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EXTRA TEST DATA OF PCA1500F-32

Regulated DC Power Supply
Nov, 20, 2023
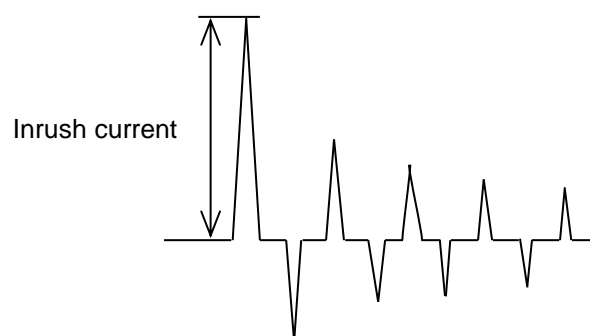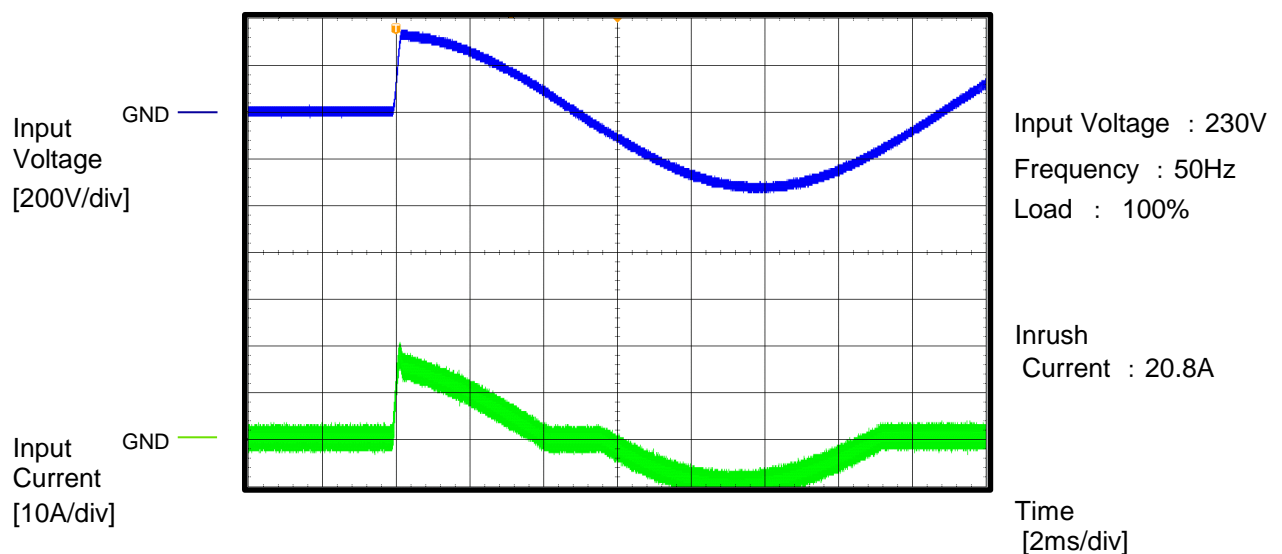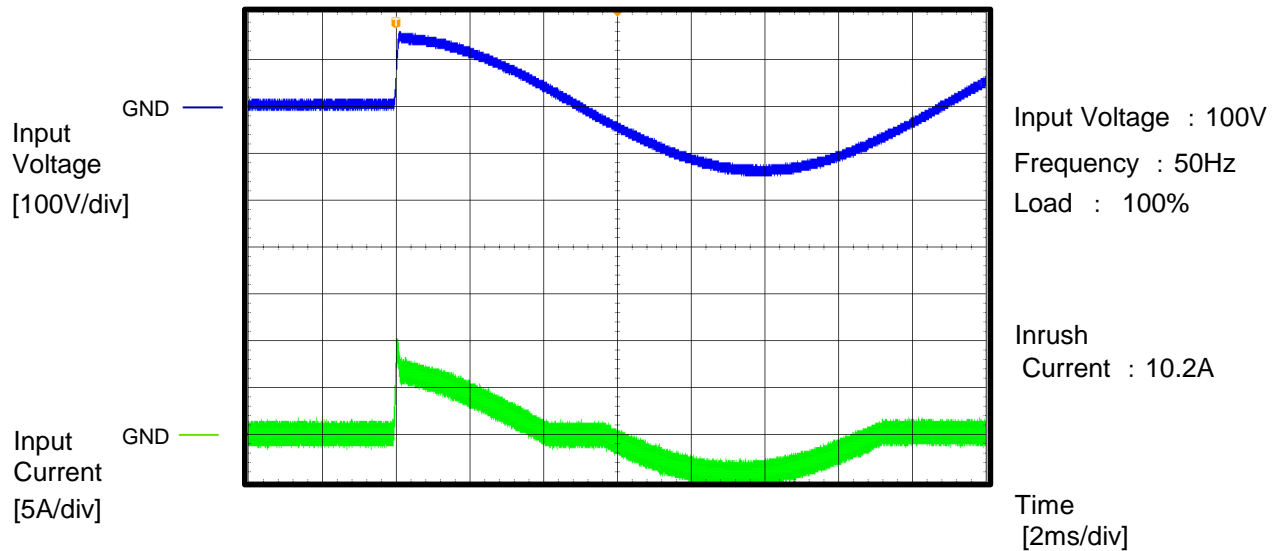
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Model	PCA1500F-32
Item	Inrush Current (enlargement)
Object	————————

Temperature   25°C
Testing Circuitry   A

Input
Voltage
[100V/div]

GND —

Input
Current
[5A/div]

GND —

Input Voltage : 100V

Frequency : 50Hz

Load : 100%

Inrush
 Current : 10.2A

Time
 [2ms/div]

Input
Voltage
[200V/div]

GND —

Input
Current
[10A/div]

GND —

Input Voltage : 230V

Frequency : 50Hz

Load : 100%

Inrush
 Current : 20.8A

Time
 [2ms/div]

Inrush current

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Model	PCA1500F-32
Item	Dynamic Line Regulation
Object	————————

Temperature　　　25°C
Testing Circuitry　A

Input Voltage　[200V/div]
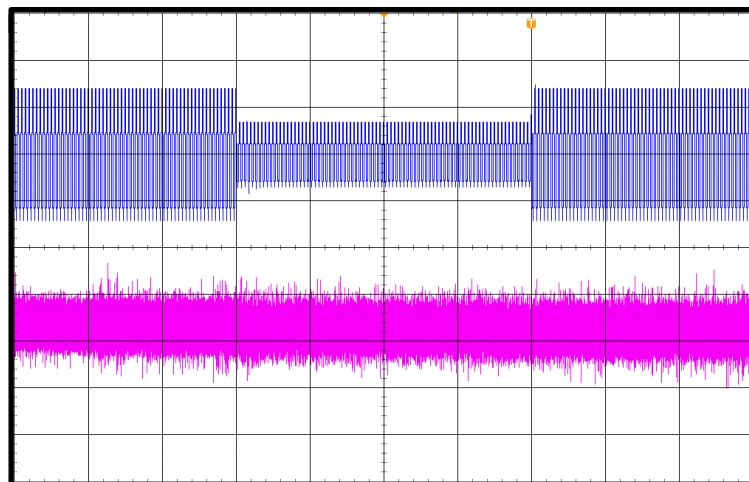
GND —

Output Voltage　[50mV/div]

GND —
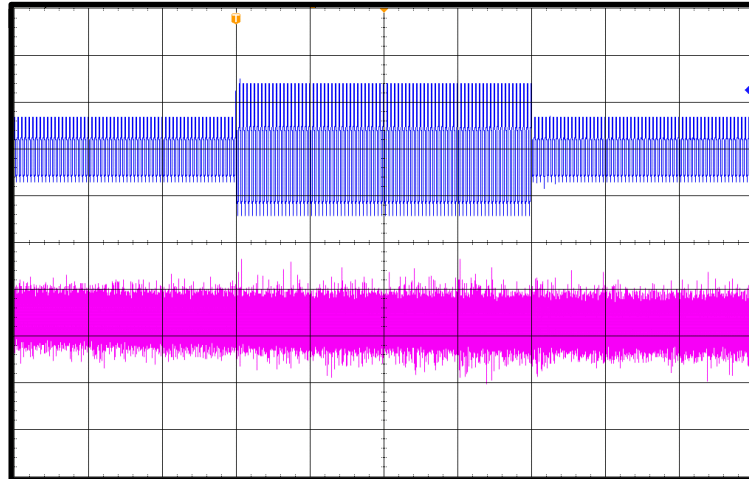
Input Voltage　:
　100V　⇔　230V

Frequency　: 50Hz
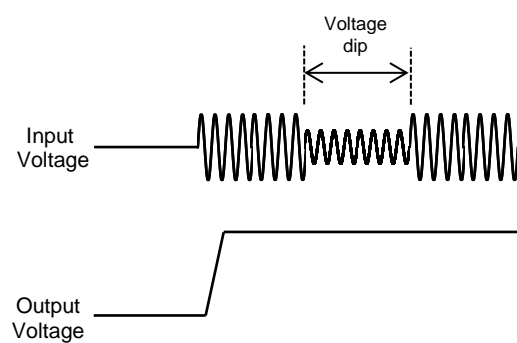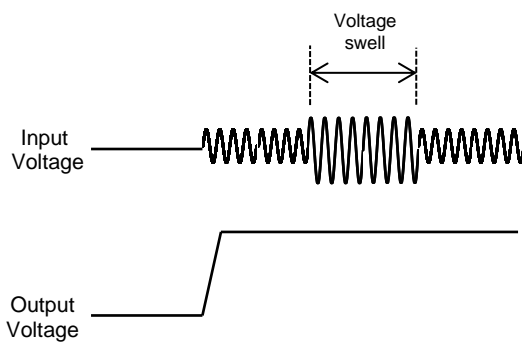
Load　:100%

Time
　[400ms/div]

Input Voltage　[200V/div]

GND —

Output Voltage　[50mV/div]

GND —

Input Voltage　:
　230V　⇔　100V
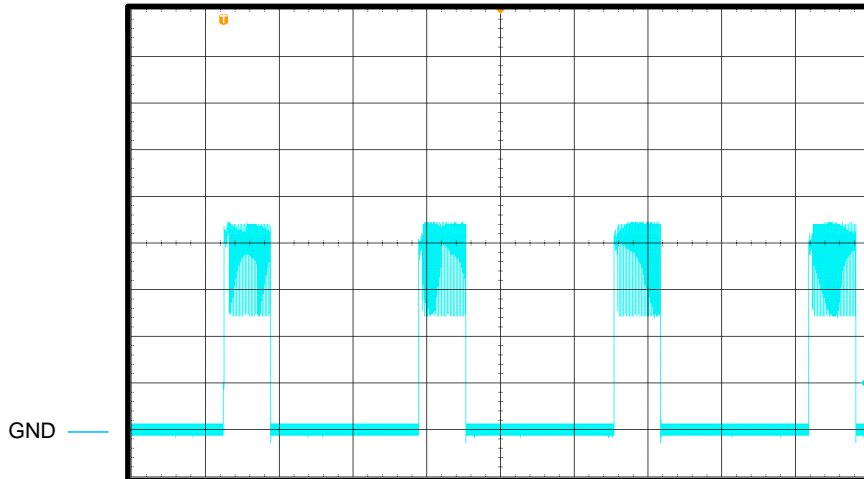
Frequency　: 50Hz

Load　:100%

Time
　[400ms/div]

Voltage swell

Input Voltage

Output Voltage

Voltage dip

Input Voltage

Output Voltage

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Model	PCA1500F-32
Item	Hiccup cycle (by Overcurrent Protection)
Object	————————

Temperature   25°C
Testing Circuitry   A

Load   :   Short

Output
Current
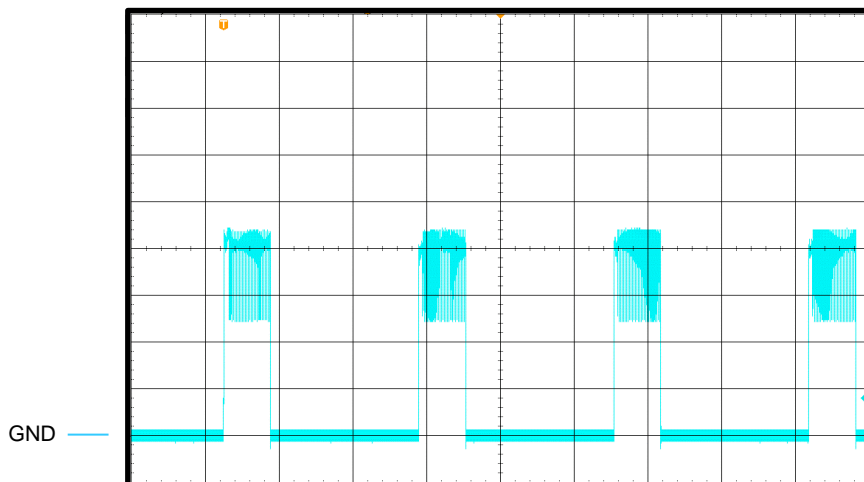[25A/div]

GND

Input Voltage : 100V

Short-circuit
current : 111A

ON Time : 254ms

Hiccup mode
time : 1059ms

Time
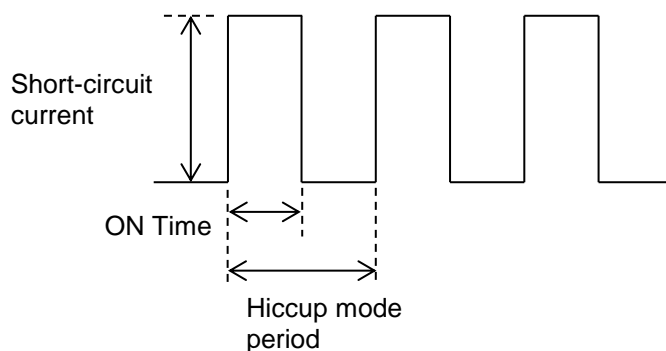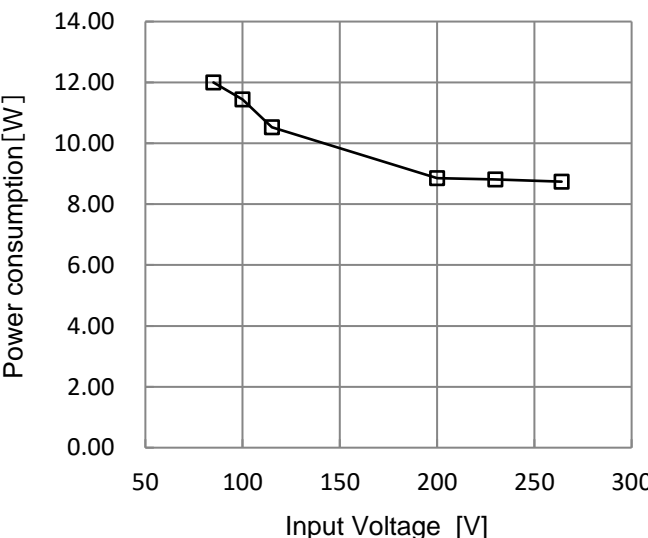[400ms/div]

Output
Current
[25A/div]

GND

Input Voltage : 230V

Short-circuit
current : 111A

ON Time : 254ms

Hiccup mode
time : 1059ms

Time
[400ms/div]

Short-circuit
current

ON Time

Hiccup mode
period

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Model	PCA1500F-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	12.00
100	11.44
115	10.53
200	8.86
230	8.81
264	8.74

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

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Temperature Chamber

AC Power Supply	Electronic Switch	Power Meter

Power Supply

Electronic DC Load

Oscilloscope

Relay Unit

DVM

Data Acquisition/Control Unit

Figure A

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