZPT-120-24-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: 14.8A	



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: 31.0A	

Model	mUZPT-120-24-JB0	Load: Rated Load																		
Item	Leakage Current																			
<p>The graph plots Leakage Current [mA] on the vertical axis (0 to 1.0) against AC Input Voltage [V] on the horizontal 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>0.07</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																			
176	0.06																			
200	0.07																			
220	0.07																			
240	0.08																			
264	0.09																			