

# Test Data

Model Number: PCFX-220P-X2S

Model Name: DC POWER SUPPLY

INPUT: 85V – 264V AC, 50 / 60 Hz

OUTPUT:	3.3 V	8A (12 A peak)
	5 V	8A (12 A peak)
	12 V	8A (12 A peak)
	-12 V	0.3A
	5VSB	1A (2 A peak)

Minimum load : 6W

Rated load :171W

Maximum continuous output power :171W

Peak output power: 220W

Approved by : Hatsumori Tsukaguchi (QA manager)

Designed by : Y. Matsubara (R&D engineer)

Tested by : Kohei Sawada (Evaluation test engineer)

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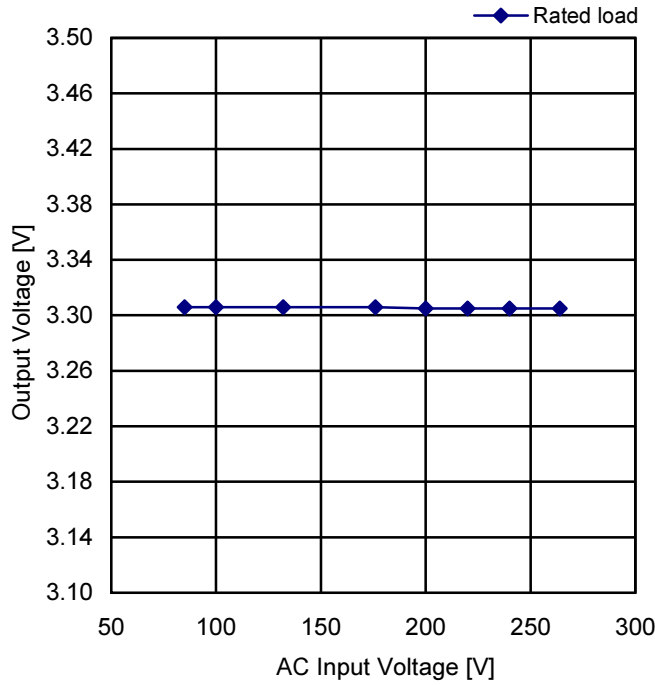
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171.0	99.4	99.3	94.7	92.9																												

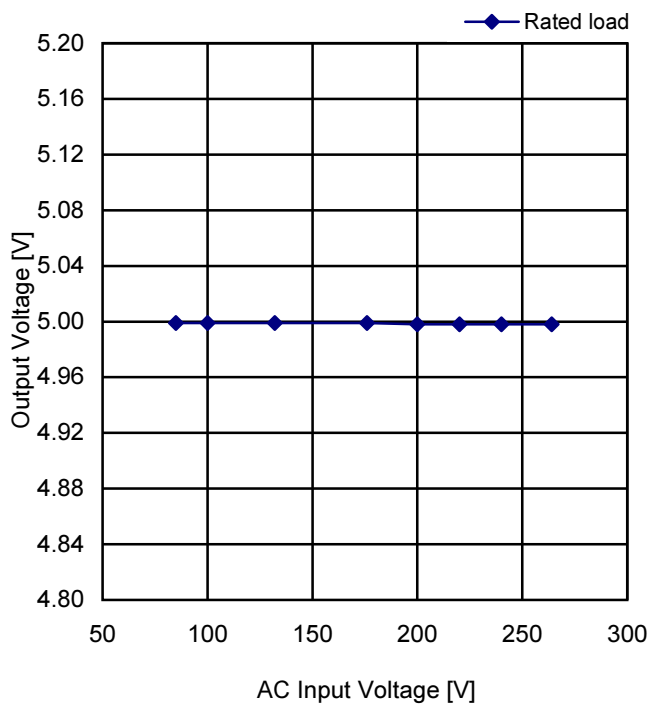
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Line Regulation	

## 3.3V/8A



AC Input Voltage [V]	Output Voltage [V]
85	3.306
100	3.306
132	3.306
176	3.306
200	3.305
220	3.305
240	3.305
264	3.305

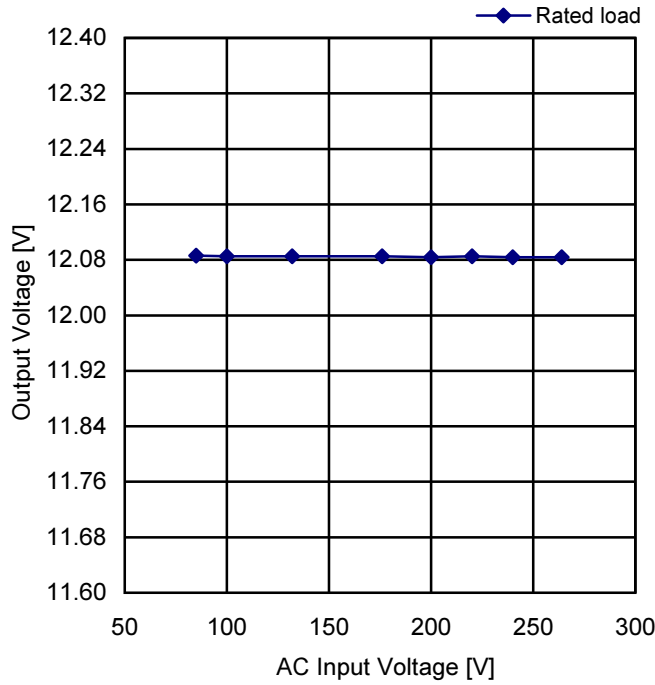
## 5V/8A



AC Input Voltage [V]	Output Voltage [V]
85	4.999
100	4.999
132	4.999
176	4.999
200	4.998
220	4.998
240	4.998
264	4.998

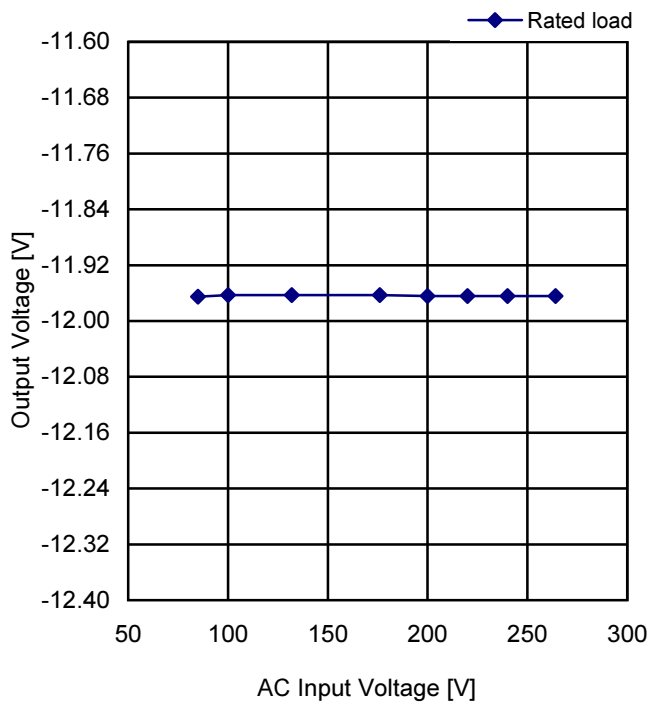
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Line Regulation	

## 12V/8A



AC Input Voltage [V]	Output Voltage [V]
85	12.086
100	12.085
132	12.085
176	12.085
200	12.084
220	12.085
240	12.084
264	12.084

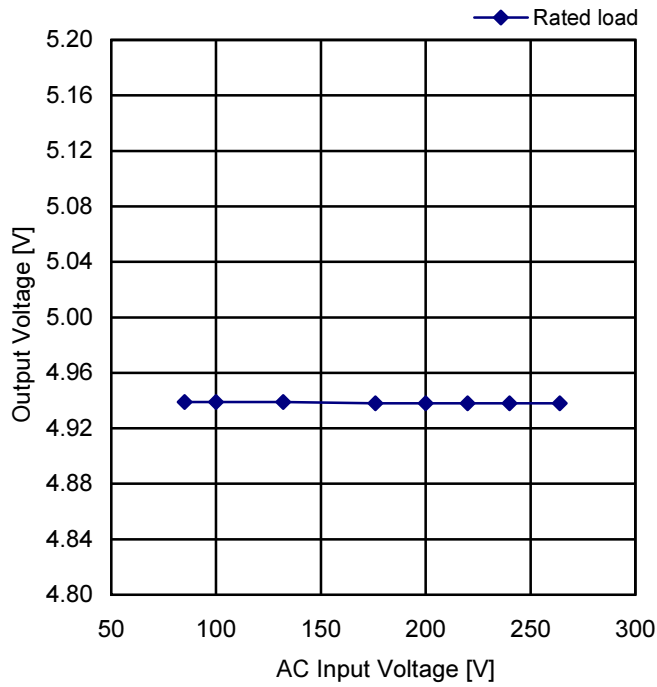
## -12V/0.3A



AC Input Voltage [V]	Output Voltage [V]
85	-11.965
100	-11.963
132	-11.963
176	-11.963
200	-11.964
220	-11.964
240	-11.964
264	-11.964

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Line Regulation	

## 5VSB/1A

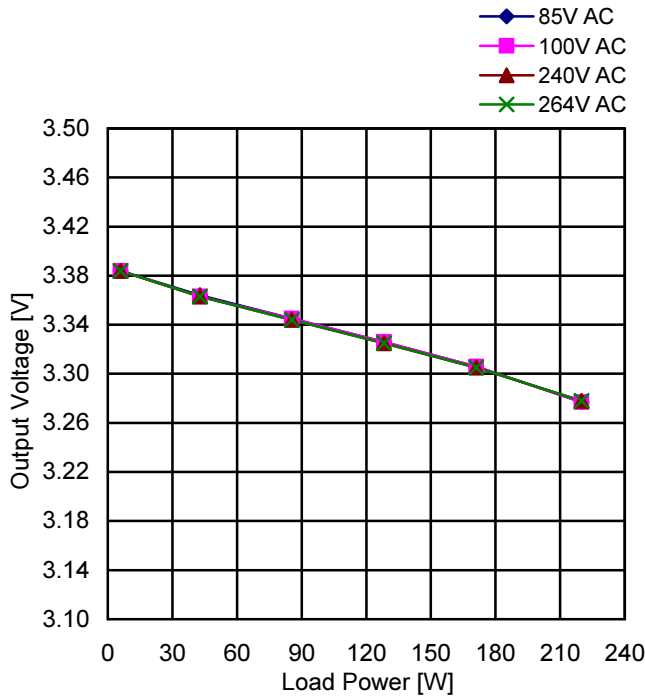


AC Input Voltage [V]	Output Voltage [V]
85	4.939
100	4.939
132	4.939
176	4.938
200	4.938
220	4.938
240	4.938
264	4.938



Model	PCFX-220P-X2S	Temperature: 25°C
Item	Load Regulation	

### 3.3V

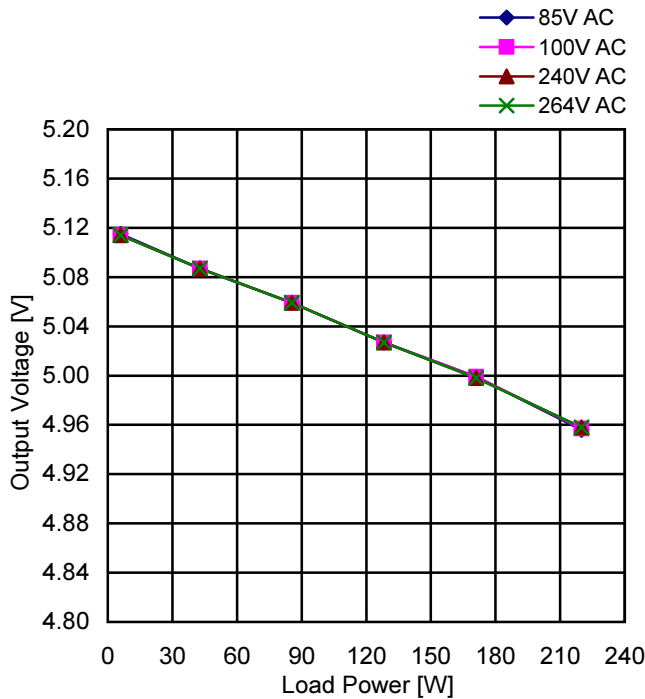


Load Power [W]	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
6.0	3.384	3.384	3.384	3.384
42.75	3.364	3.363	3.363	3.363
85.5	3.345	3.345	3.344	3.344
128.25	3.326	3.326	3.325	3.325
171.0	3.306	3.306	3.305	3.305
220.0	3.277	3.277	3.278	3.278

### Load Condition

Load Power [W]	Load Current [A]				
	3.3V	5V	12V	-12V	5VSB
6.0	0	0	0.5	0	0
42.75	2.0	2.0	2.0	0.075	0.25
85.5	4.0	4.0	4.0	0.15	0.5
128.25	6.0	6.0	6.0	0.225	0.75
171.0	8.0	8.0	8.0	0.3	1.0
220.0	12.0	9.0	10.15	0.3	2.0

### 5V



Load Power [W]	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
6.0	5.115	5.114	5.114	5.114
42.75	5.087	5.087	5.087	5.087
85.5	5.059	5.059	5.059	5.059
128.25	5.027	5.027	5.027	5.027
171.0	4.999	4.999	4.998	4.998
220.0	4.956	4.957	4.958	4.958

### Load Condition

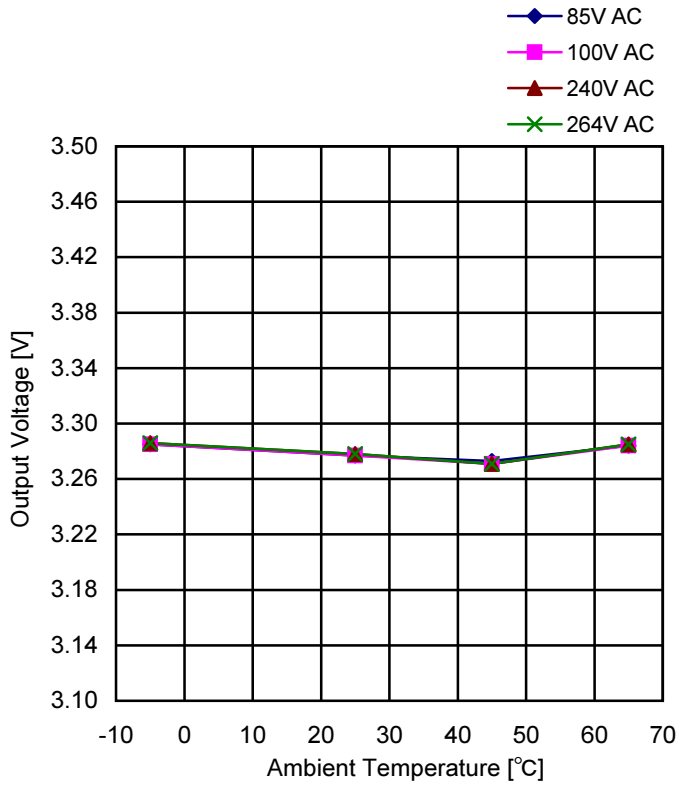
Load Power [W]	Load Current [A]				
	3.3V	5V	12V	-12V	5VSB
6.0	0	0	0.5	0	0
42.75	2.0	2.0	2.0	0.075	0.25
85.5	4.0	4.0	4.0	0.15	0.5
128.25	6.0	6.0	6.0	0.225	0.75
171.0	8.0	8.0	8.0	0.3	1.0
220.0	8.0	12.0	10.00	0.3	2.0

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Load Power [W]	Load Current [A]																																																
	3.3V	5V	12V	-12V	5VSB																																												
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Load Power [W]	Load Current [A]																																																
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Model	PCFX-220P-X2S	Temperature: 25°C																																																		
Item	Load Regulation																																																			
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		<h3>Load Condition</h3> <table border="1"> <thead> <tr> <th rowspan="2">Load Power [W]</th> <th colspan="5">Load Current [A]</th> </tr> <tr> <th>3.3V</th> <th>5V</th> <th>12V</th> <th>-12V</th> <th>5VSB</th> </tr> </thead> <tbody> <tr> <td>6.0</td> <td>0</td> <td>0</td> <td>0.5</td> <td>0</td> <td>0</td> </tr> <tr> <td>42.75</td> <td>2.0</td> <td>2.0</td> <td>2.0</td> <td>0.075</td> <td>0.25</td> </tr> <tr> <td>85.5</td> <td>4.0</td> <td>4.0</td> <td>4.0</td> <td>0.15</td> <td>0.5</td> </tr> <tr> <td>128.25</td> <td>6.0</td> <td>6.0</td> <td>6.0</td> <td>0.225</td> <td>0.75</td> </tr> <tr> <td>171.0</td> <td>8.0</td> <td>8.0</td> <td>8.0</td> <td>0.3</td> <td>1.0</td> </tr> <tr> <td>220.0</td> <td>12.0</td> <td>9.0</td> <td>10.15</td> <td>0.3</td> <td>2.0</td> </tr> </tbody> </table>				Load Power [W]	Load Current [A]					3.3V	5V	12V	-12V	5VSB	6.0	0	0	0.5	0	0	42.75	2.0	2.0	2.0	0.075	0.25	85.5	4.0	4.0	4.0	0.15	0.5	128.25	6.0	6.0	6.0	0.225	0.75	171.0	8.0	8.0	8.0	0.3	1.0	220.0	12.0	9.0	10.15	0.3	2.0
Load Power [W]	Load Current [A]																																																			
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220.0	12.0	9.0	10.15	0.3	2.0																																															

Model	PCFX-220P-X2S
Item	Ambient Temperature Drift

### 3.3V

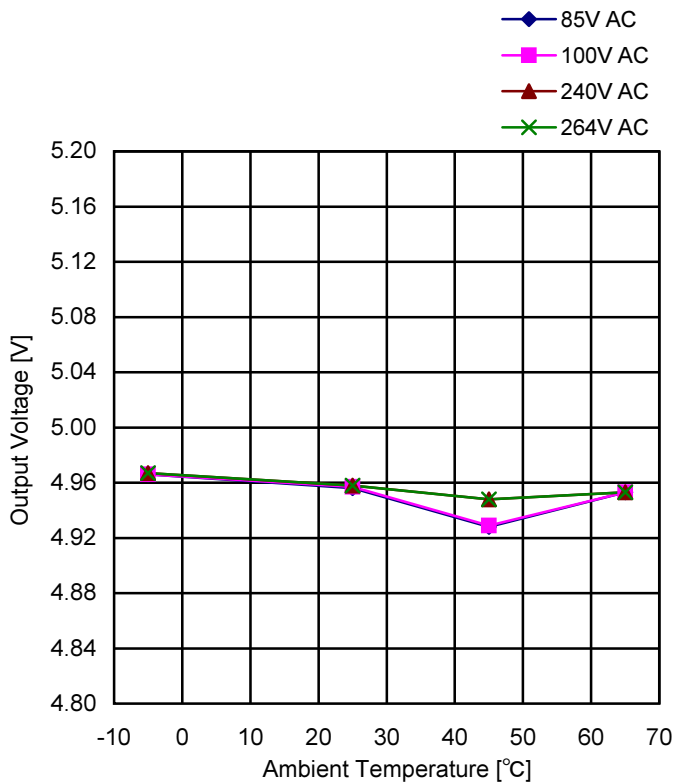


Ambient Temp. (°C)	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
-5	3.285	3.285	3.286	3.286
25	3.277	3.277	3.278	3.278
45	3.273	3.271	3.271	3.271
65	3.284	3.284	3.285	3.285

#### Load Condition

Ambient Temp. (°C)	Load Current [A]
	3.3V
-5	8.00
25	8.00
45	8.00
65	6.40

### 5V



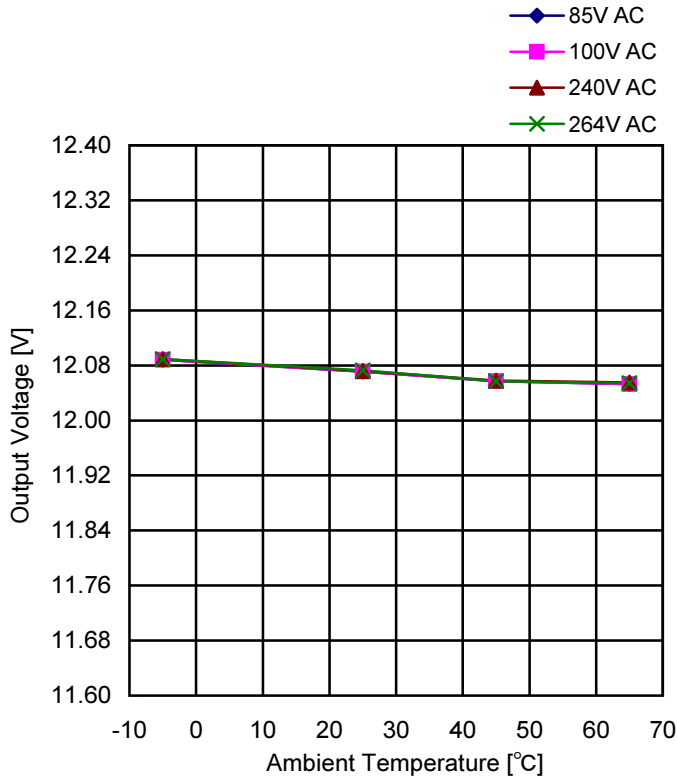
Ambient Temp. (°C)	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
-5	4.966	4.966	4.967	4.967
25	4.956	4.957	4.958	4.958
45	4.928	4.929	4.948	4.948
65	4.953	4.953	4.953	4.953

#### Load Condition

Ambient Temp. (°C)	Load Current [A]
	5V
-5	8.00
25	8.00
45	8.00
65	6.40

Model	PCFX-220P-X2S
Item	Ambient Temperature Drift

## 12V

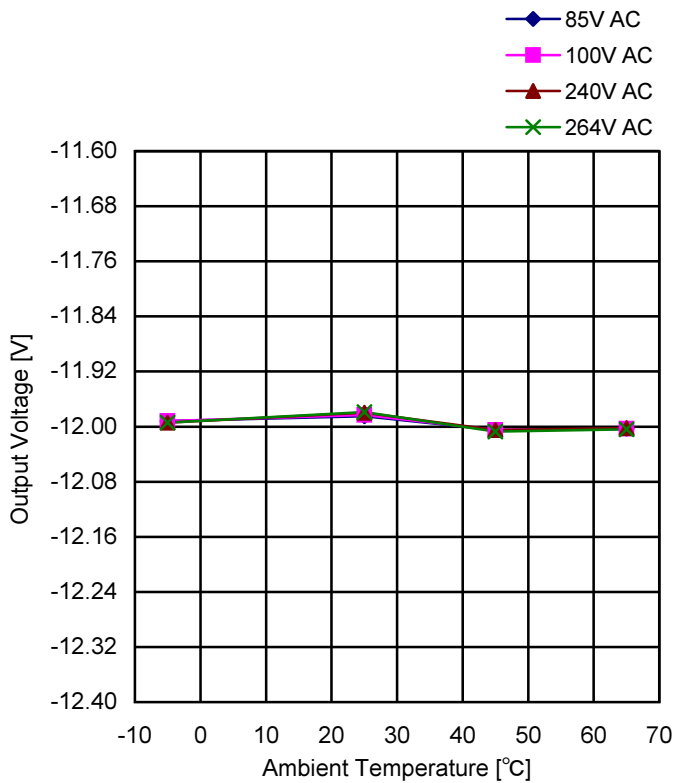


Ambient Temp. (°C)	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
-5	12.088	12.088	12.089	12.089
25	12.071	12.071	12.072	12.073
45	12.057	12.057	12.058	12.057
65	12.053	12.053	12.055	12.054

### Load Condition

Ambient Temp. (°C)	Load Current [A]
	12V
-5	8.00
25	8.00
45	8.00
65	6.40

## -12V



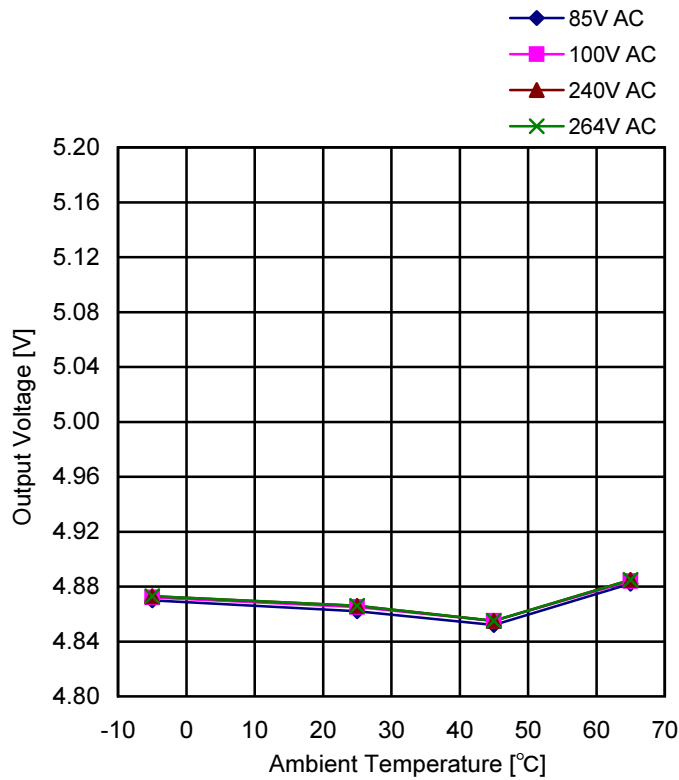
Ambient Temp. (°C)	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
-5	-11.992	-11.992	-11.994	-11.994
25	-11.985	-11.983	-11.980	-11.979
45	-12.005	-12.005	-12.005	-12.007
65	-12.003	-12.003	-12.002	-12.004

### Load Condition

Ambient Temp. (°C)	Load Current [A]
	-12V
-5	0.30
25	0.30
45	0.30
65	0.24

Model	PCFX-220P-X2S
Item	Ambient Temperature Drift

## 5VSB



Ambient Temp. (°C)	Output Voltage [V]			
	Input Voltage 85V AC	Input Voltage 100V AC	Input Voltage 240V AC	Input Voltage 264V AC
-5	4.870	4.872	4.873	4.873
25	4.862	4.865	4.866	4.866
45	4.852	4.855	4.855	4.855
65	4.882	4.884	4.885	4.885

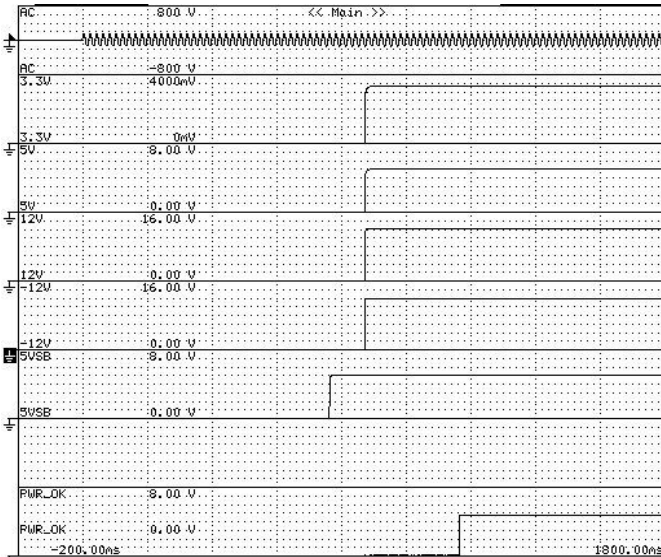
Ambient Temp. (°C)	Load Condition
	Load Current [A]
	5VSB
-5	1.00
25	1.00
45	1.00
65	0.80

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Output Rise Characteristics (at AC Power ON)	

Input: 100V AC  
Load: Rated Load

Timebase Range: 200ms/div

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



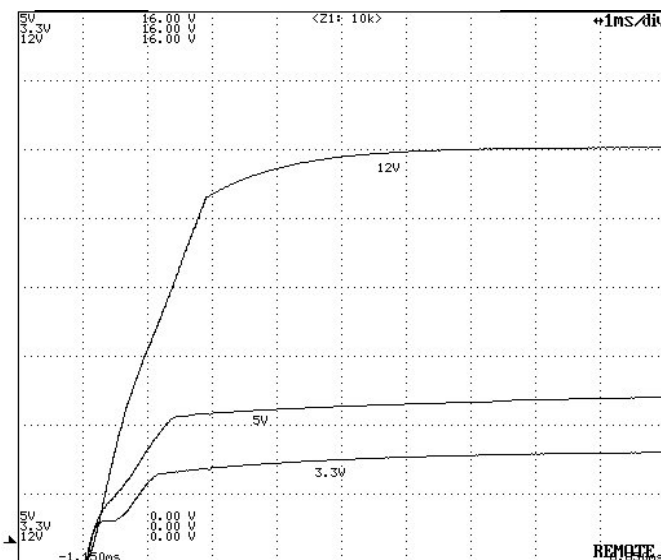
All Output Start-up Sequence



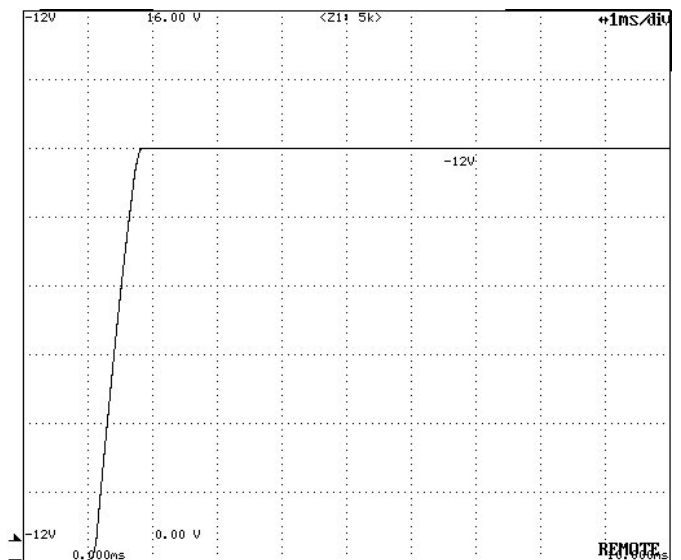
5VSB DC Output Rise Characteristics

Vertical Sensitivity: 2V/div  
Timebase Range: 1ms/div

Vertical Sensitivity: 2V/div  
Timebase Range: 1ms/div



DC Output Rise Characteristics



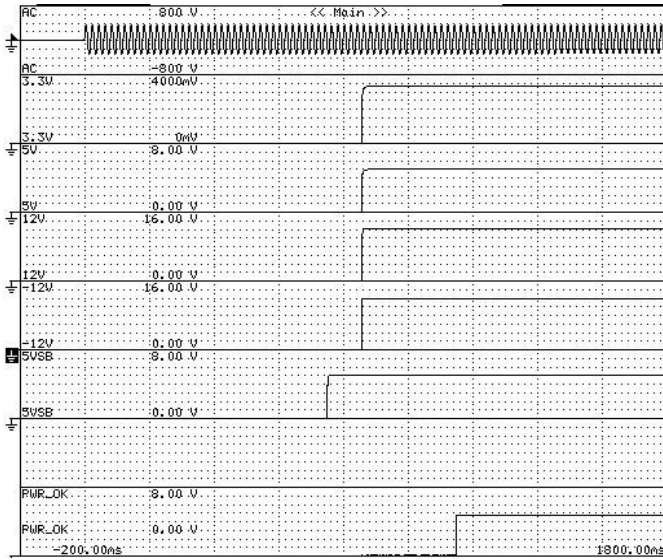
-12V DC Output Rise Characteristics

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Output Rise Characteristics (at AC Power ON)	

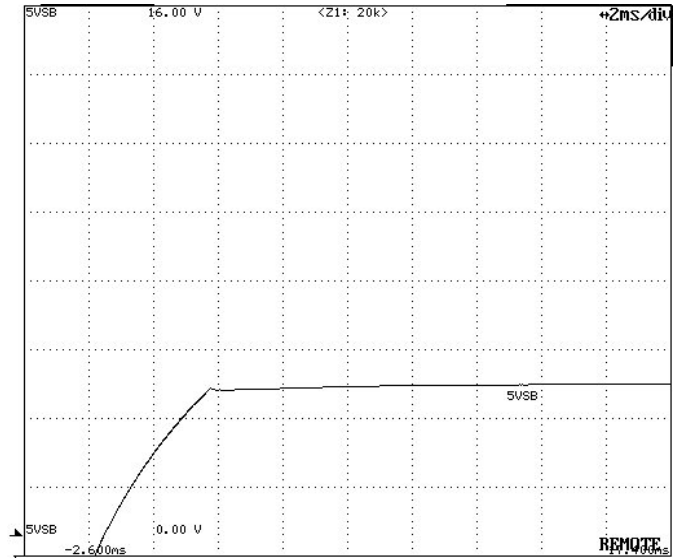
Input: 240V AC  
Load: Rated Load

Timebase Range: 200ms/div

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



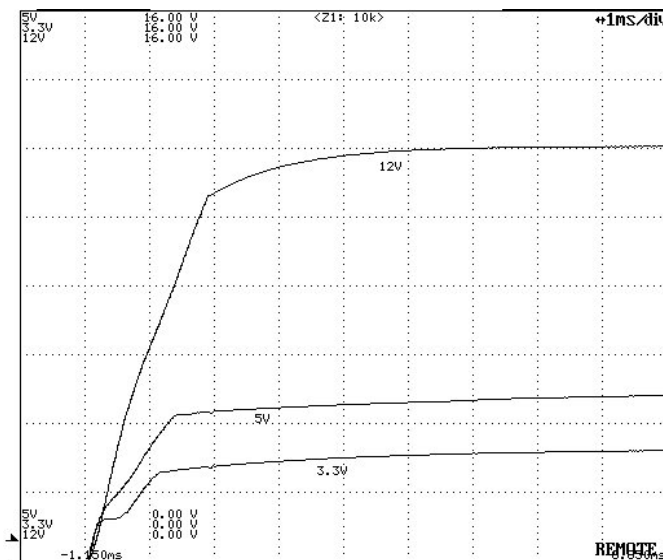
All Output Start-up Sequence



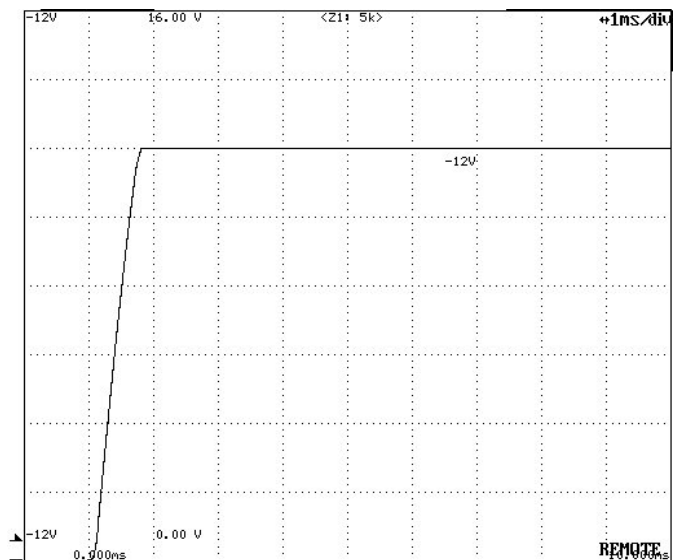
5VSB DC Output Rise Characteristics

Vertical Sensitivity: 2V/div  
Timebase Range: 1ms/div

Vertical Sensitivity: 2V/div  
Timebase Range: 1ms/div



DC Output Rise Characteristics



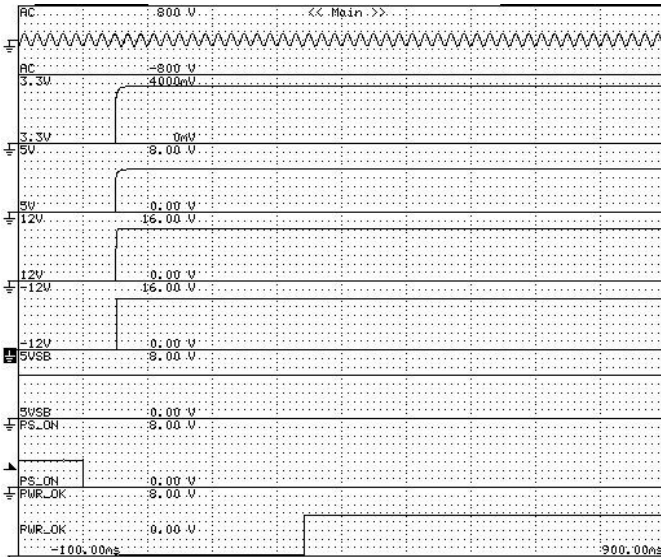
-12V DC Output Rise Characteristics



Model	PCFX-220P-X2S	Temperature: 25°C
Item	Output Rise Characteristics (at Remote ON)	

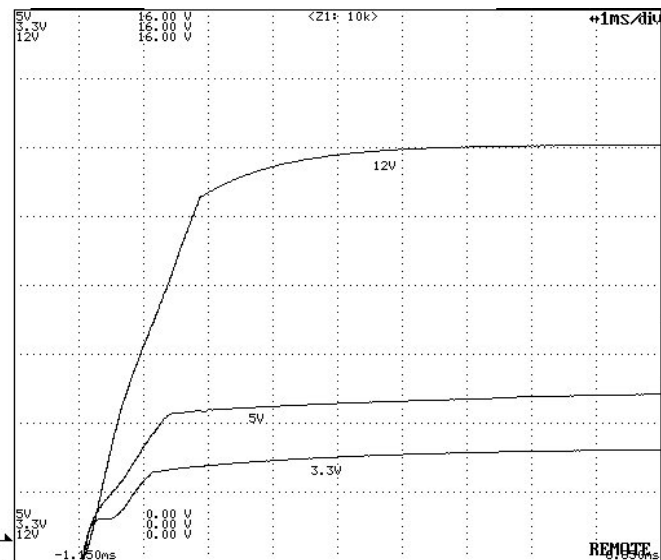
Input: 100V AC  
Load: Rated Load

**Timebase Range: 100ms/div**



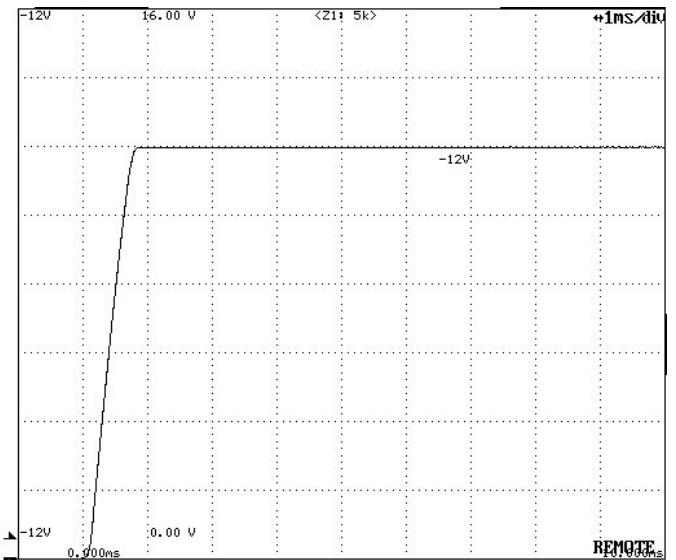
All Output Start-up Sequence

**Vertical Sensitivity: 2V/div  
Timebase Range: 1ms/div**



DC Output Rise Characteristics

**Vertical Sensitivity: 2V/div  
Timebase Range: 1ms/div**

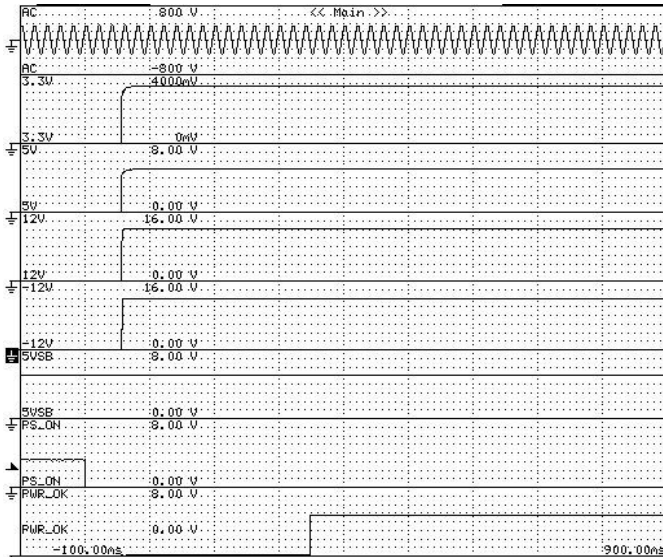


-12V DC Output Rise Characteristics

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Output Rise Characteristics (at Remote ON)	

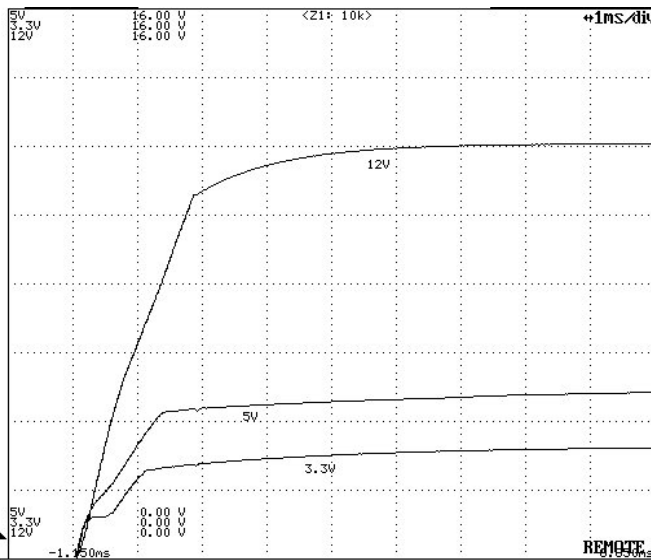
Input: 240V AC  
Load: Rated Load

**Timebase Range: 100ms/div**



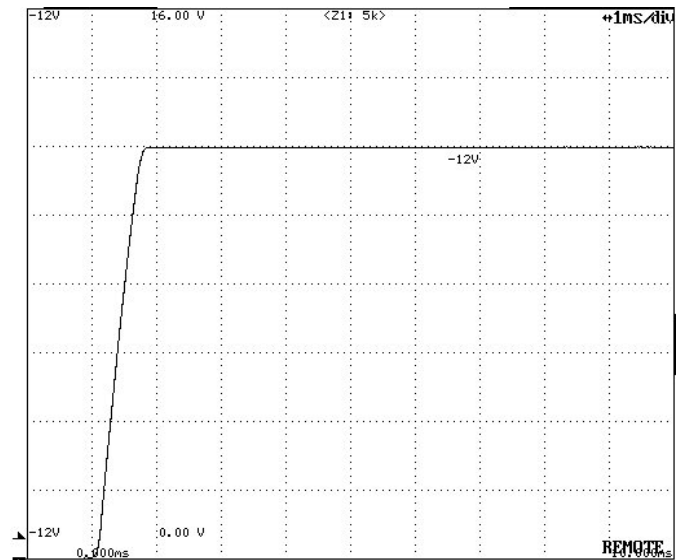
All Output Start-up Sequence

**Vertical Sensitivity: 2V/div**  
**Timebase Range: 1ms/div**



DC Output Rise Characteristics

**Vertical Sensitivity: 2V/div**  
**Timebase Range: 1ms/div**



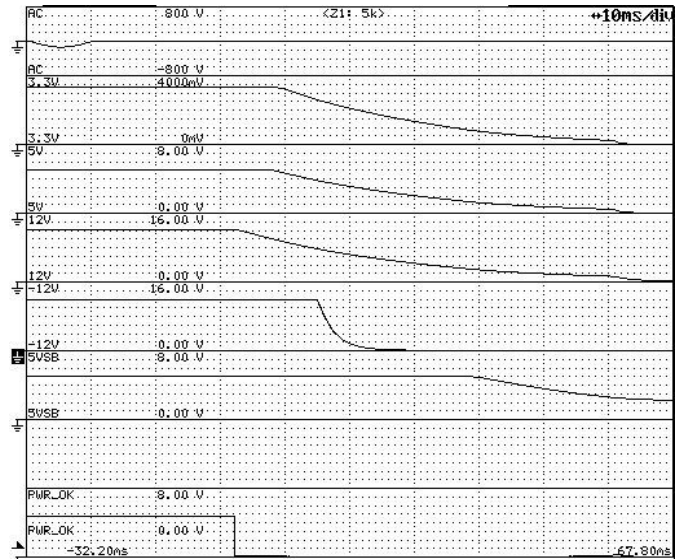
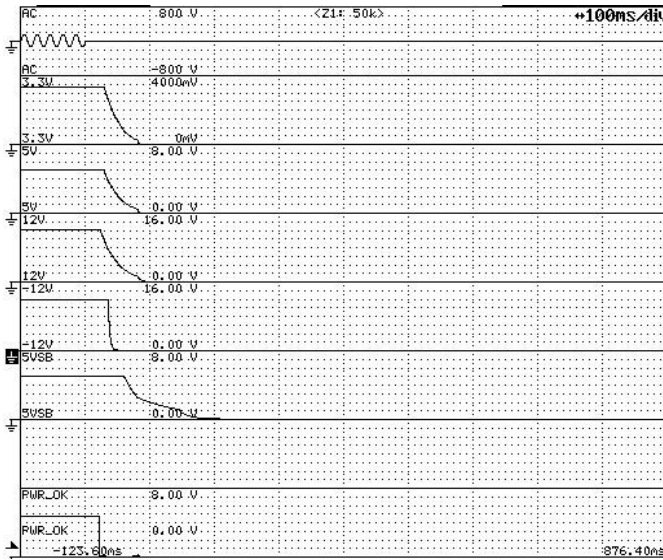
-12V DC Output Rise Characteristics

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Output Fall Characteristics (at AC Power OFF)	

Input: 100V AC  
Load: Rated Load

Timebase Range: 100ms/div

Timebase Range: 10ms/div



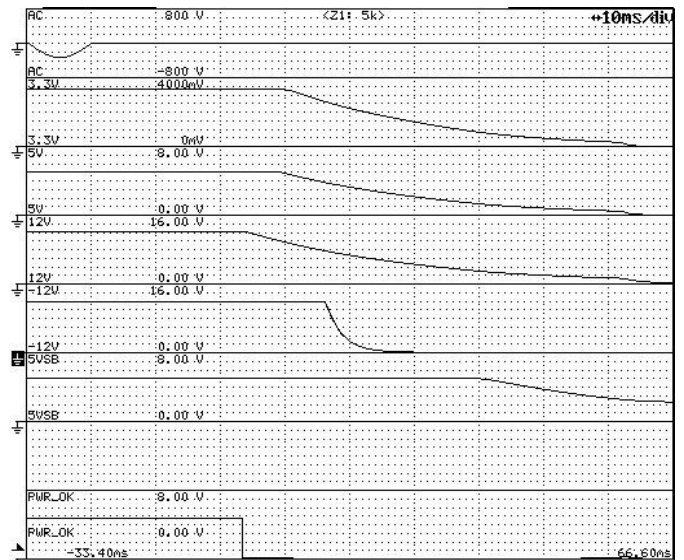
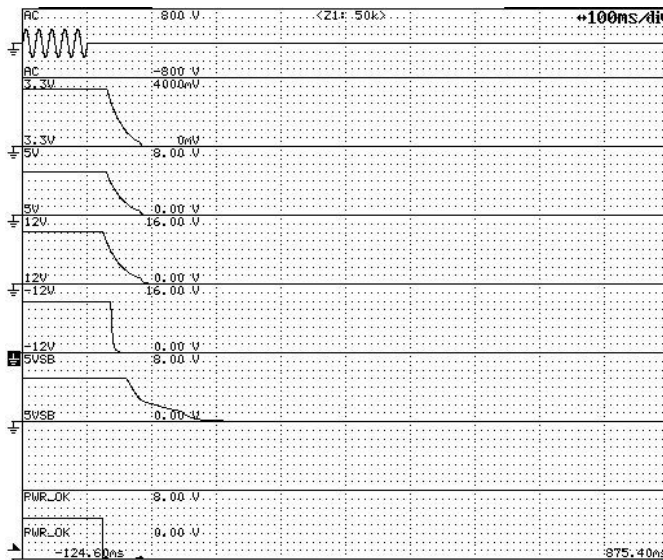
Output Fall Characteristics

Output Fall Characteristics (magnification)

Input: 240V AC  
Load: Rated Load

Timebase Range: 100ms/div

Timebase Range: 10ms/div



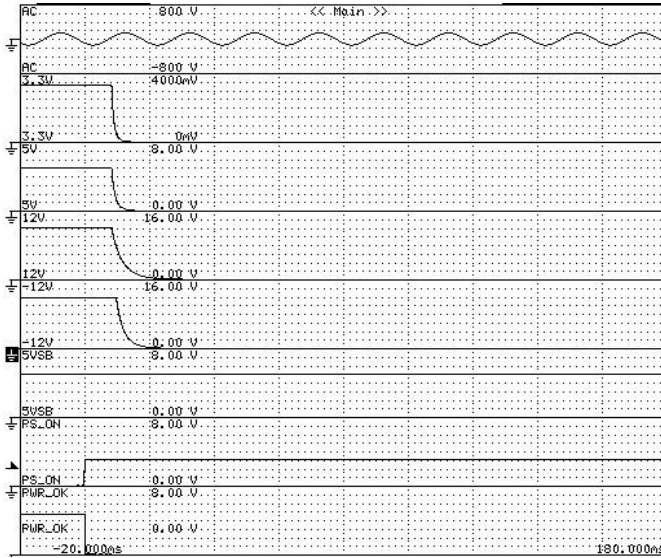
Output Fall Characteristics

Output Fall Characteristics (magnification)

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Output Fall Characteristics (at Remote OFF)	

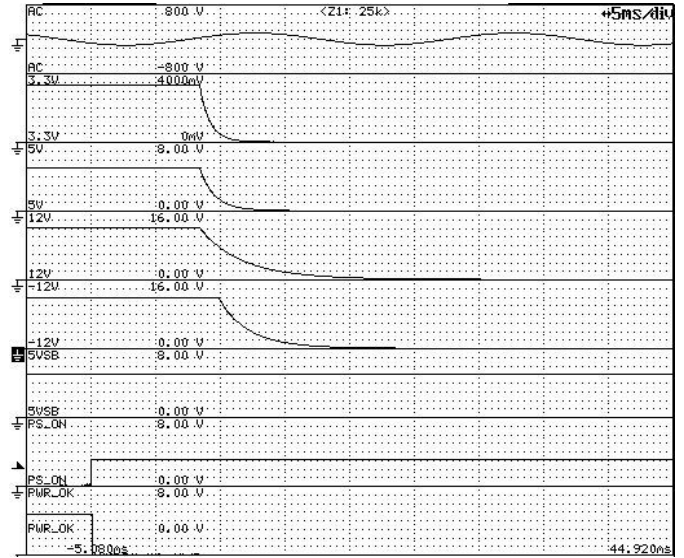
Input: 100V AC  
Load: Rated Load

Timebase Range: 20ms/div



Output Fall Characteristics

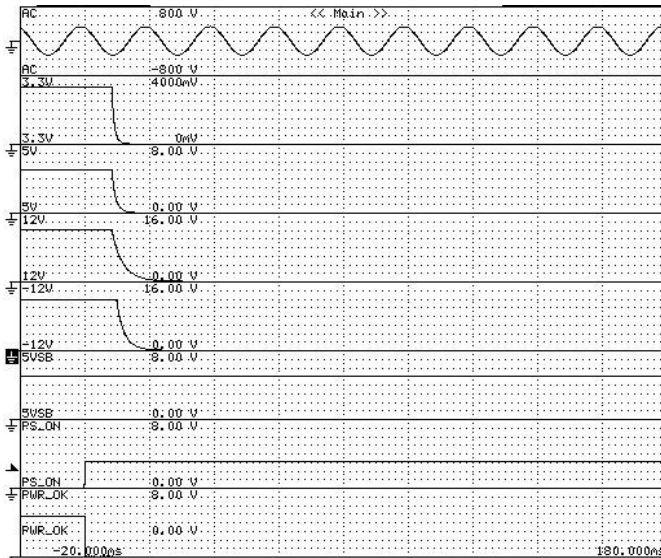
Timebase Range: 5ms/div



Output Fall Characteristics (magnification)

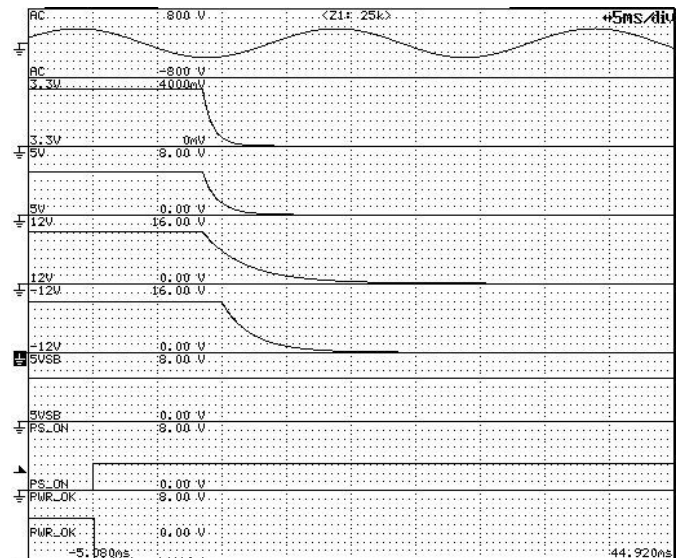
Input: 240V AC  
Load: Rated Load

Timebase Range: 20ms/div



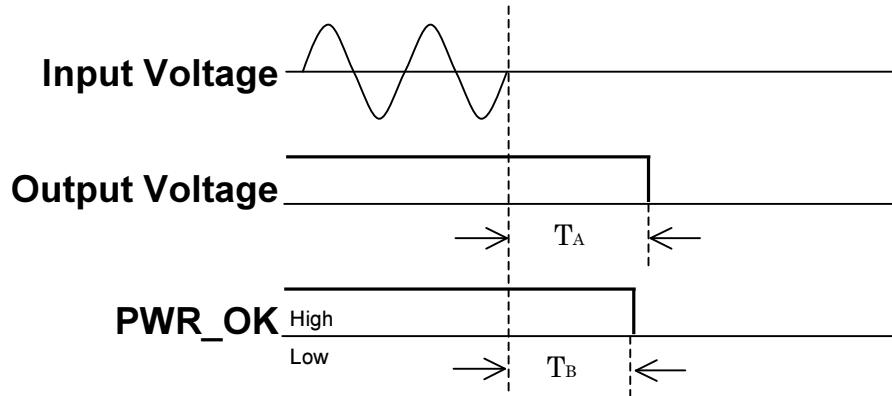
Output Fall Characteristics

Timebase Range: 5ms/div

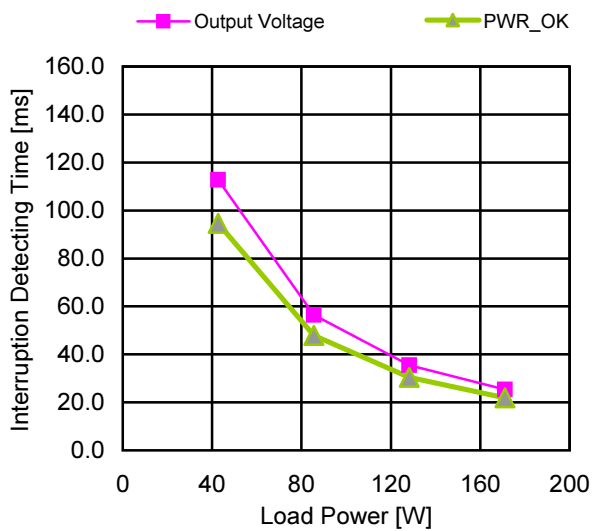


Output Fall Characteristics (magnification)

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Instantaneous Interruption Compensation (by Load Power)	

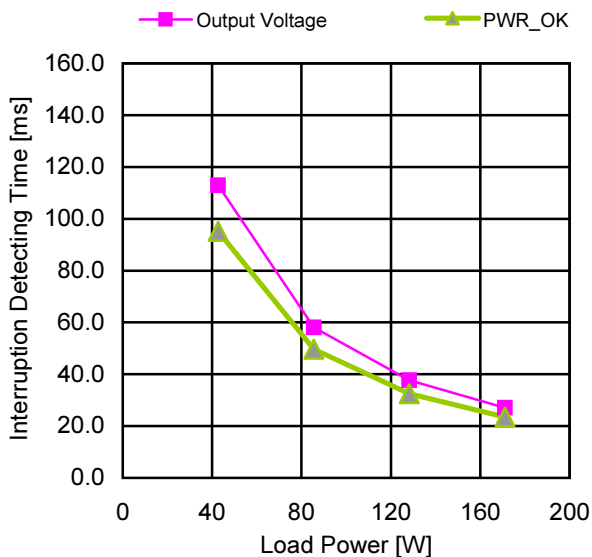


## Input Voltage: 100V AC



Load Power [W]	Interruption Detecting Time [ms]	
	[ms]	
	Output Voltage	PWR_OK
	$T_A$	$T_B$
42.8	112.8	94.6
85.5	56.4	47.9
128.3	35.5	30.4
171.0	25.4	21.9

## Input Voltage: 240V AC



Load Power [W]	Interruption Detecting Time [ms]	
	[ms]	
	Output Voltage	PWR_OK
	$T_A$	$T_B$
42.8	112.9	95.2
85.5	58.1	49.6
128.3	37.7	32.5
171.0	27.0	23.5

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Start-Up Voltage	

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

AC Input

+3.3V

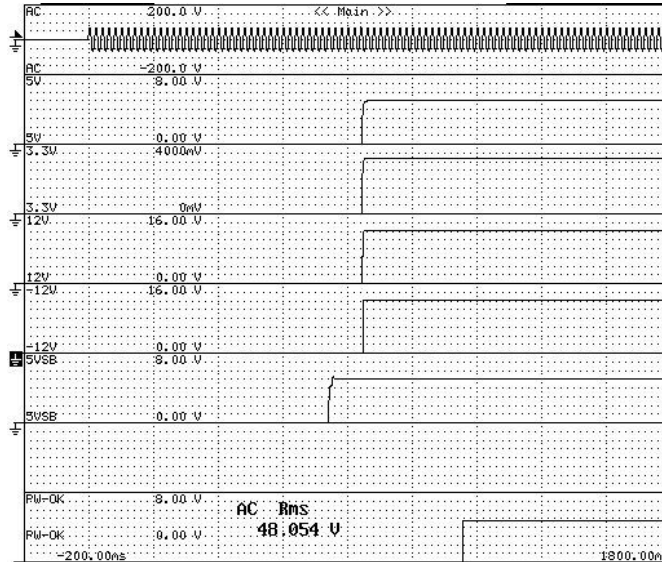
+5V

+12V

-12V

+5VSB

PWR\_OK



**Start-up Voltage: 79.8V AC**

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

AC Input

+3.3V

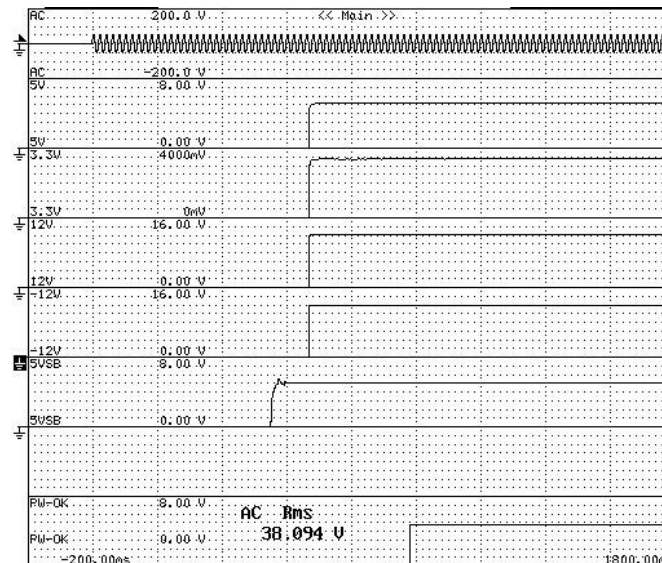
+5V

+12V

-12V

+5VSB

PWR\_OK



**Start-up Voltage: 63.0V AC**

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Input Voltage Sweep Up/Down	

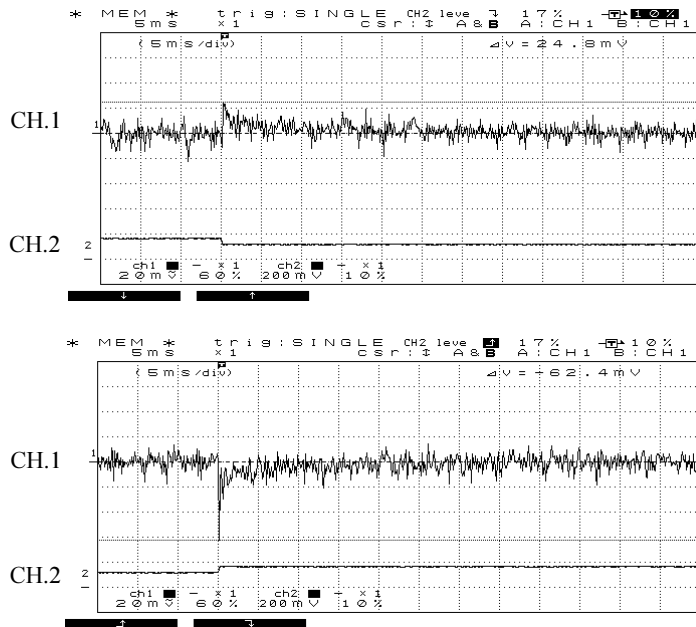
Timebase Range: 5s/div  
Load: Rated Load



Sweep Rate: 10Vave/sec

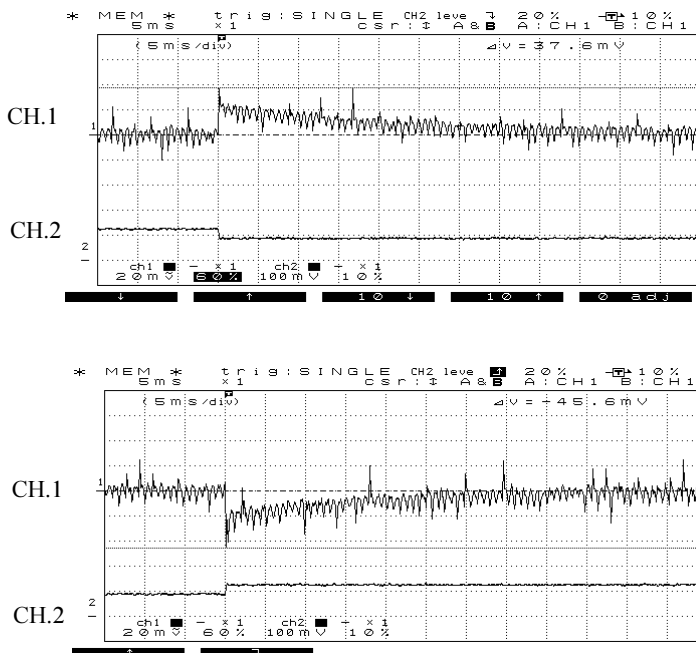
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Dynamic Load Response	

## +3.3V DC Output Transient Response Waveforms



Waveform 1	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 20mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC Load: Rated Load (Other output)
Note: Rated Load(8A) $\cong$ 70% load(5.6A)	

## +5V DC Output Transient Response Waveforms

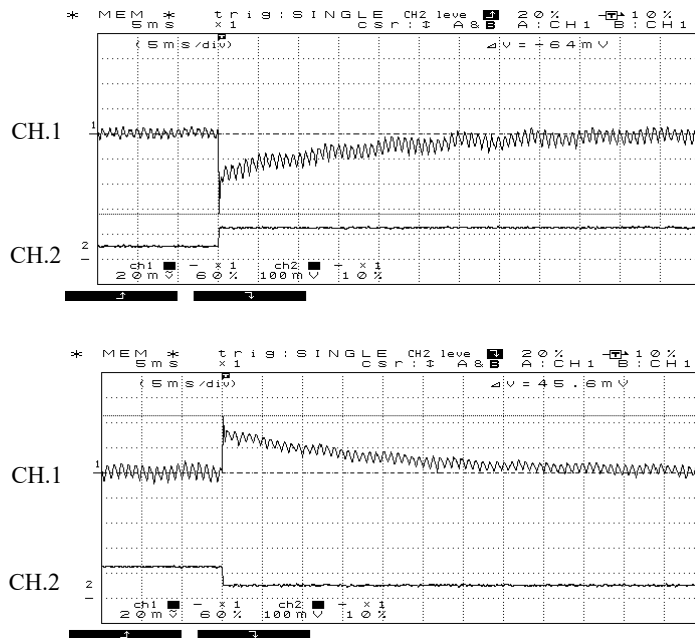


Waveform 2	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 20mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 10A/div
Timebase Range	5ms/div
Condition	Input: 100V AC Load: Rated Load (Other output)
Note: Rated Load(8A) $\cong$ 70% load(5.6A)	



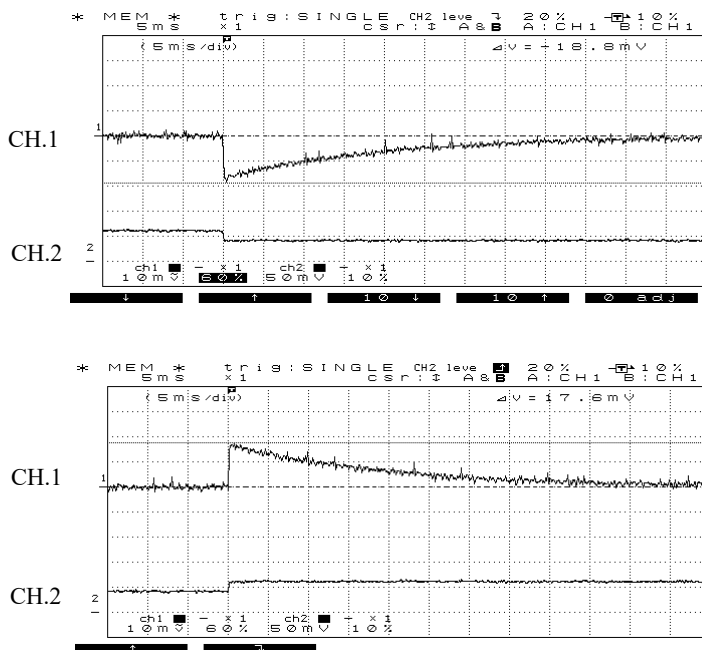
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Dynamic Load Response	

## +12V DC Output Transient Response Waveforms



Waveform 3	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 20mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 5A/div
Timebase Range	5ms/div
Condition	Input: 100V AC Load: Rated Load (Other output)
Note: Rated Load(8A) $\cong$ 50% load(4A)	

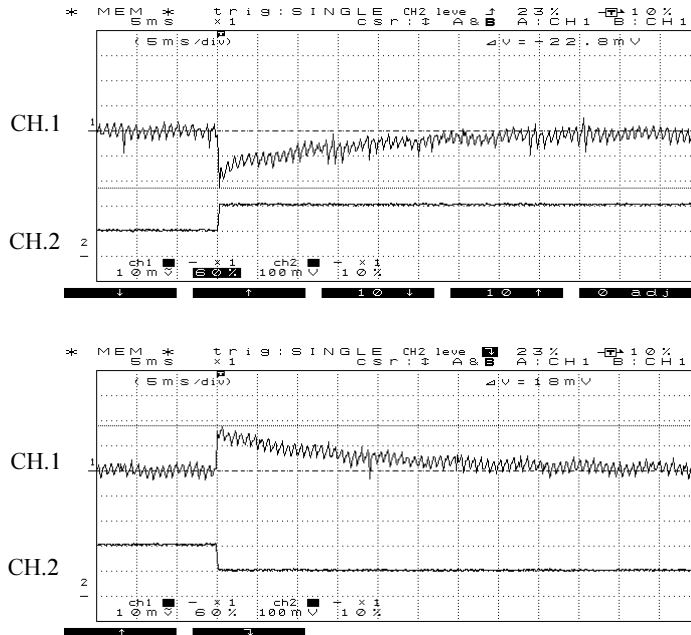
## -12V DC Output Transient Response Waveforms



Waveform 4	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 10mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 0.25A/div
Timebase Range	5ms/div
Condition	Input: 100V AC Load: Rated Load (Other output)
Note: Rated Load(0.3A) $\cong$ 66% load(0.2A)	

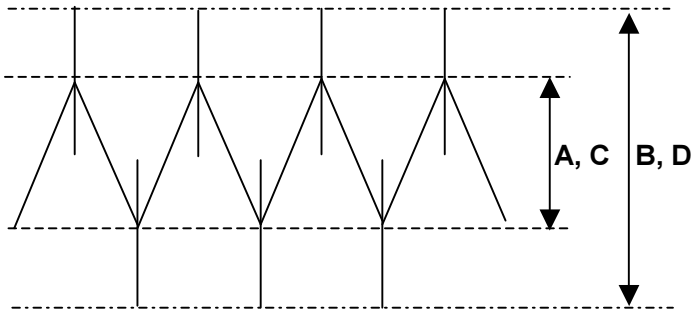
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Dynamic Load Response	

## 5VSB DC Output Transient Response Waveforms



Waveform 5	
CH1	Measuring Point: DC Output Voltage
	Vertical Sensitivity: 10mV/div
CH2	Measuring Point: DC Output Current
	Vertical Sensitivity: 0.5A/div
Timebase Range	5ms/div
Condition	Input: 100V AC Load: Rated Load (Other output)
Note: Rated Load(1A) $\cong$ 50% load(0.5A)	

Model	PCFX-220P-X2S	Load: Rated Load
Item	Ripple / Noise Voltage	



**at 100V AC**

A: Ripple Voltage (mV<sub>P-P</sub>)

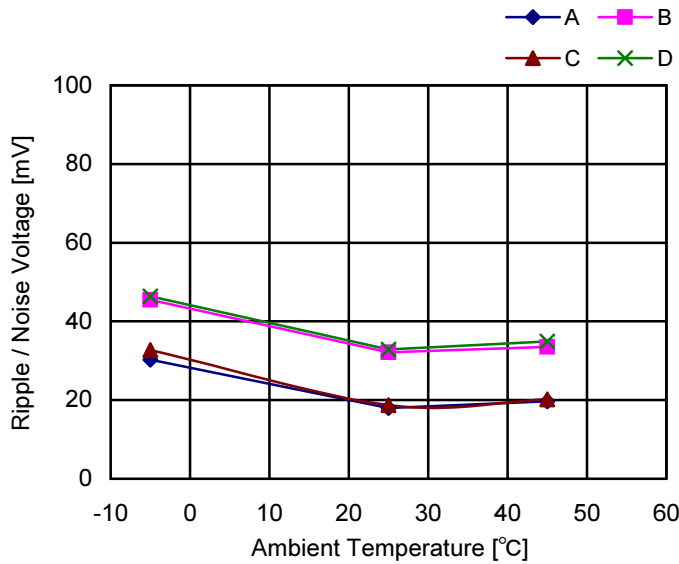
B: Noise Voltage (mV<sub>P-P</sub>)

**at 240V AC**

C: Ripple Voltage (mV<sub>P-P</sub>)

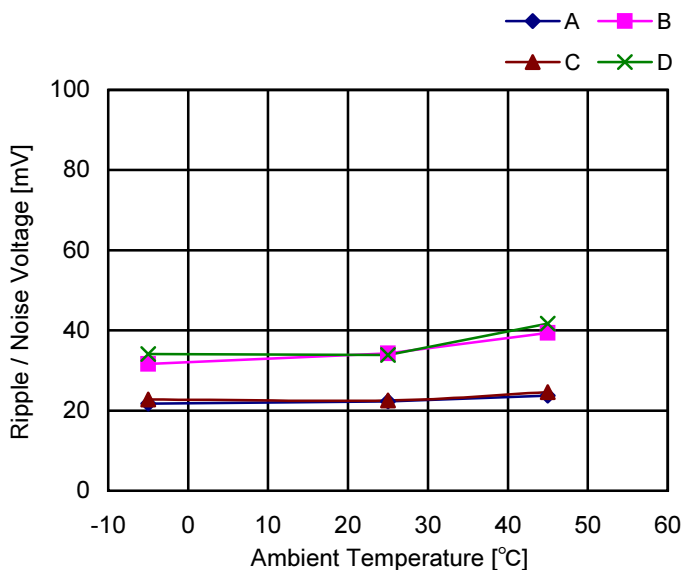
D: Noise Voltage (mV<sub>P-P</sub>)

## 3.3V



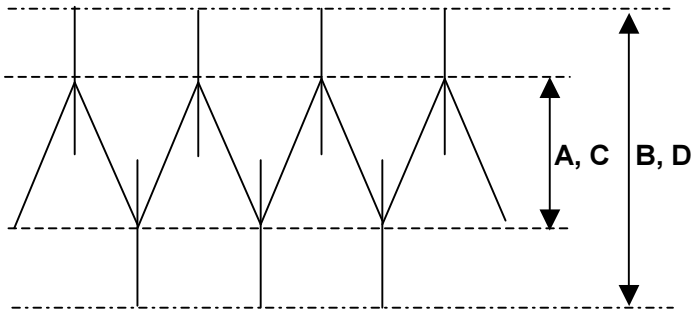
Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-5	30.3	45.5	32.7	46.4
25	18.0	32.1	18.7	32.9
45	19.7	33.5	20.2	34.9

## 5V



Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-5	21.7	31.6	22.8	34.1
25	22.3	34.3	22.5	33.9
45	23.7	39.4	24.6	41.7

Model	PCFX-220P-X2S	Load: Rated Load
Item	Ripple / Noise Voltage	



**at 100V AC**

A: Ripple Voltage (mV<sub>P-P</sub>)

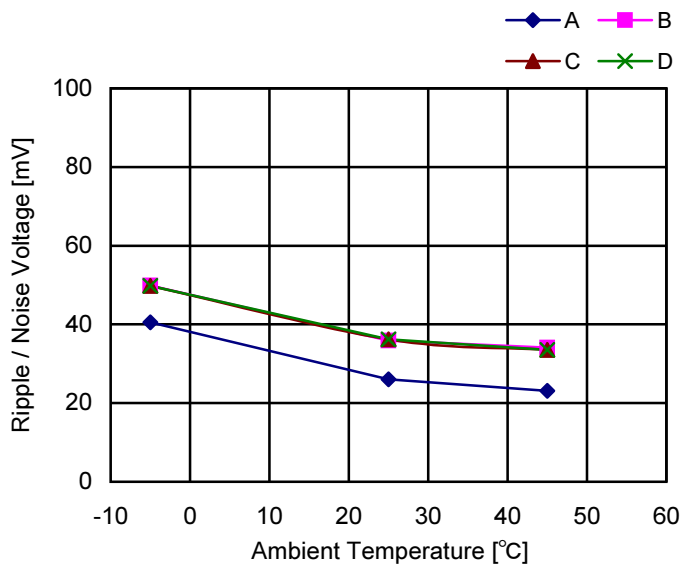
B: Noise Voltage (mV<sub>P-P</sub>)

**at 240V AC**

C: Ripple Voltage (mV<sub>P-P</sub>)

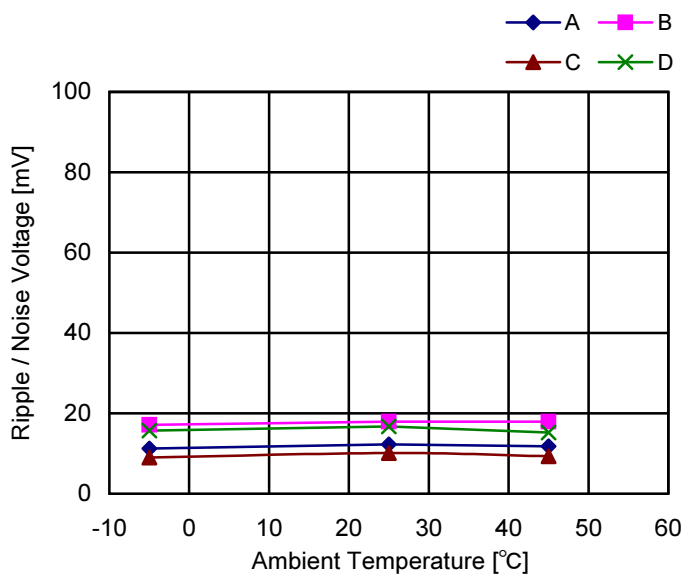
D: Noise Voltage (mV<sub>P-P</sub>)

## 12V



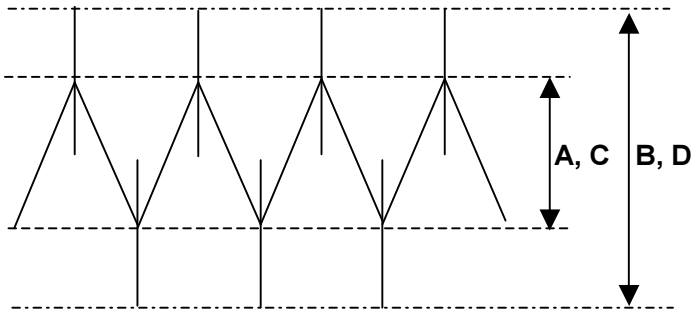
Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-5	40.5	49.9	40.7	49.8
25	26.0	35.9	26.1	36.2
45	23.1	34.1	22.7	33.5

## -12V



Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-5	11.2	17.1	9.0	15.7
25	12.3	17.9	10.1	16.7
45	11.8	17.9	9.3	15.2

Model	PCFX-220P-X2S	Load: Rated Load
Item	Ripple / Noise Voltage	



**at 100V AC**

A: Ripple Voltage (mV<sub>P-P</sub>)

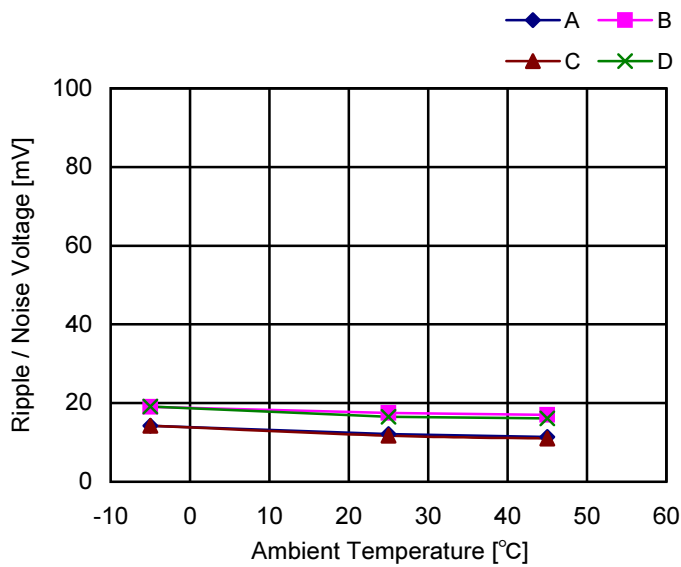
B: Noise Voltage (mV<sub>P-P</sub>)

**at 240V AC**

C: Ripple Voltage (mV<sub>P-P</sub>)

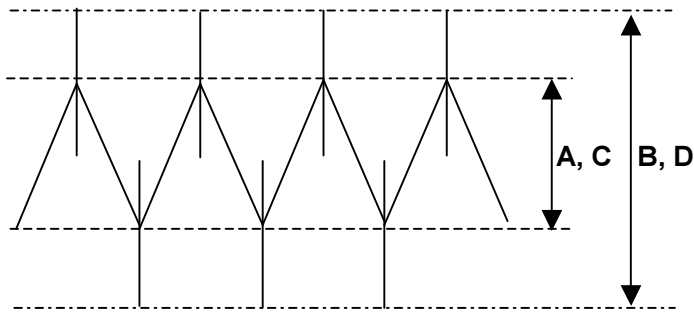
D: Noise Voltage (mV<sub>P-P</sub>)

## 5VSB



Ambient Temp. [°C]	Ripple / Noise Voltage [mV]			
	A	B	C	D
-5	14.2	19.0	14.2	19.1
25	12.1	17.5	11.7	16.5
45	11.4	17.0	11.0	16.1

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Ripple / Noise Voltage	



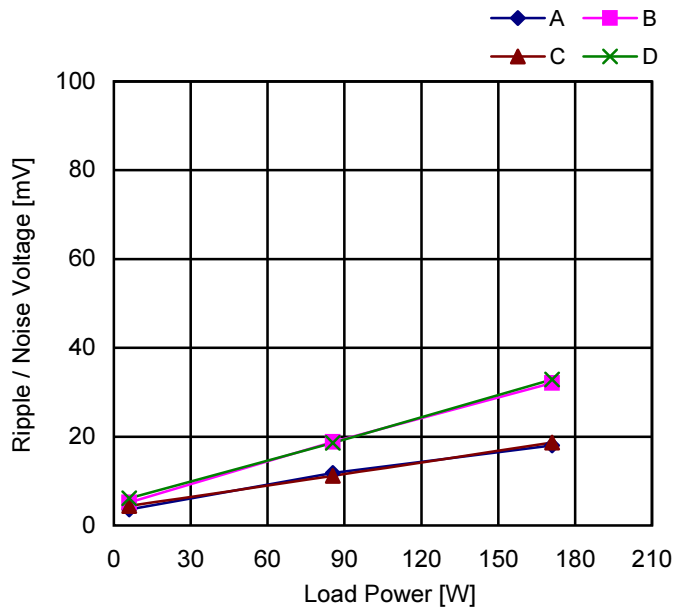
**at 100V AC**

A: Ripple Voltage (mV<sub>P-P</sub>)  
B: Noise Voltage (mV<sub>P-P</sub>)

**at 240V AC**

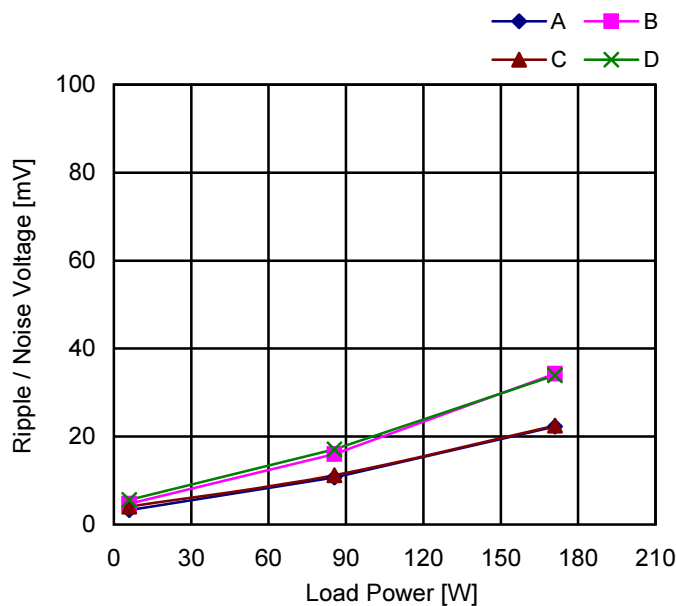
C: Ripple Voltage (mV<sub>P-P</sub>)  
D: Noise Voltage (mV<sub>P-P</sub>)

### 3.3V



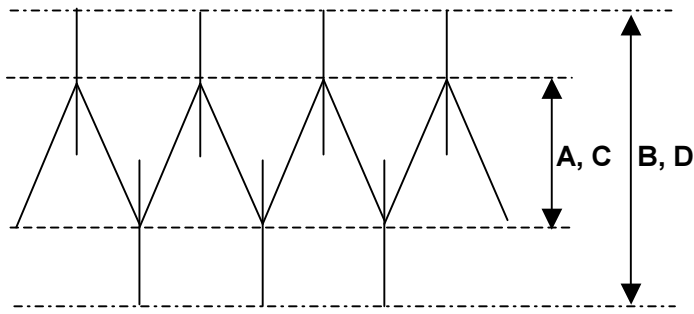
Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
6.0	3.6	5.2	4.4	6.1
85.5	11.8	18.8	11.2	18.6
171.0	18.0	32.1	18.7	32.9

### 5V



Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
6.0	3.3	4.7	4.1	5.6
85.5	10.7	16.0	11.2	17.1
171.0	22.3	34.3	22.5	33.9

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Ripple / Noise Voltage	



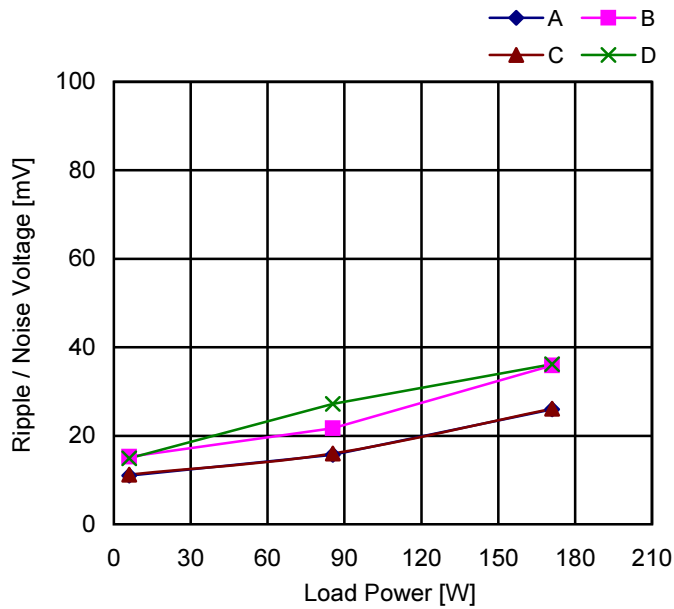
**at 100V AC**

A: Ripple Voltage (mV<sub>P-P</sub>)  
B: Noise Voltage (mV<sub>P-P</sub>)

**at 240V AC**

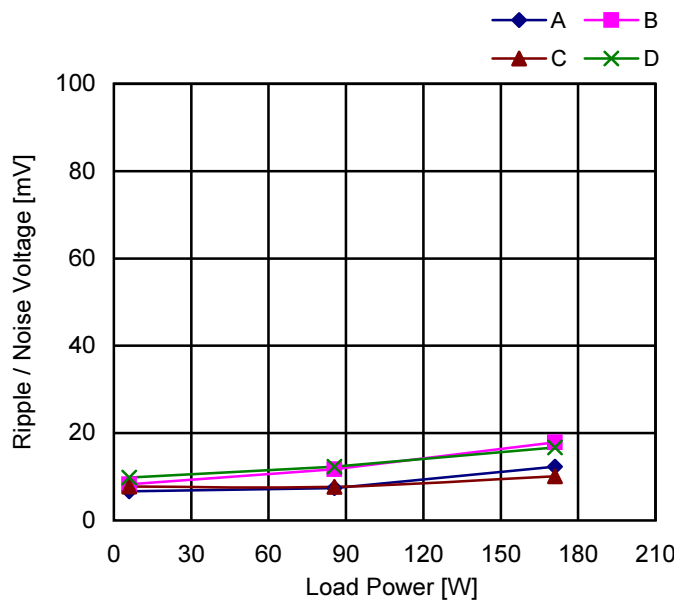
C: Ripple Voltage (mV<sub>P-P</sub>)  
D: Noise Voltage (mV<sub>P-P</sub>)

## 12V



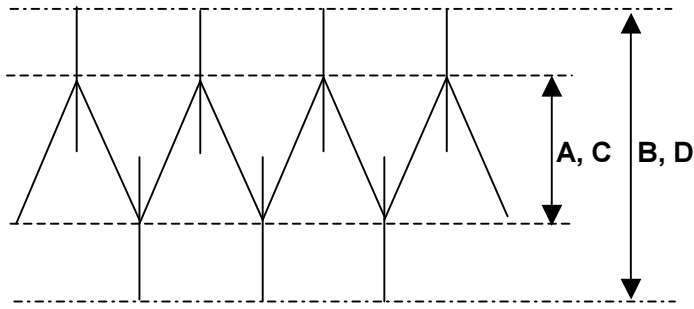
Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
6.0	11.0	15.3	11.2	14.9
85.5	15.7	21.7	16.0	27.2
171.0	26.0	35.9	26.1	36.2

## -12V



Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
6.0	6.7	8.3	7.8	9.8
85.5	7.4	11.7	7.7	12.3
171.0	12.3	17.9	10.1	16.7

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Ripple / Noise Voltage	



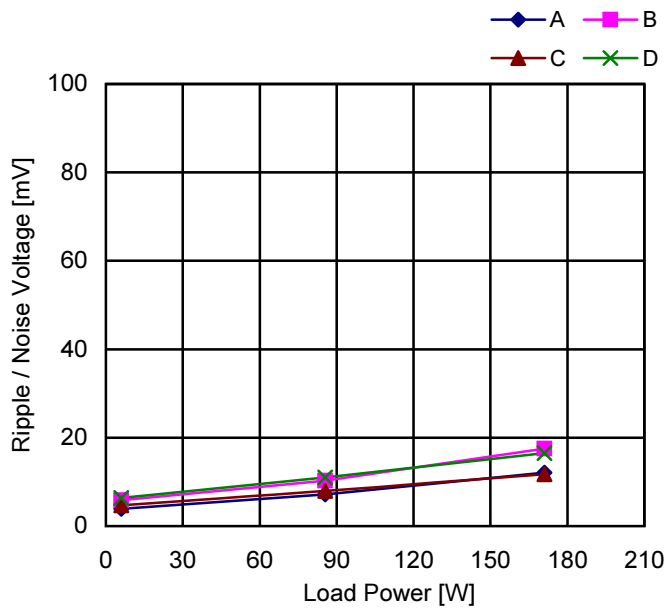
**at 100V AC**

A: Ripple Voltage (mV<sub>P-P</sub>)  
B: Noise Voltage (mV<sub>P-P</sub>)

**at 240V AC**

C: Ripple Voltage (mV<sub>P-P</sub>)  
D: Noise Voltage (mV<sub>P-P</sub>)

## 5VSB

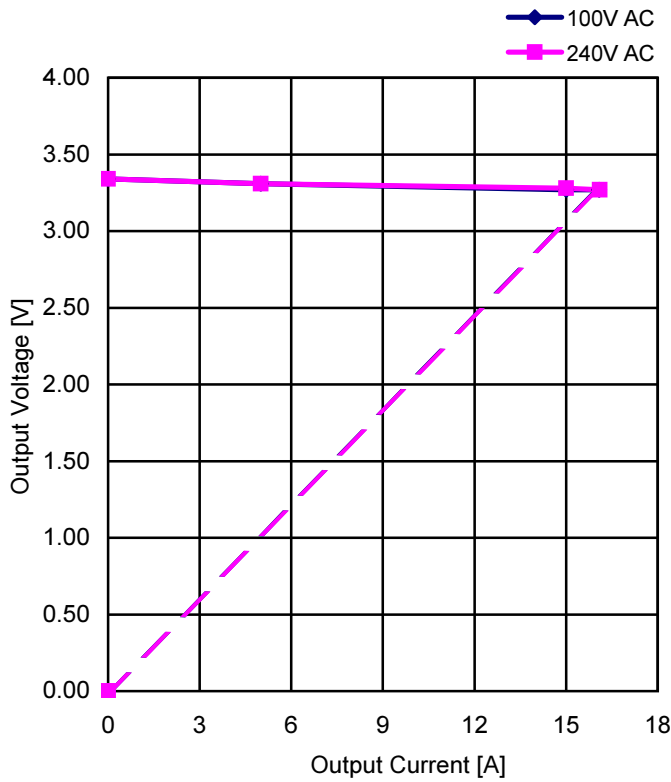


Load Power [W]	Ripple / Noise Voltage [mV]			
	A	B	C	D
6.0	3.9	5.9	4.7	6.4
85.5	7.2	10.3	8.0	11.0
171.0	12.1	17.5	11.7	16.5



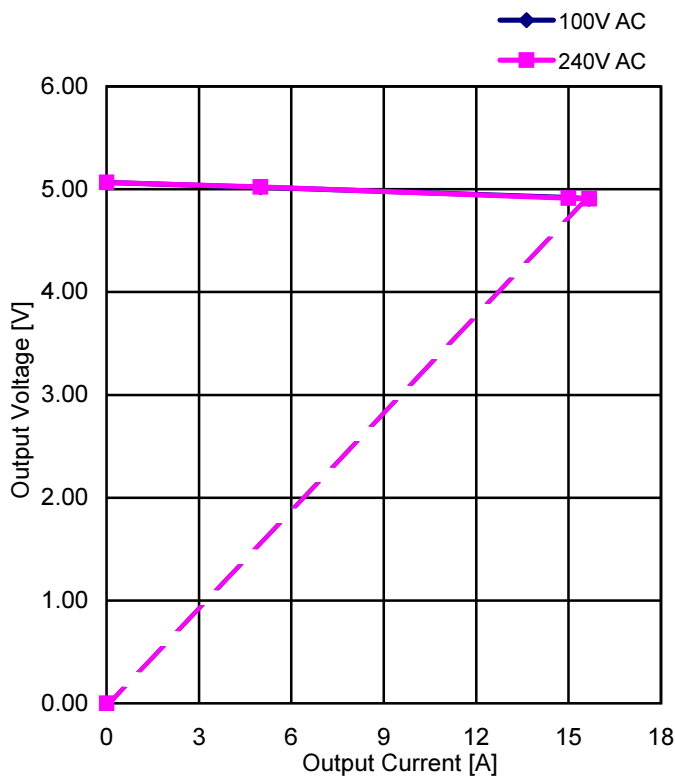
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Over-Current Protection	

## V-I Characteristics of 3.3V 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	3.34	0.00	3.34
5.00	3.31	5.00	3.31
15.00	3.27	15.00	3.28
16.08	3.27	16.11	3.27
0.00	0.00	0.00	0.00

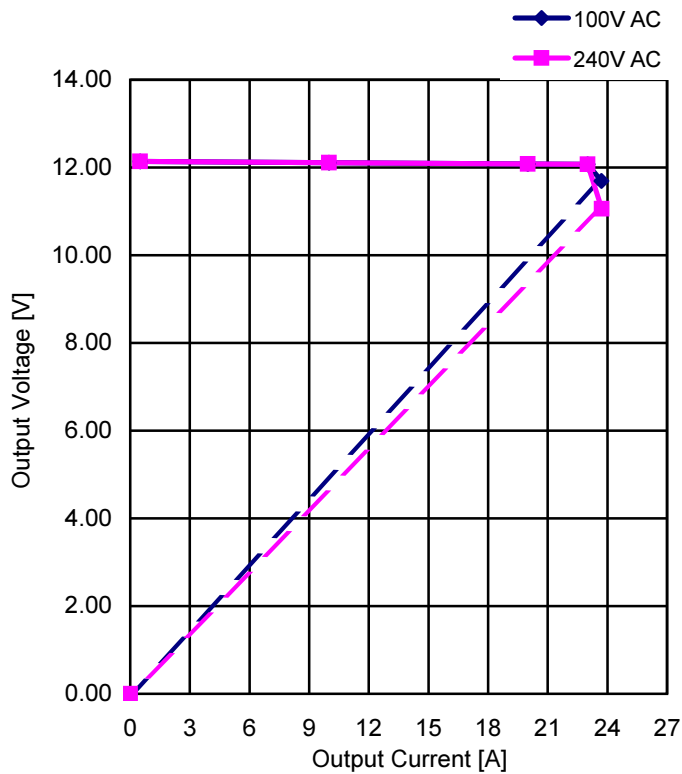
## V-I Characteristics of 5V O.C.P



Input Voltage: 100V AC		Input Voltage: 240V AC	
Output Current [A]	Output Voltage [V]	Output Current [A]	Output Voltage [V]
0.00	5.07	0.00	5.07
5.00	5.02	5.00	5.02
15.00	4.92	15.00	4.91
15.68	4.91	15.67	4.91
0.00	0.00	0.00	0.00

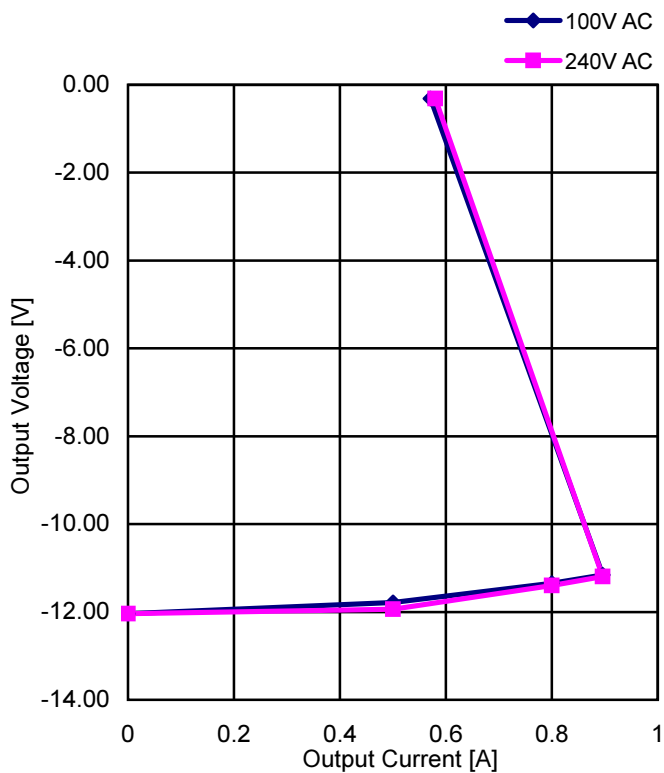
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Over-Current Protection	

## 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]
0.50	12.14	0.50	12.14
10.00	12.11	10.00	12.11
20.00	12.08	20.00	12.08
23.00	12.08	23.00	12.08
23.69	11.69	23.71	11.06

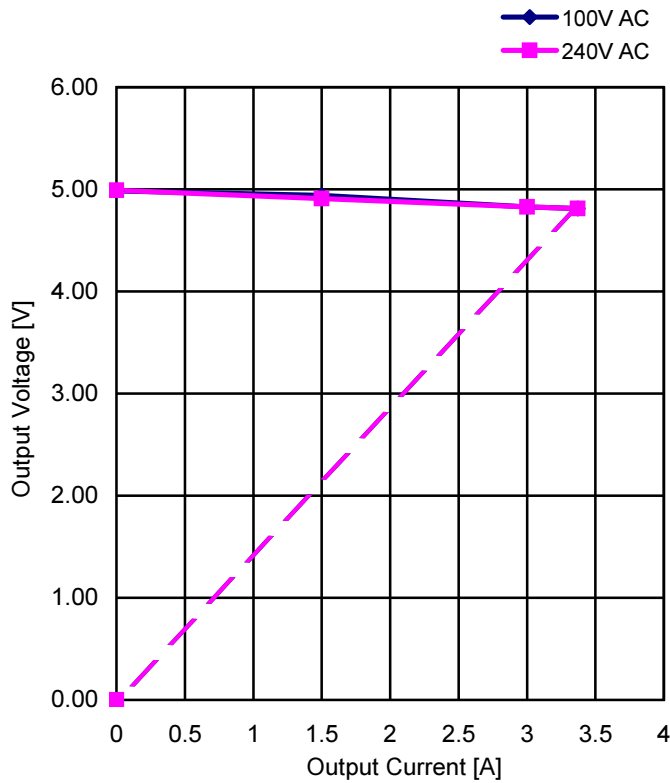
## V-I Characteristics of -12V O.C.P



Input Voltage: 100V AC		Input Voltage: 240V AC	
Output Current [A]	Output Voltage [V]	Output Current [A]	Output Voltage [V]
0.00	-12.04	0.00	-12.04
0.50	-11.78	0.50	-11.94
0.80	-11.35	0.80	-11.40
0.90	-11.16	0.90	-11.20
0.57	-0.31	0.58	-0.31

Model	PCFX-220P-X2S	Temperature: 25°C
Item	Over-Current Protection	

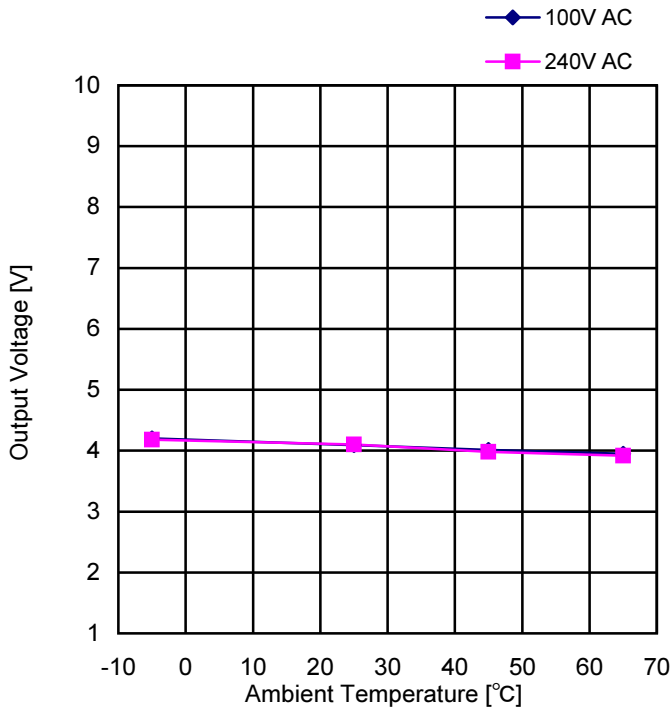
## V-I Characteristics of 5VSB O.C.P



Input Voltage: 100V AC		Input Voltage: 240V AC	
Output Current [A]	Output Voltage [V]	Output Current [A]	Output Voltage [V]
0.00	4.99	0.00	4.99
1.50	4.94	3.00	4.91
3.00	4.83	3.00	4.83
3.37	4.81	3.37	4.81
0.00	0.00	0.00	0.00

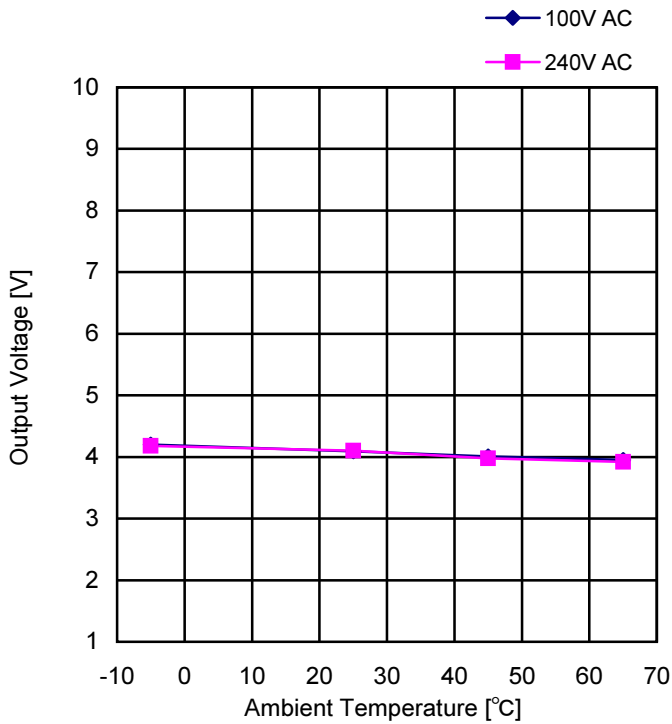
Model	PCFX-220P-X2S	Load: Minimum Load
Item	Over-Voltage Protection	

### 3.3V



Ambient Temp. [°C]	Output Voltage[V]	
	Input Voltage 100V AC	Input Voltage 240V AC
-5	4.20	4.18
25	4.09	4.10
45	4.01	3.98
65	3.95	3.92

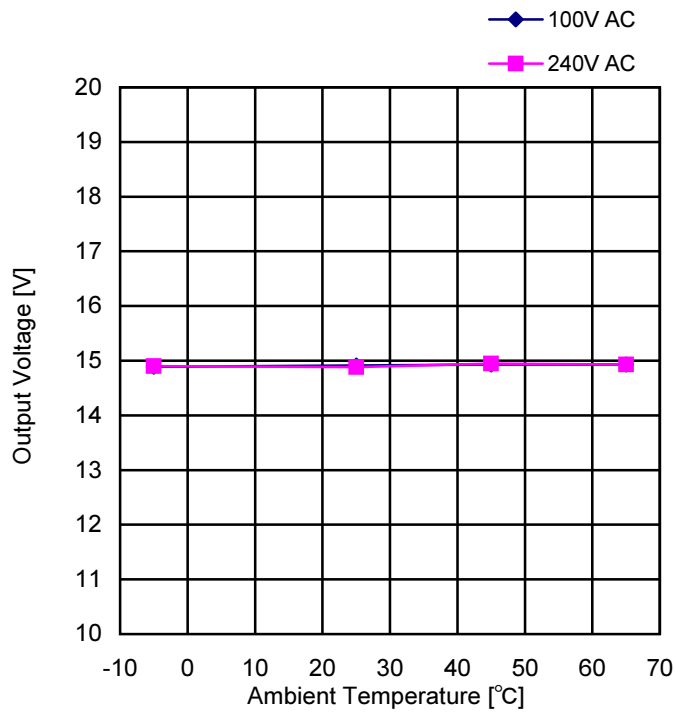
### 5V



Ambient Temp. [°C]	Output Voltage[V]	
	Input Voltage 100V AC	Input Voltage 240V AC
-5	6.58	6.59
25	6.45	6.42
45	6.31	6.32
65	6.25	6.21

Model	HPCSF-400P-X2S	Load: Minimum Load
Item	Over-Voltage Protection	

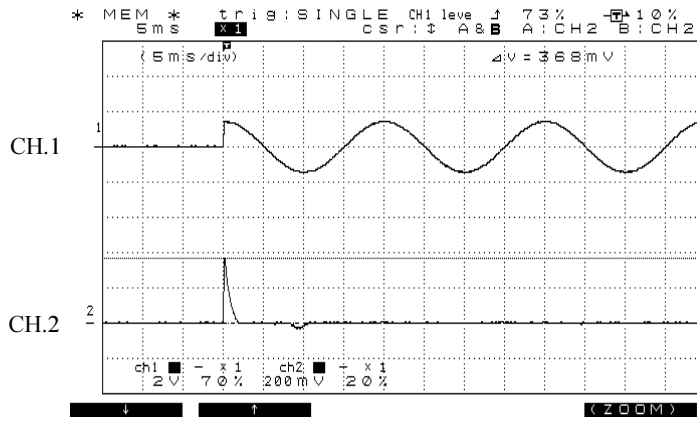
## 12V



Ambient Temp. [°C]	Output Voltage[V]	
	Input Voltage 100V AC	Input Voltage 240V AC
-5	15.20	15.15
25	14.98	15.02
45	14.82	14.81
65	14.70	14.72

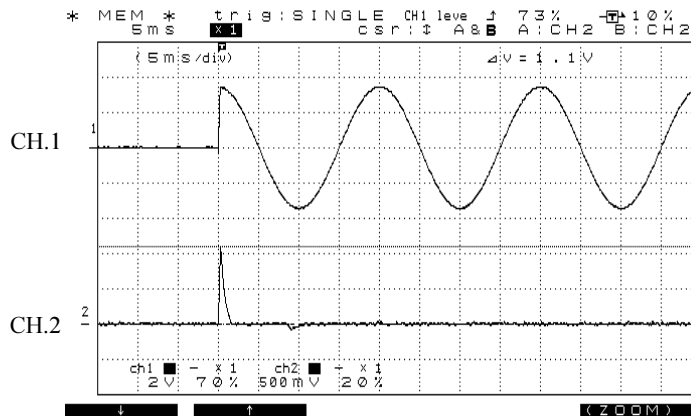
Model	PCFX-220P-X2S	Temperature: 25°C
Item	Inrush Current	Load: Rated Load

## Inrush Current Waveforms



### Waveform 1

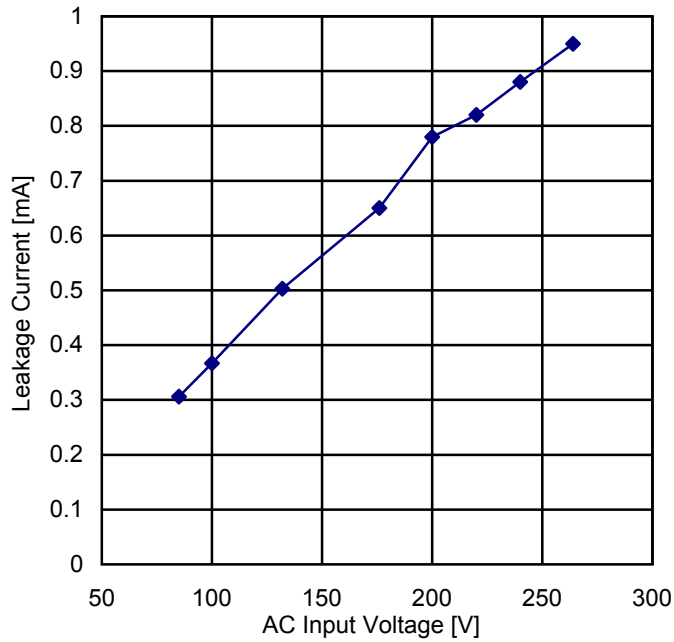
CH1	Measuring Point: AC Input Voltage
	Range: 200V/div
CH2	Measuring Point: AC Input Current
	Range: 10A/div
Timebase Range	5ms/div
Conditions	Input: 100V AC Load: Rated Load
Note: Inrush Current: 18.4A	



### Waveform 2

CH1	Measuring Point: AC Input Voltage
	Range: 200V/div
CH2	Measuring Point: AC Input Current
	Range: 25A/div
Timebase Range	5ms/div
Conditions	Input: 240V AC Load: Rated Load
Note: Inrush Current: 55.0A	

Model	PCFX-220P-X2S	Load: Rated Load
Item	Leakage Current	Temperature: 25°C



AC Input Voltage [V]	Leakage Current [mA]
85	0.31
100	0.37
132	0.50
176	0.65
200	0.78
220	0.82
240	0.88
264	0.95