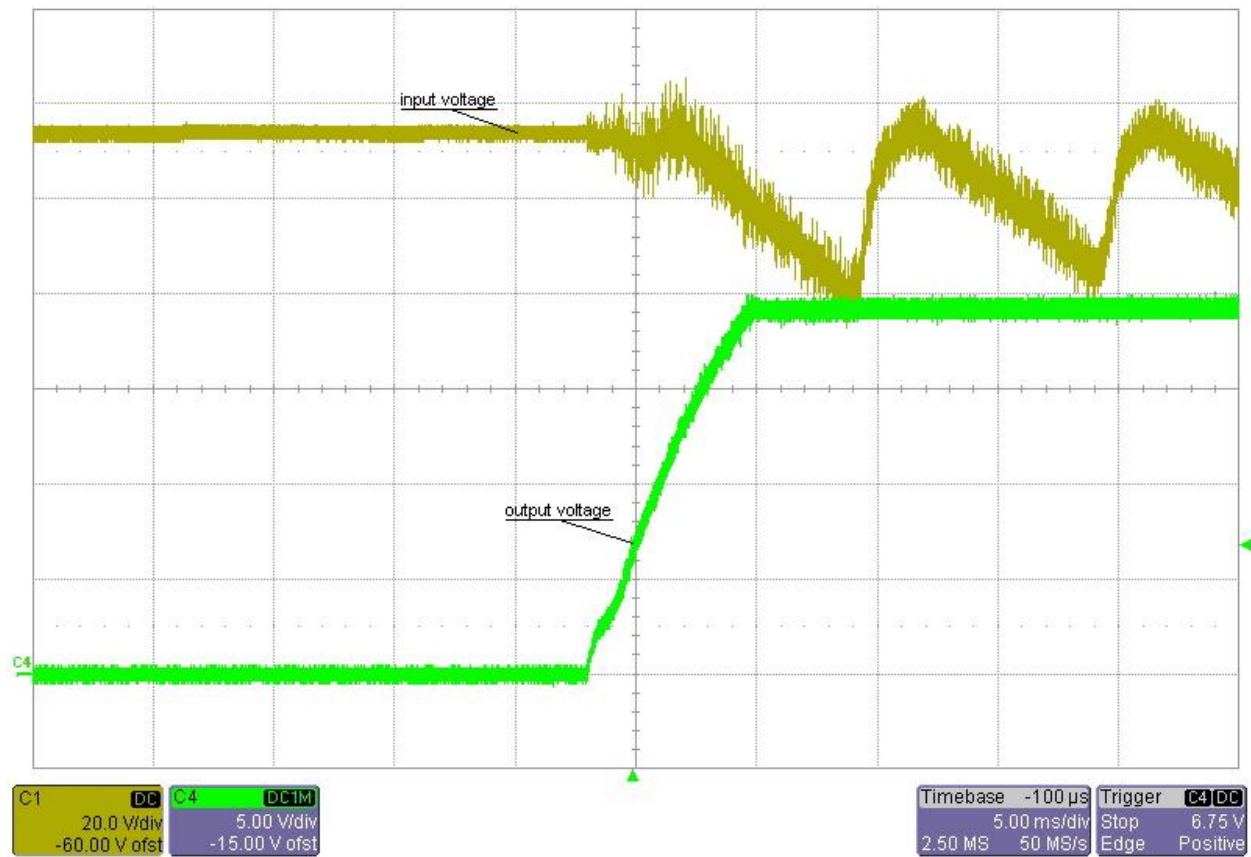


## 1 Startup

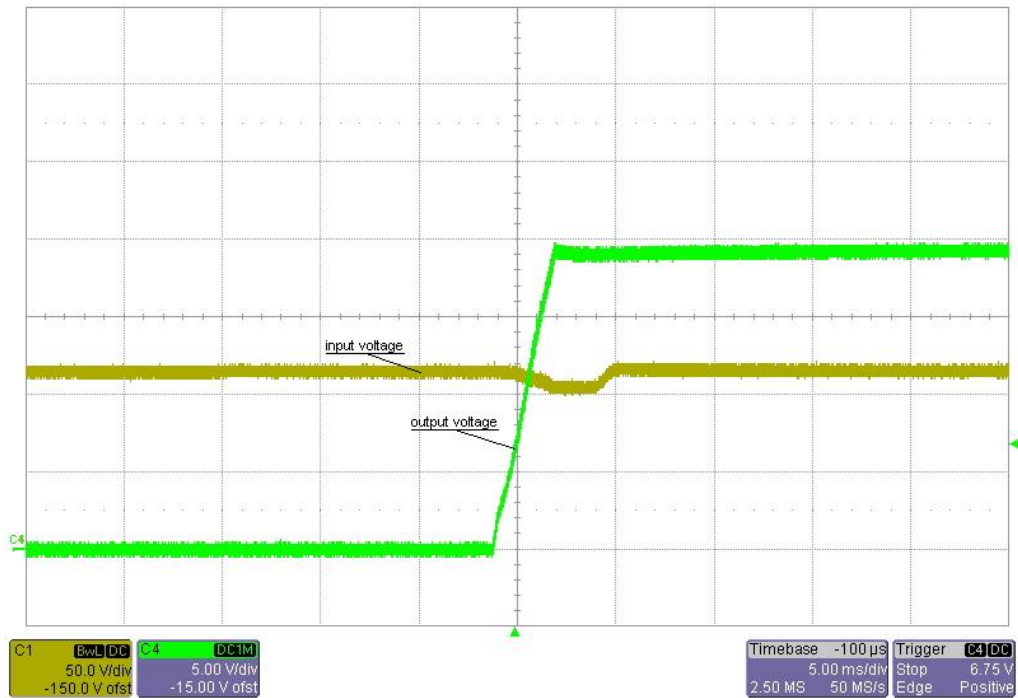
Input voltage = 85VAC  
Load current = full load (3.84A)



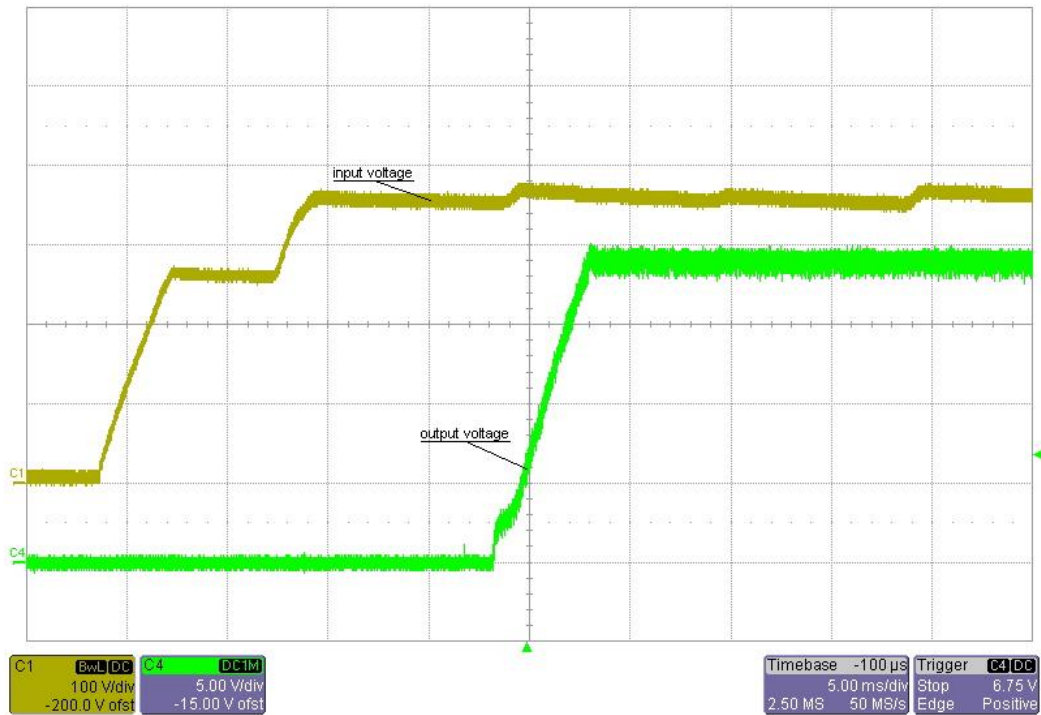
# PMP10100\_RevA Test Results



Input voltage = 85VAC  
Load current = no load

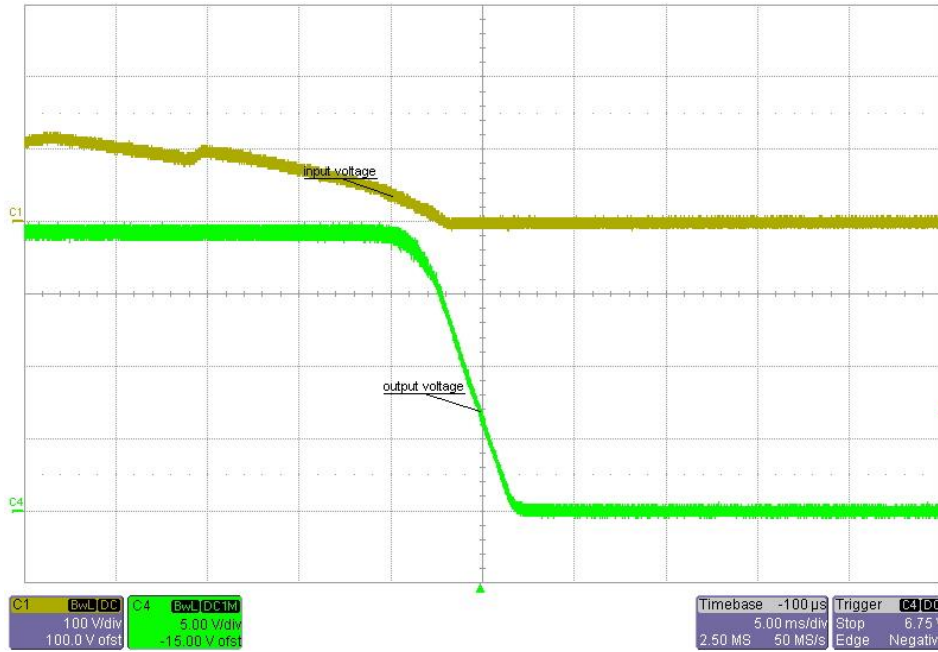


Input voltage = 265VAC  
Load current = full load (3.84A)

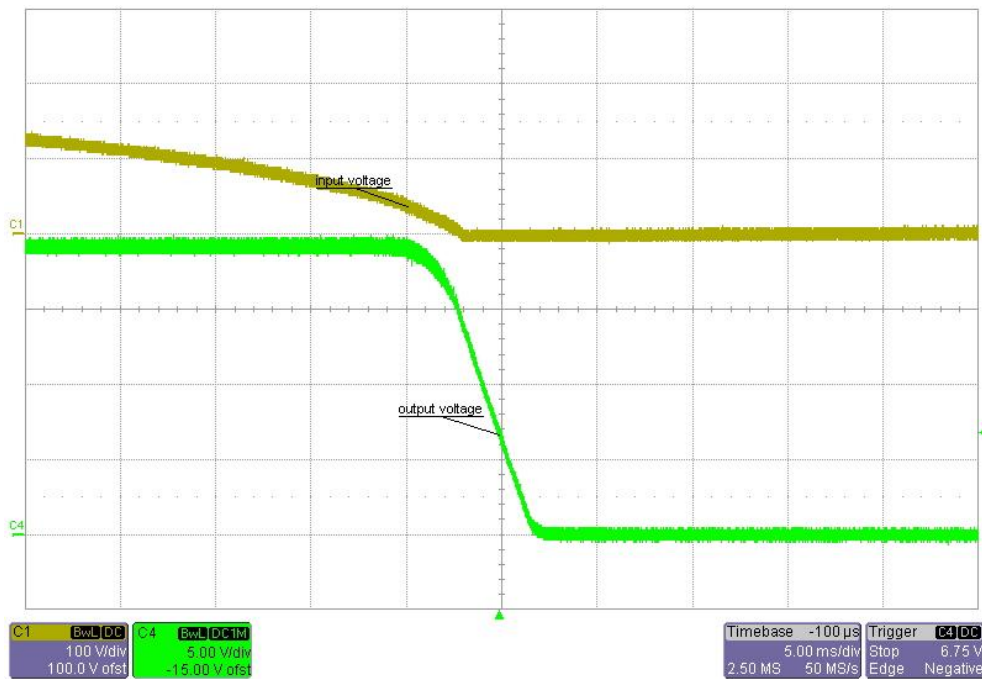


## 2 Shutdown

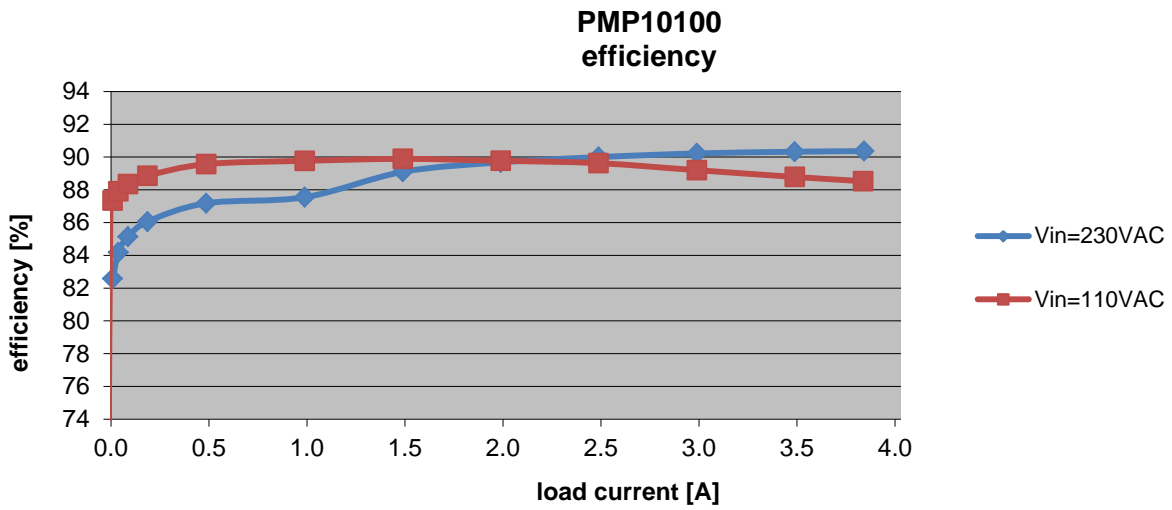
Input voltage = 85VAC  
Load current = full load (3.84A)



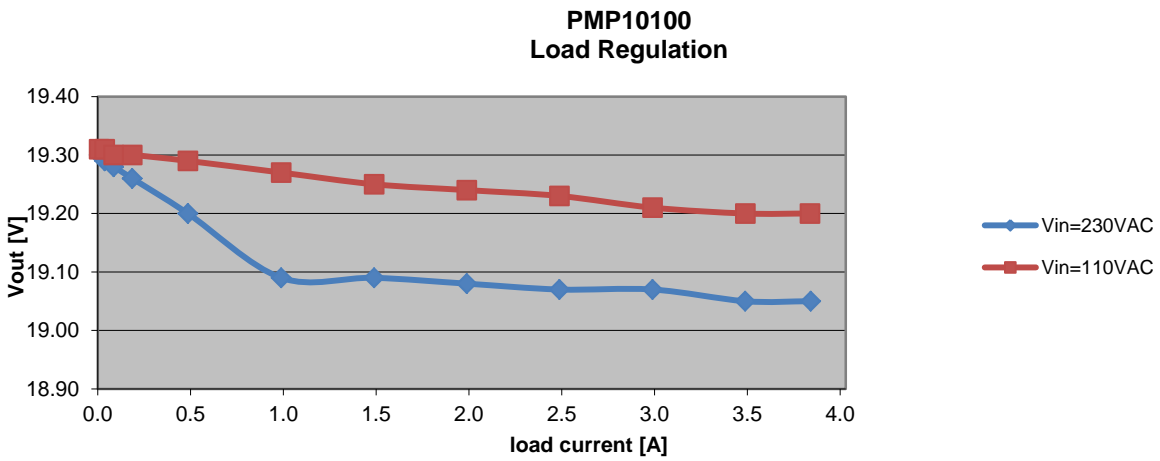
Input voltage = 265VAC  
Load current = full load (3.84A)



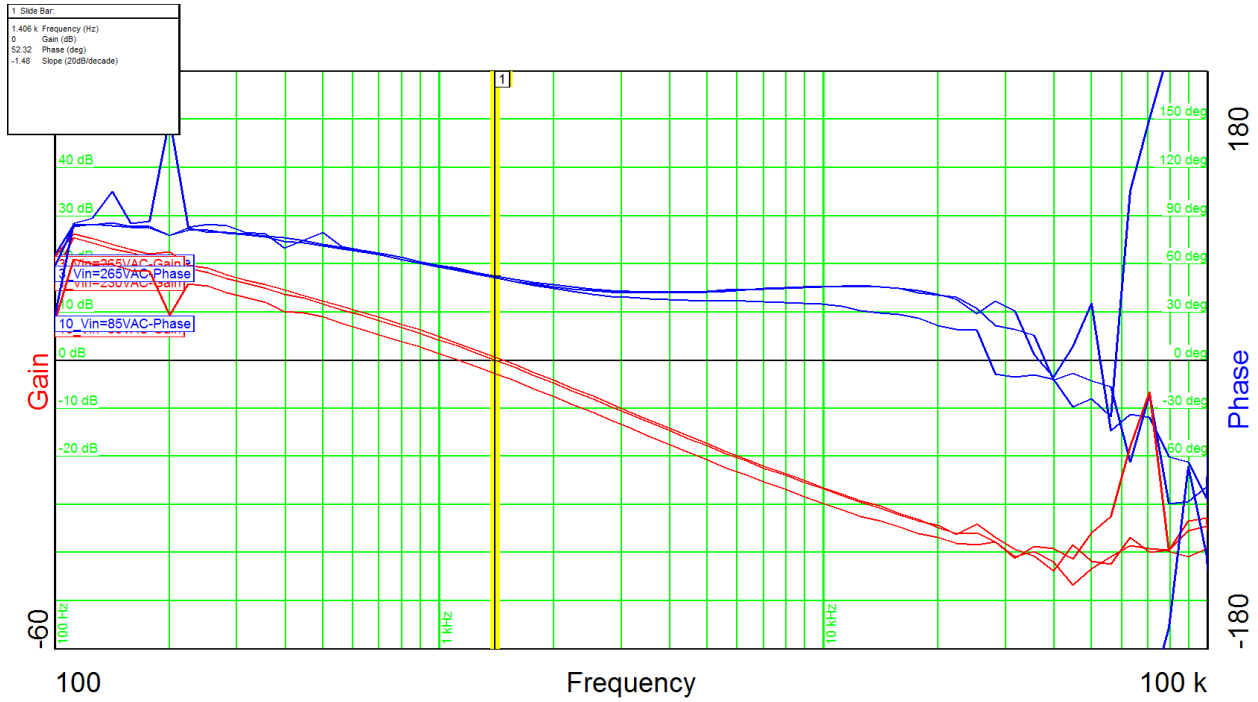
### 3 Efficiency



### 4 Load regulation



### 5 Control Loop Frequency Response



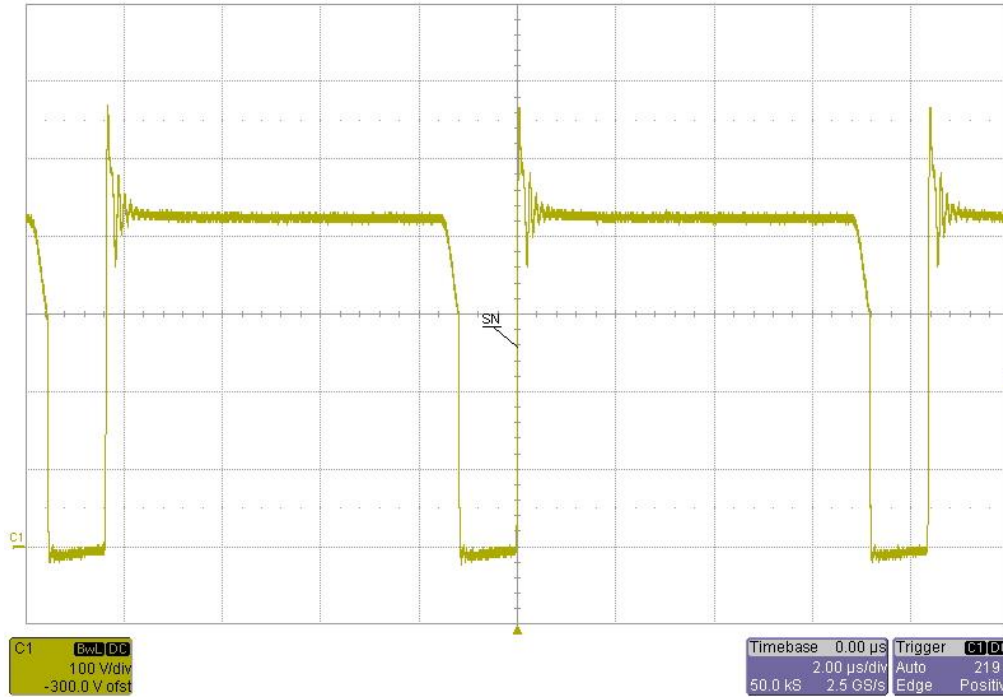
Output power = 19.5V@3.84A  
 Input voltage = 85VAC  
 Phase margin = 56°  
 Bandwidth = 1.1kHz

Output power = 19.5V@3.84A  
 Input voltage = 230VAC  
 Phase margin = 52°  
 Bandwidth = 1.4kHz

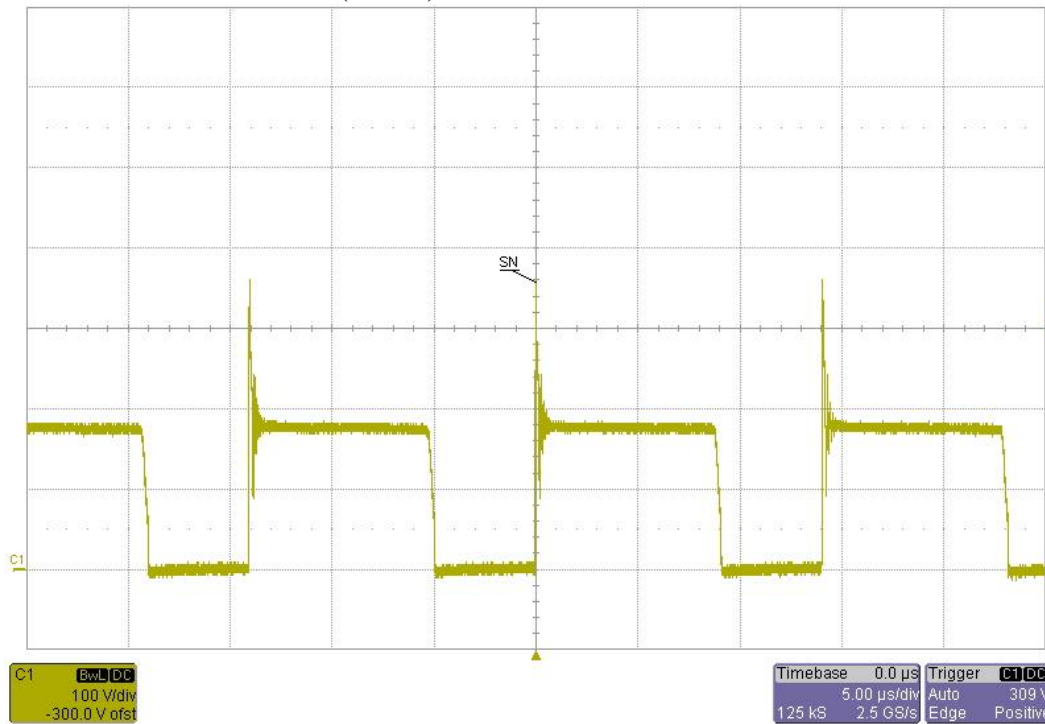
Output power = 19.5V@3.84A  
 Input voltage = 265VAC  
 Phase margin = 51°  
 Bandwidth = 1.5kHz

## 6 Switch Node

Input voltage = 265VAC  
 Load current = full load (3.84A)



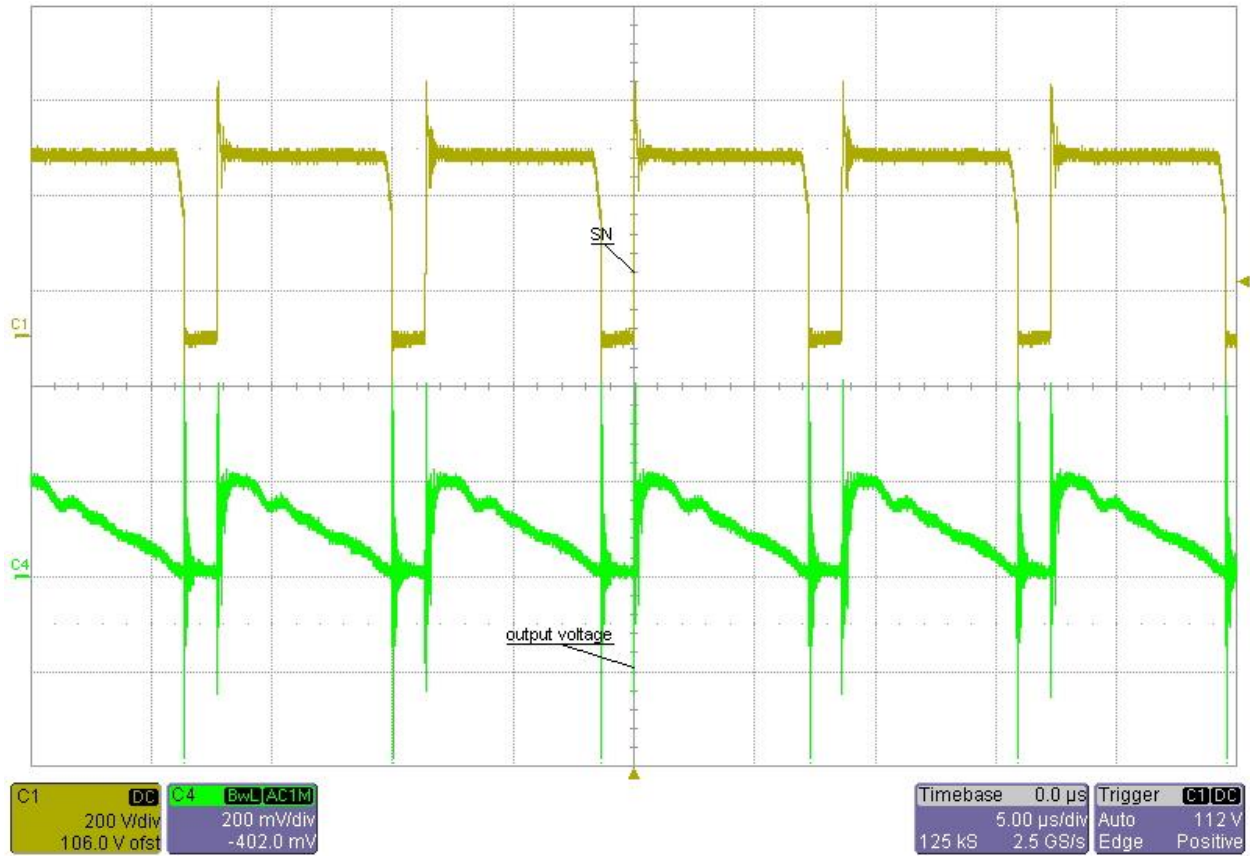
Input voltage = 85VAC  
 Load current = full load (3.84A)



## 7 Output ripple voltage

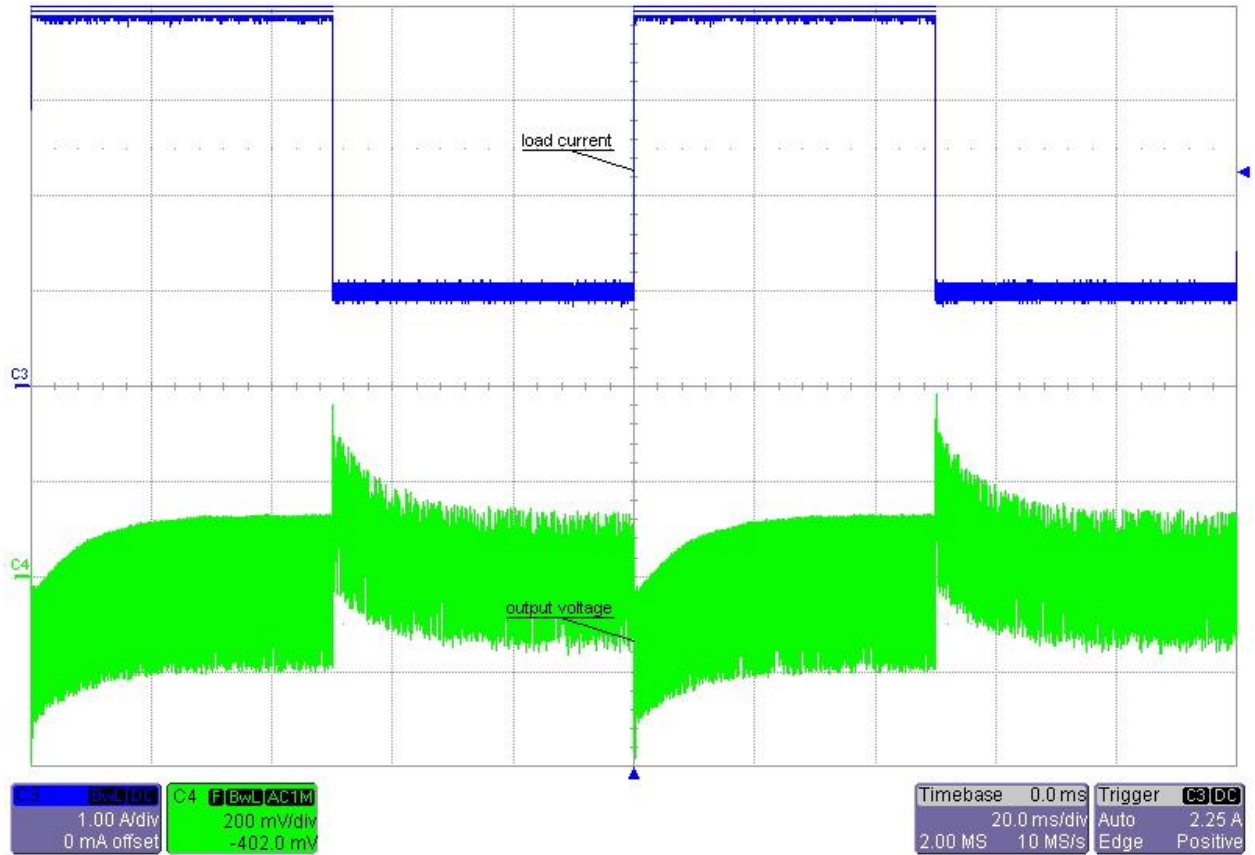
Input voltage = 230VAC

Load current = full load (3.84A)



## 8 Load Transients

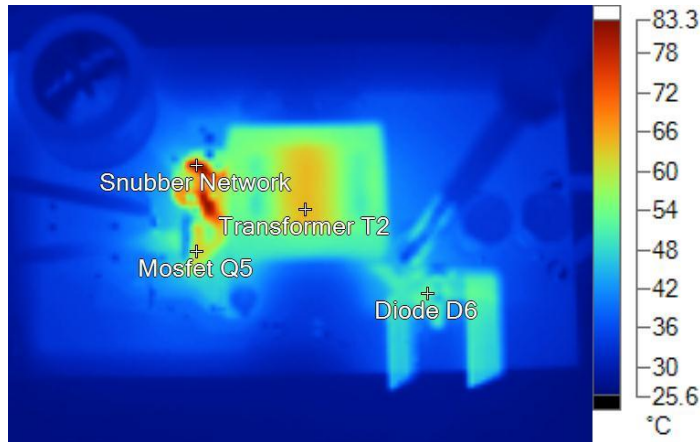
Input voltage = 230VAC  
Load current = 1A to 4A





## 9 Thermal Analysis

The images below show the infrared images taken from the FlexCam after 15min at full load (19.5V@3.84A).



Name	Temperature
Transformer T2	64.3°C
Mosfet Q5	62.3°C
Snubber Network	83.3°C
Diode D6	52.8°C

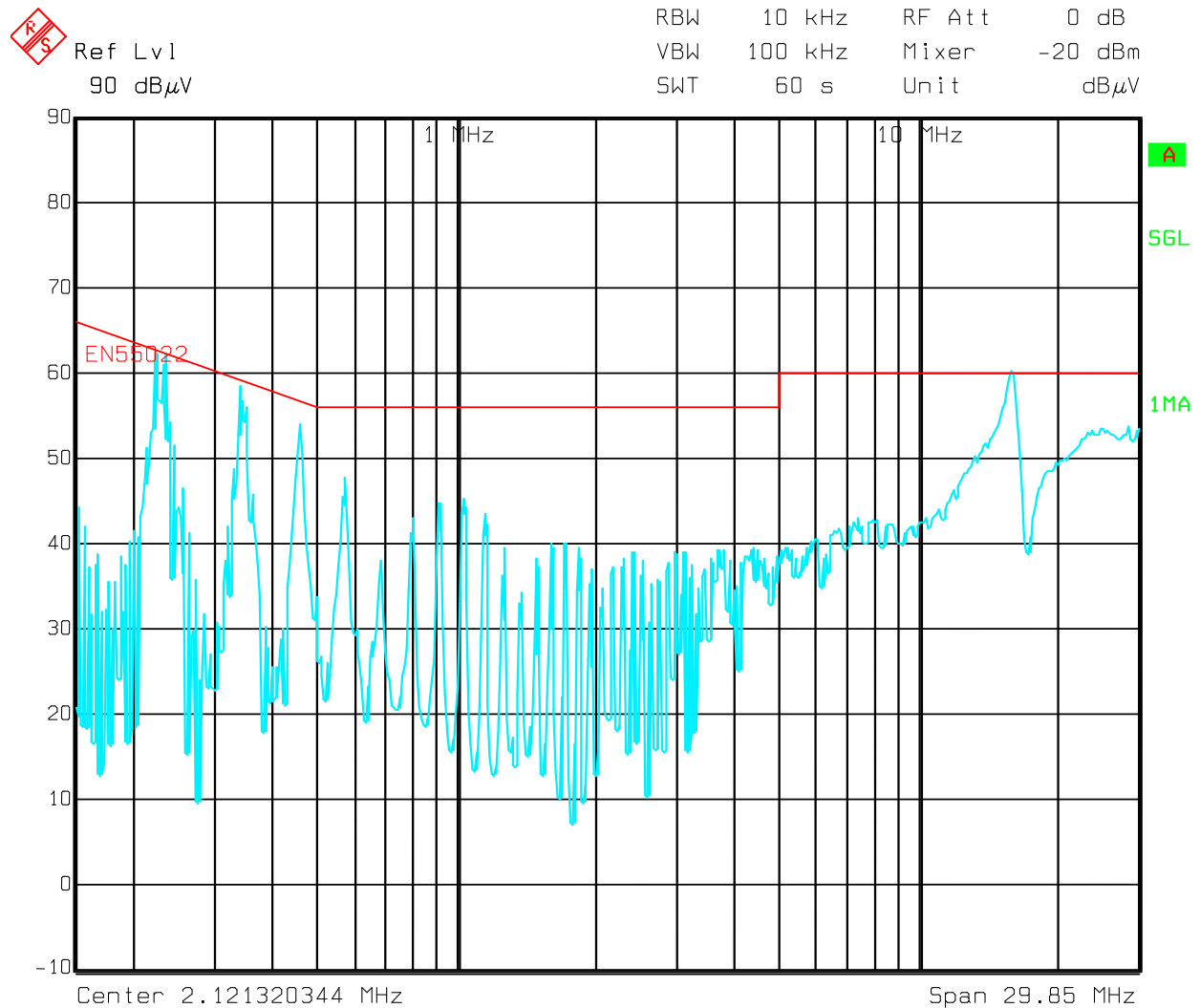
IR20150511\_0574 full load Vin=325VDC.is2

## 10 EMI Measurement

The graph below shows the conducted emission EMI noise and the EN55022 Class-B Quasi-Peak limits (measurement from the worst case line). The measurement is not certified. The load was connected to a LISN and an isolation transformer; the load was a power resistor. The receiver was set to Quasi-peak detector, 10 KHz bandwidth. The negative terminal of the converter has been connected to the ground of the LISN.

Input voltage = 230VAC

Load current = 3.84A

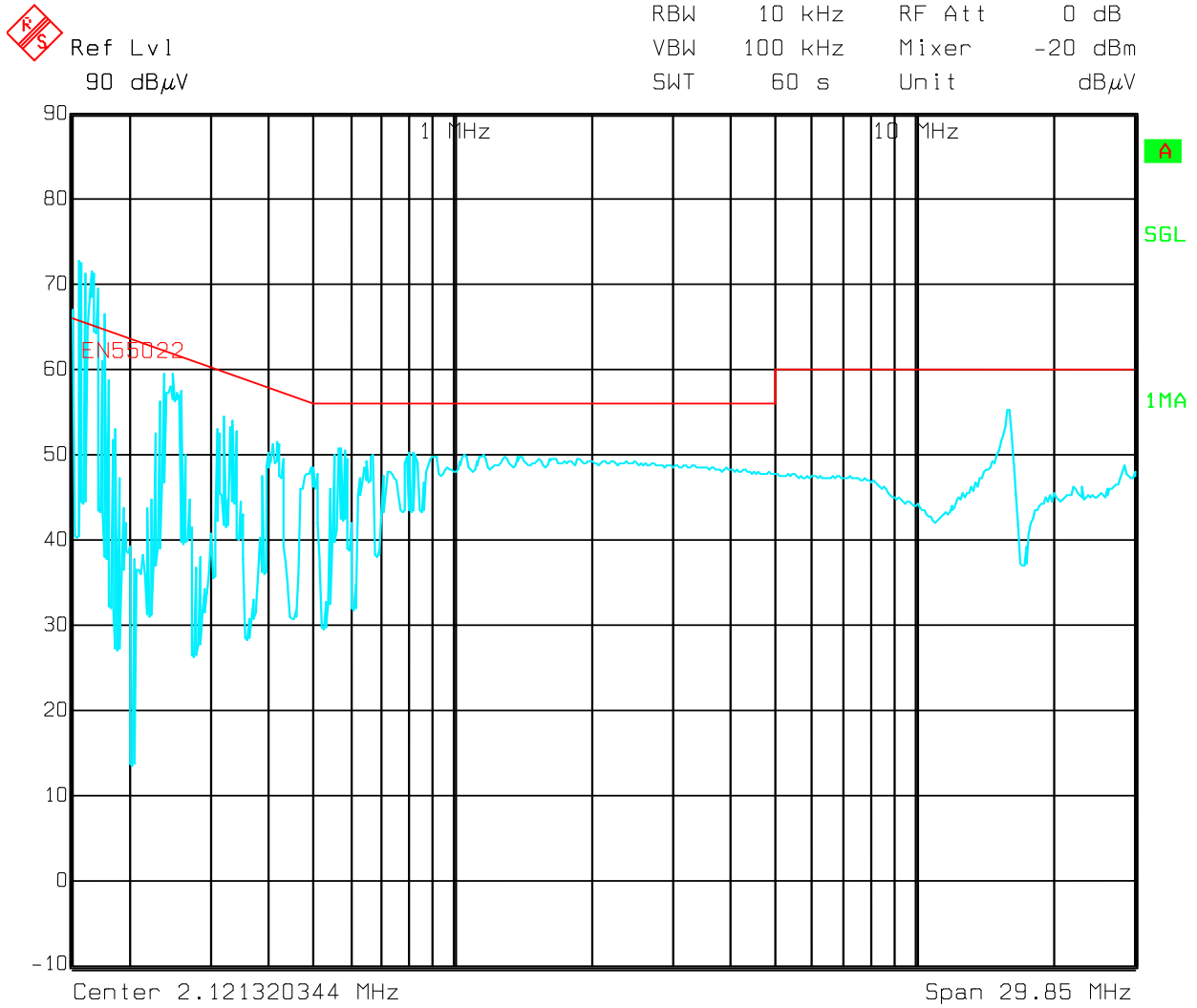


Date: 12.MAY.2015 13:14:52

# PMP10100\_RevA Test Results



Input voltage = 110VAC  
Load current = 3.84A



Date: 12.MAY.2015 13:09:36

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