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EXTRA TEST DATA OF PCA1000F-32

Regulated DC Power Supply
Nov, 20, 2023
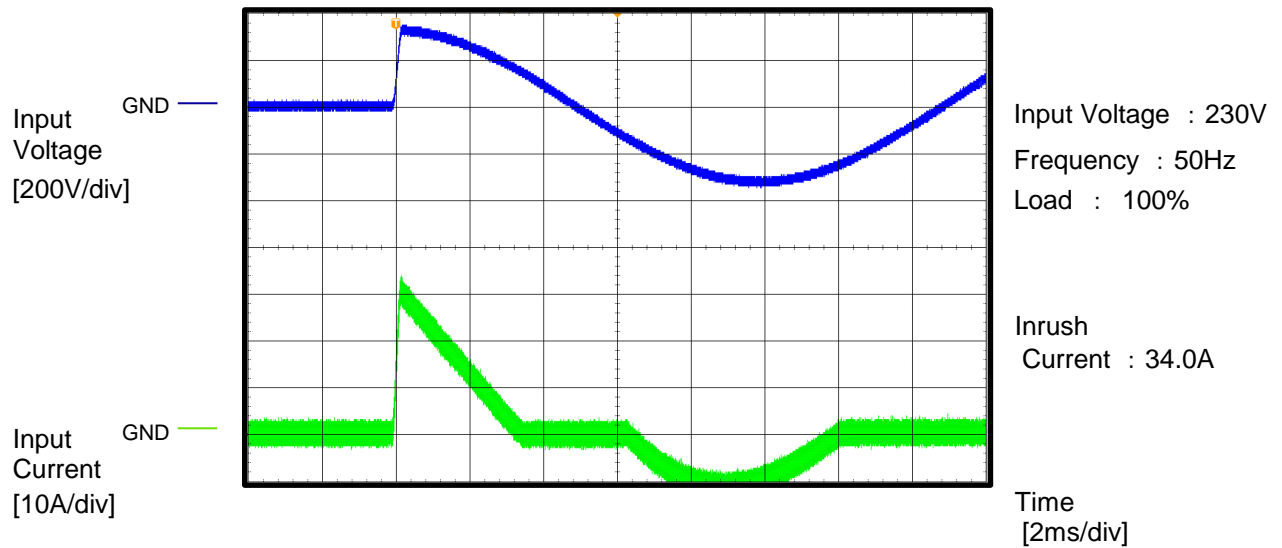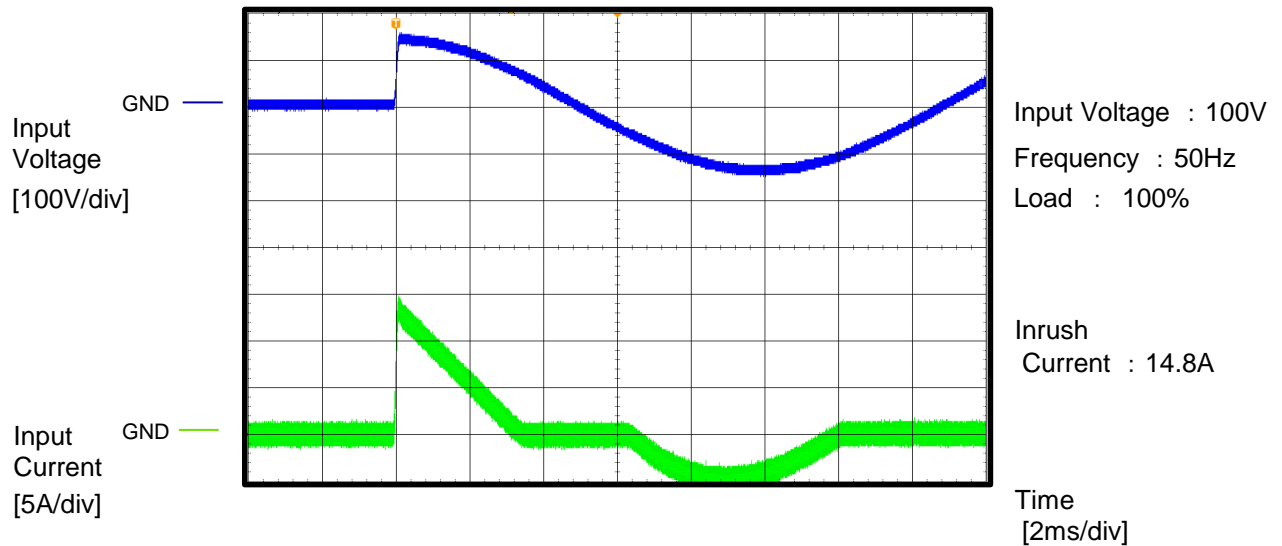
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Model	PCA1000F-32
Item	Inrush Current (enlargement)
Object	————————

Temperature 25°C
Testing Circuitry A

Input
Voltage
[100V/div]

GND —

Input Voltage : 100V
Frequency : 50Hz
Load : 100%

Input
Current
[5A/div]

GND —

Inrush
Current : 14.8A

Time
[2ms/div]

Input
Voltage
[200V/div]

GND —

Input Voltage : 230V
Frequency : 50Hz
Load : 100%

Input
Current
[10A/div]

GND —

Inrush
Current : 34.0A

Time
[2ms/div]

Inrush current

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Model	PCA1000F-32
Item	Dynamic Line Regulation
Object	————————

Temperature　　　25°C
Testing Circuitry　A

Input Voltage [200V/div]
GND

Output Voltage [50mV/div]
GND

Input Voltage :
　100V　⇔　230V

Frequency ：50Hz

Load ：100%

Time
　[400ms/div]

Input Voltage [200V/div]
GND

Output Voltage [50mV/div]
GND

Input Voltage :
　230V　⇔　100V

Frequency ：50Hz

Load ：100%

Time
　[400ms/div]

Voltage swell

Input Voltage

Output Voltage

Voltage dip

Input Voltage

Output Voltage

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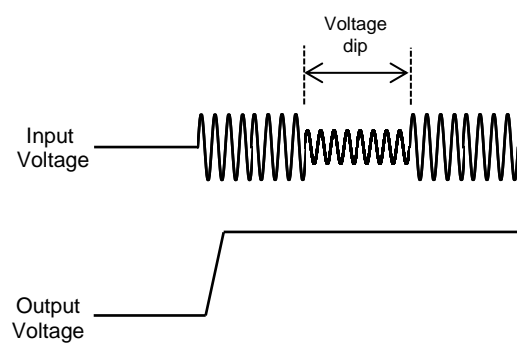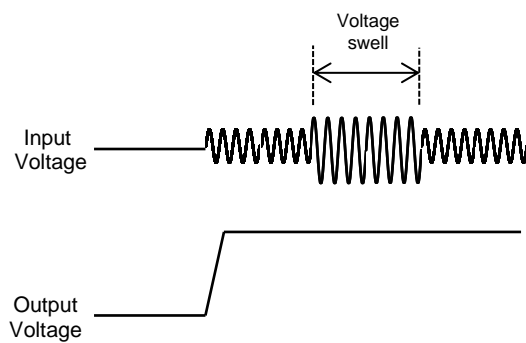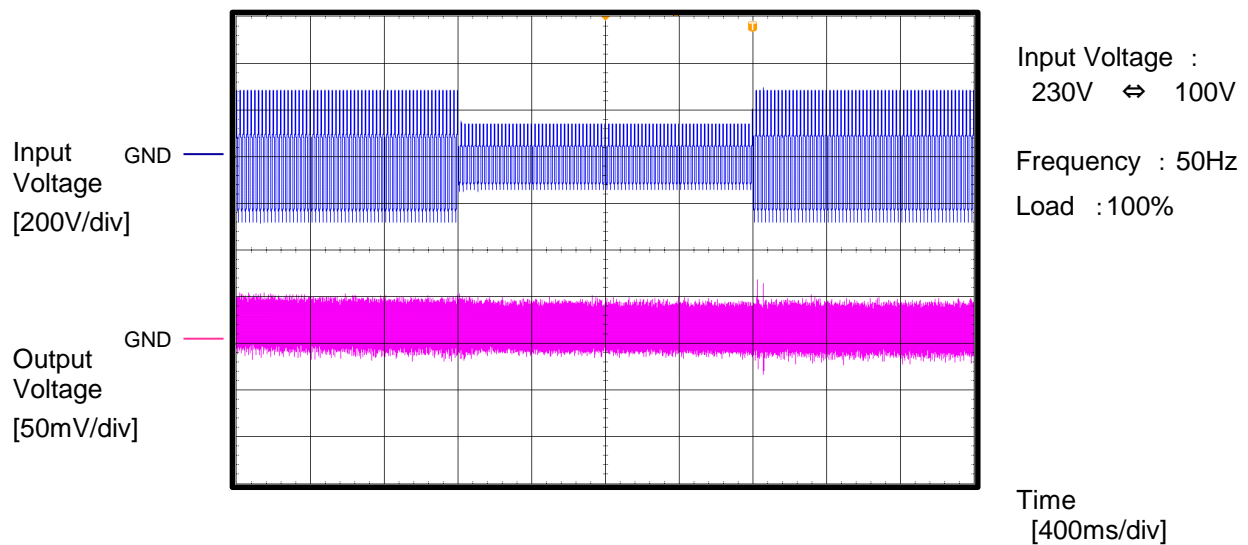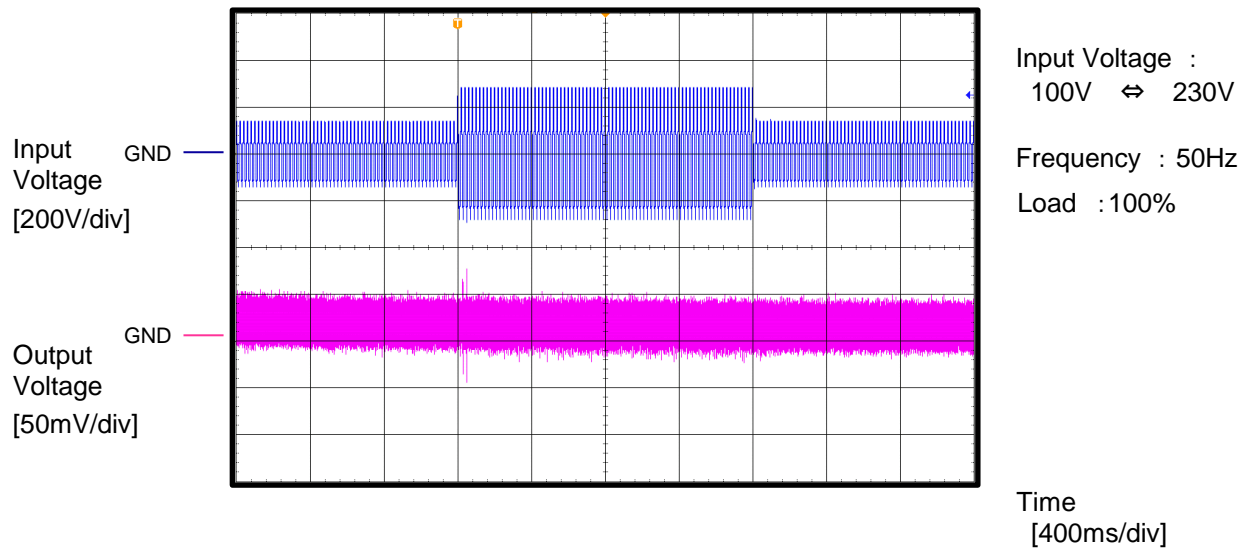
Model	PCA1000F-32
Item	Hiccup cycle (by Overcurrent Protection)
Object	————————

Temperature　　25°C
Testing Circuitry　A

Load ： Short

Output
Current
[10A/div]

GND ———
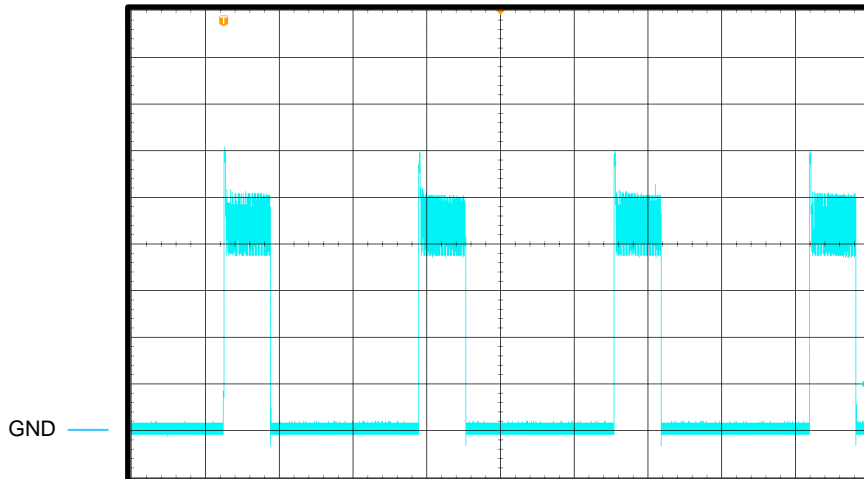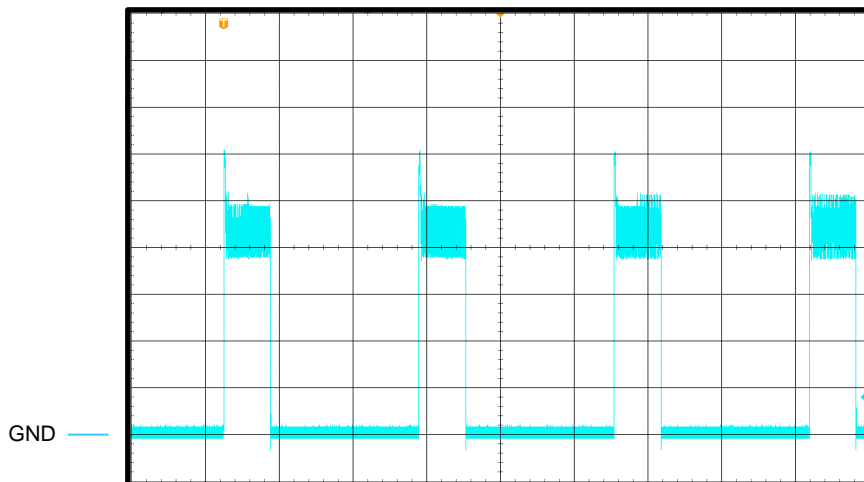
Input Voltage ： 100V

Short-circuit
current ： 60.8A

ON Time ： 254ms

Hiccup mode
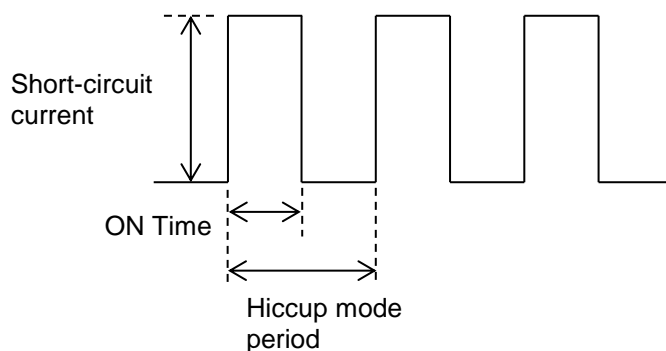time ： 1059ms

Time
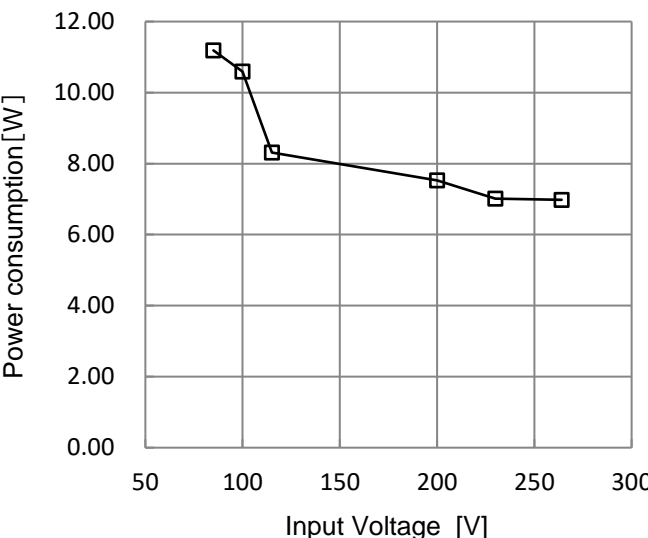[400ms/div]

Output
Current
[10A/div]

GND ———

Input Voltage ： 230V

Short-circuit
current ： 60.8A

ON Time ： 254ms

Hiccup mode
time ： 1059ms

Time
[400ms/div]

Short-circuit
current

ON Time

Hiccup mode
period

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Model	PCA1000F-32
Item	Input voltage - Power consumption
Object	————————

Temperature 25°C
Testing Circuitry -

Load : 0%

1.Graph

2.Values

Input voltage [V]	Power consumption [W]
85	11.19
100	10.60
115	8.31
200	7.52
230	7.01
264	6.98

Power consumption[W] vs Input Voltage [V]

Reducing standby power is possible by OFF signal of the remote control.

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Figure A

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