



PFC用扼流圈 动态特性数据

插针端子型

PFC QM系列

PFC3514QM

PFC3318QM

PFC3519QM

PFC3819QM

PFC4124QM

PFC用扼流圈

PFC QM系列

■特点

- PFC QM 系列具有薄型（15.5～25 毫米）。
- 额定输入电压对应AC100～240V。
- PFC输出功率对应75～300W。

■目录

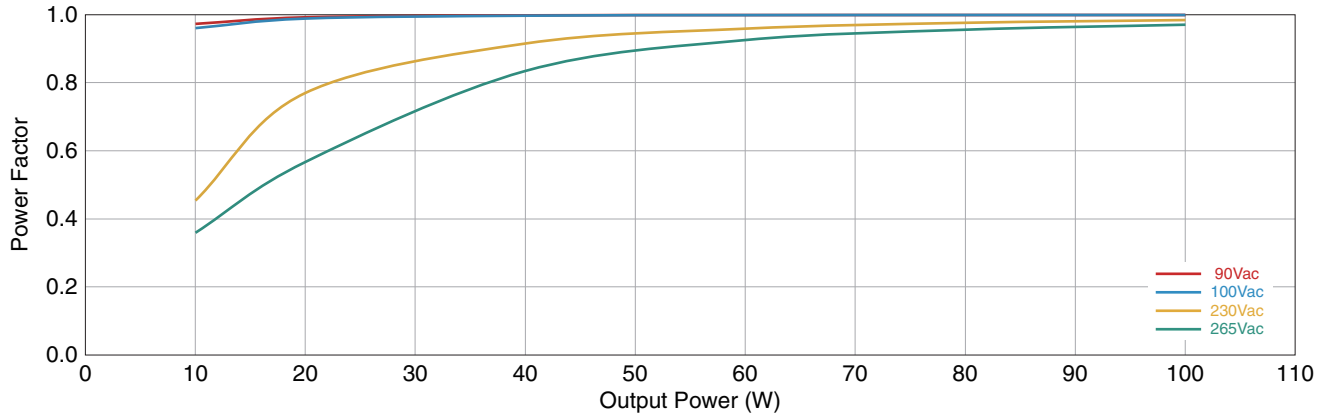
型号	高度	PFC 输出功率	页
PFC3514QM-351K04B-00	15.5mm	100W	3
PFC3514QM-281K05B-00	15.5mm	125W	5
PFC3514QM-231K06B-00	15.5mm	150W	7
PFC3318QM-601K03B-00	20mm	75W	9
PFC3318QM-601K03E-00	20mm	75W	11
PFC3318QM-451K04B-00	20mm	100W	13
PFC3519QM-451K04E-00	21mm	100W	15
PFC3519QM-301K06B-50	21mm	150W	17
PFC3519QM-231K07B-50	21mm	200W	19
PFC3819QM-301K06E-50	21mm	150W	21
PFC3819QM-231K07D-50	21mm	200W	23
PFC3819QM-181K09B-50	21mm	250W	25
PFC3819QM-151K11B-00	21mm	300W	27
PFC4124QM-181K09D-00	25mm	250W	29
PFC4124QM-151K11D-00	25mm	300W	31
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参考电路图		125 ～ 300W	34

PFC QM系列 **PFC3514QM-351K04B-00**

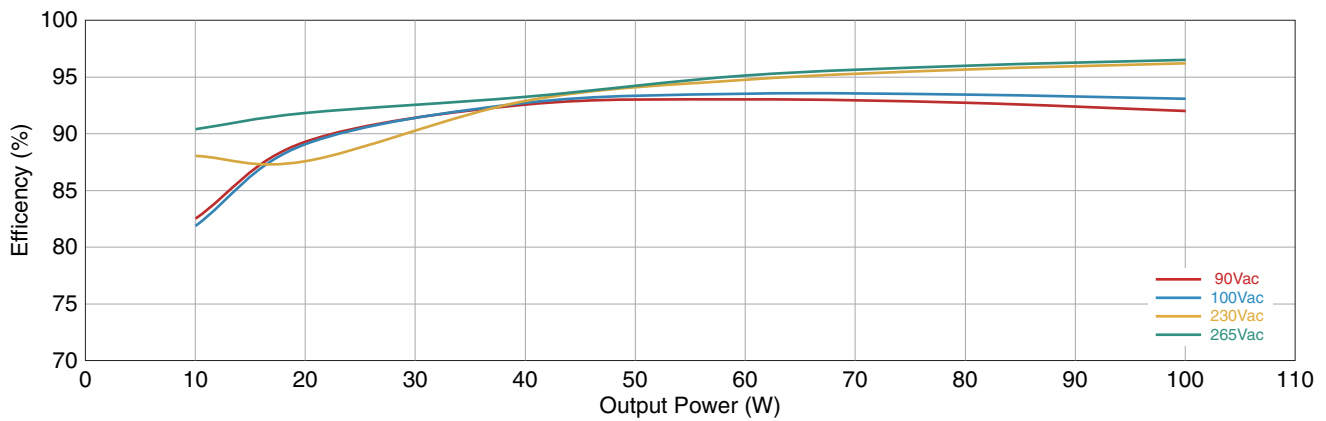
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



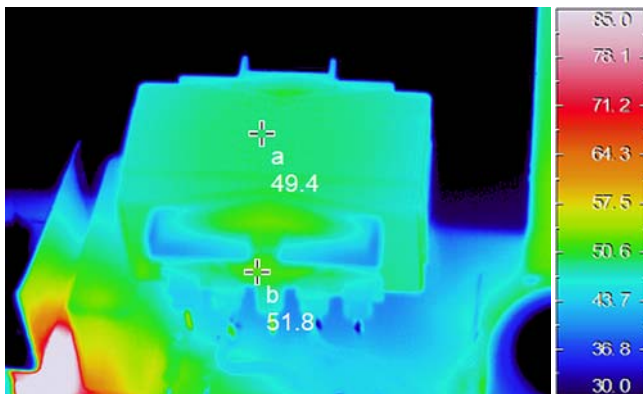
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 396Vdc, Pout = 100W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

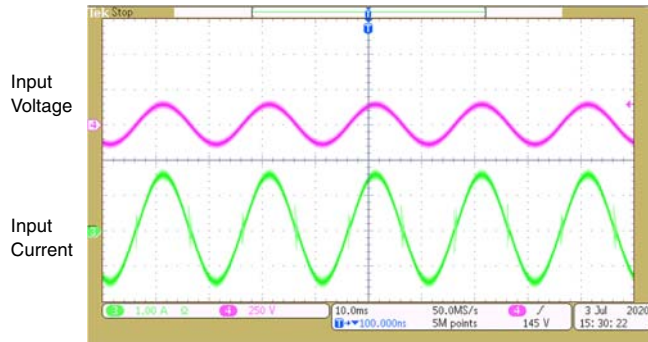
PFC QM系列 **PFC3514QM-351K04B-00**

■ 参考工作波形

□ Input Voltage / Current

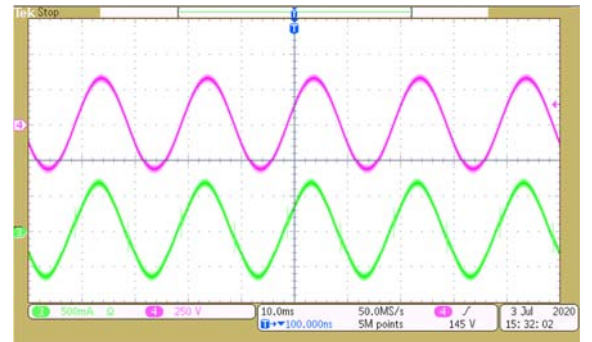
Vin=100Vac, Po=100W

1A/div 250V/div 10ms/div



Vin=230Vac, Po=100W

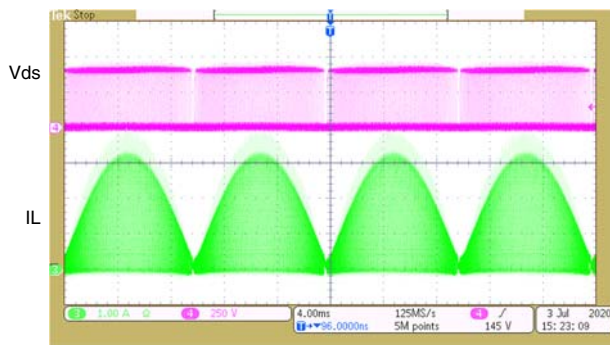
0.5A/div 250V/div 10ms/div



□ Vds / IL

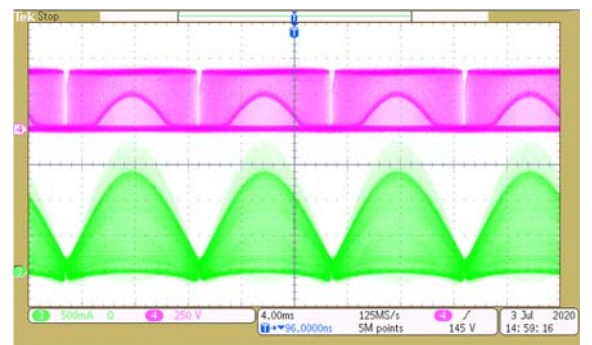
Vin=100Vac, Po=100W

1A/div 250V/div 4ms/div



Vin=230Vac, Po=100W

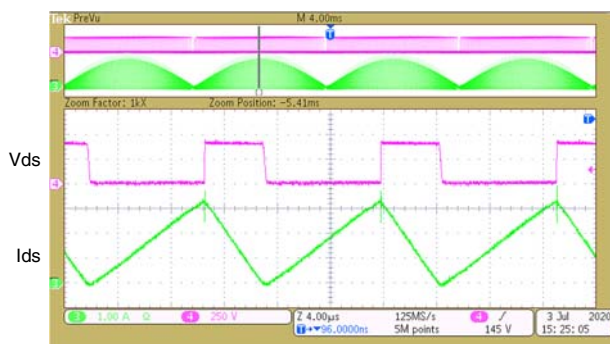
0.5A/div 250V/div 4ms/div



□ Vds / Ids

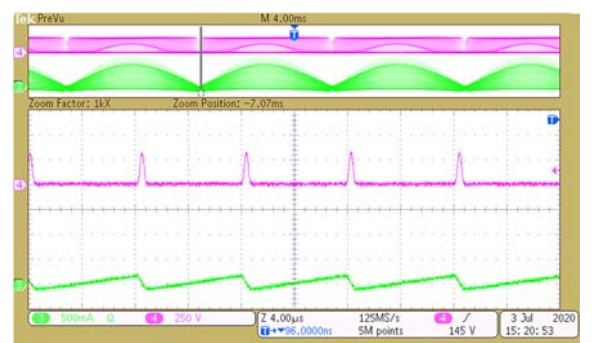
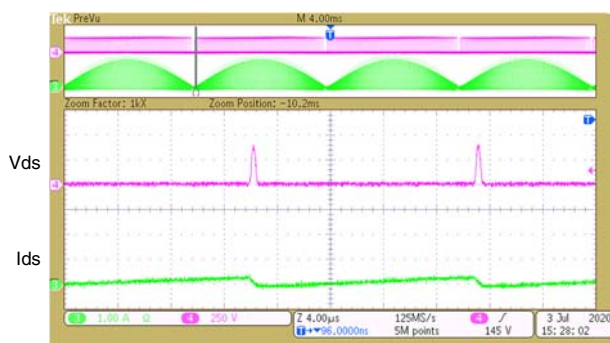
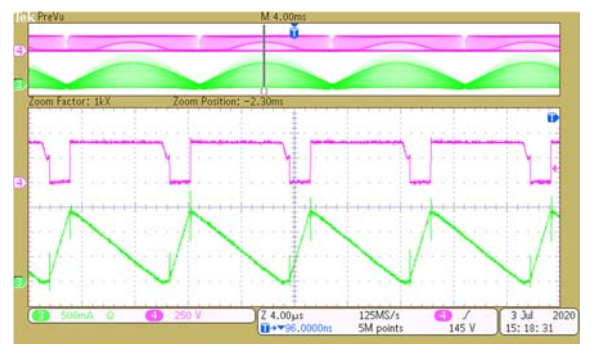
Vin=100Vac, Po=100W

1A/div 250V/div 4μs/div



Vin=230Vac, Po=100W

0.5A/div 250V/div 4μs/div

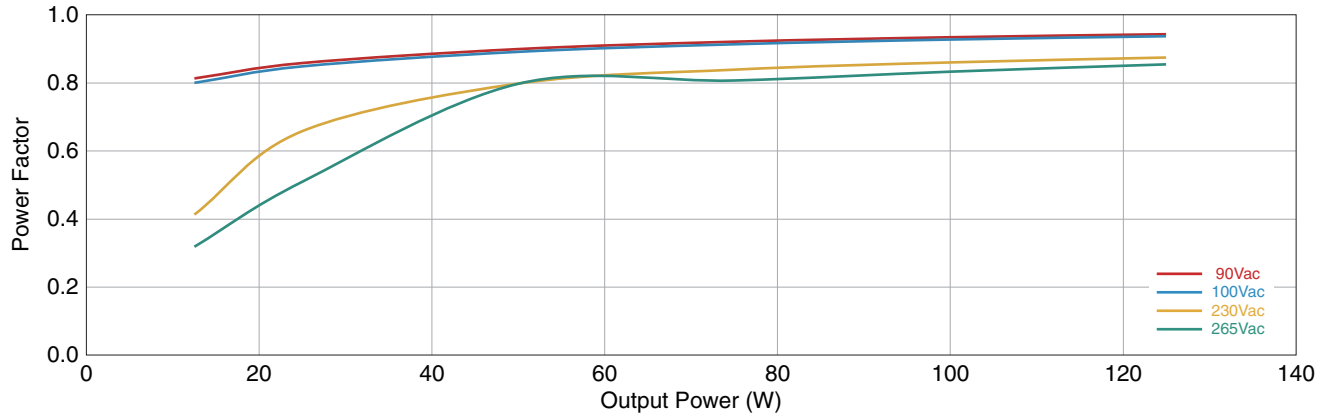


PFC QM系列 **PFC3514QM-281K05B-00**

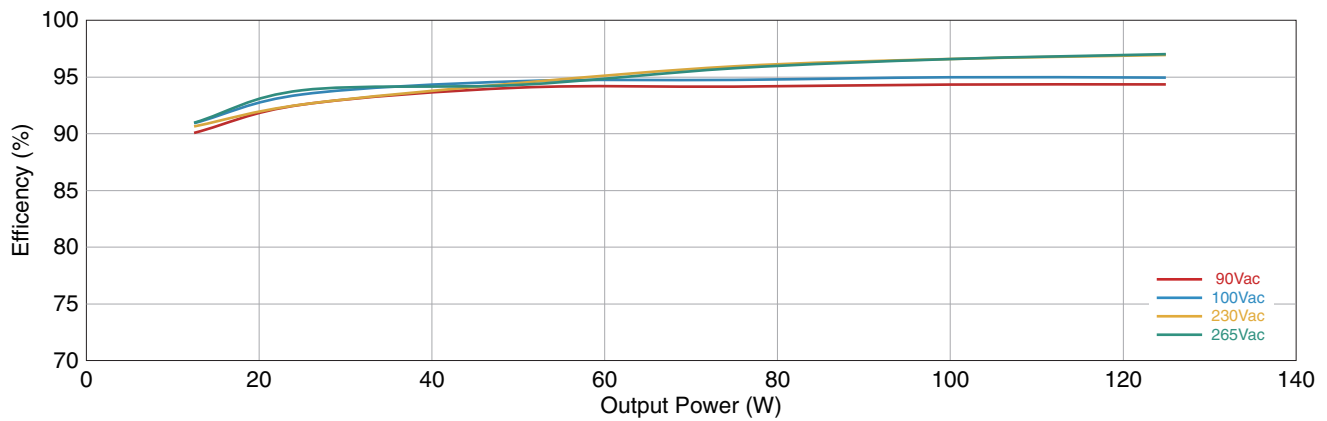
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



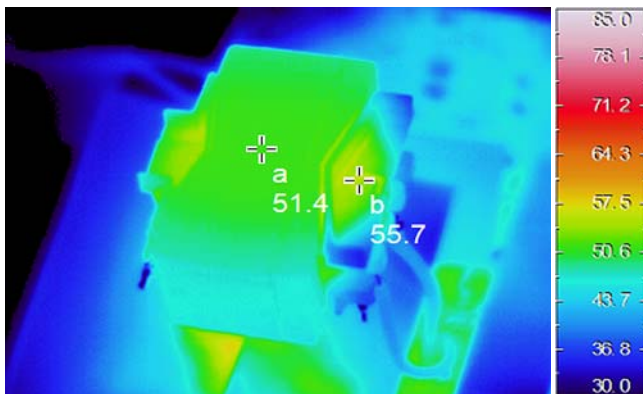
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 392Vdc, Pout = 125W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

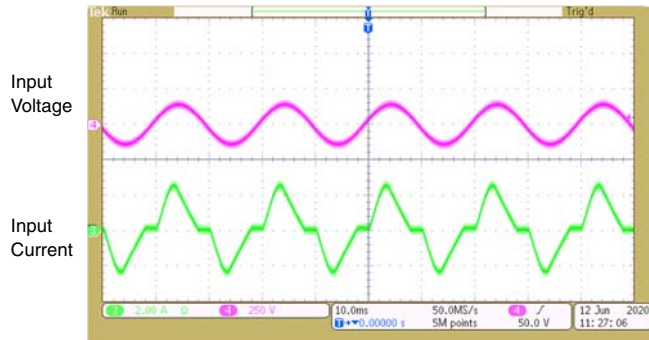
PFC QM系列 **PFC3514QM-281K05B-00**

■ 参考工作波形

□ Input Voltage / Current

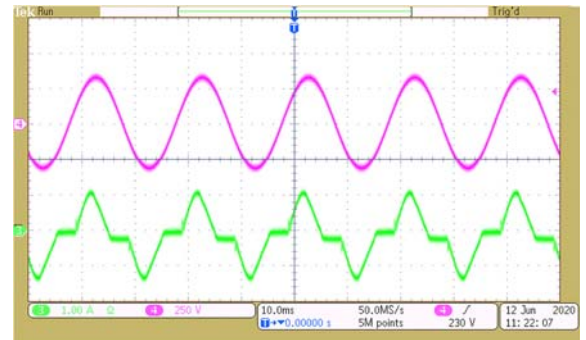
Vin=100Vac, Po=125W

2A/div 250V/div 10ms/div



Vin=230Vac, Po=125W

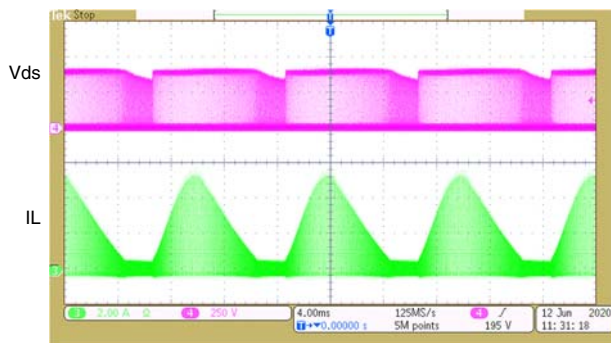
1A/div 250V/div 10ms/div



□ Vds / IL

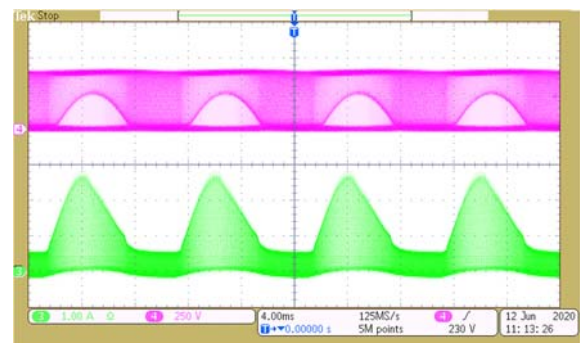
Vin=100Vac, Po=125W

2A/div 250V/div 4ms/div



Vin=230Vac, Po=125W

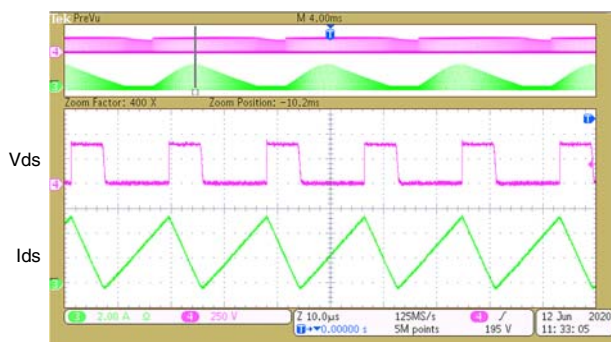
1A/div 250V/div 4ms/div



□ Vds / Ids

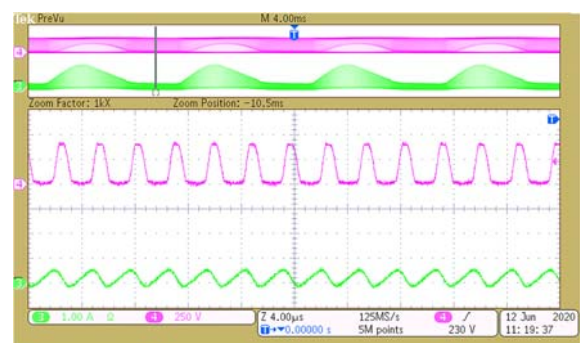
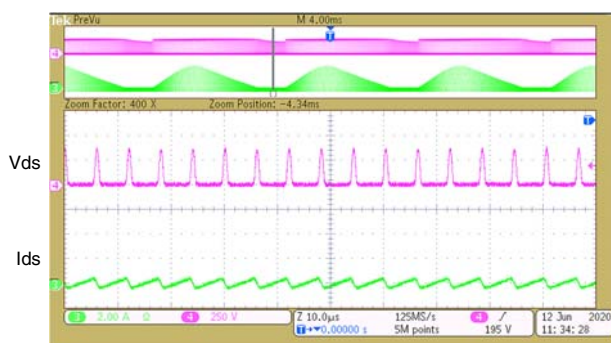
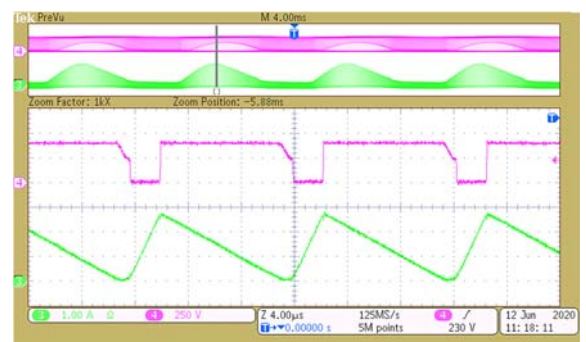
Vin=100Vac, Po=125W

2A/div 250V/div 10μs/div



Vin=230Vac, Po=125W

1A/div 250V/div 4μs/div

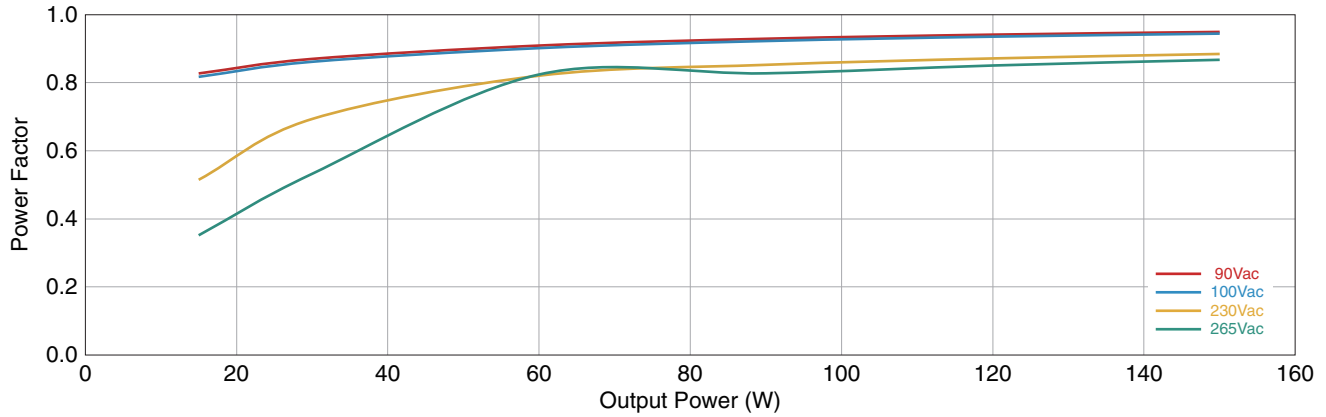


PFC QM系列 **PFC3514QM-231K06B-00**

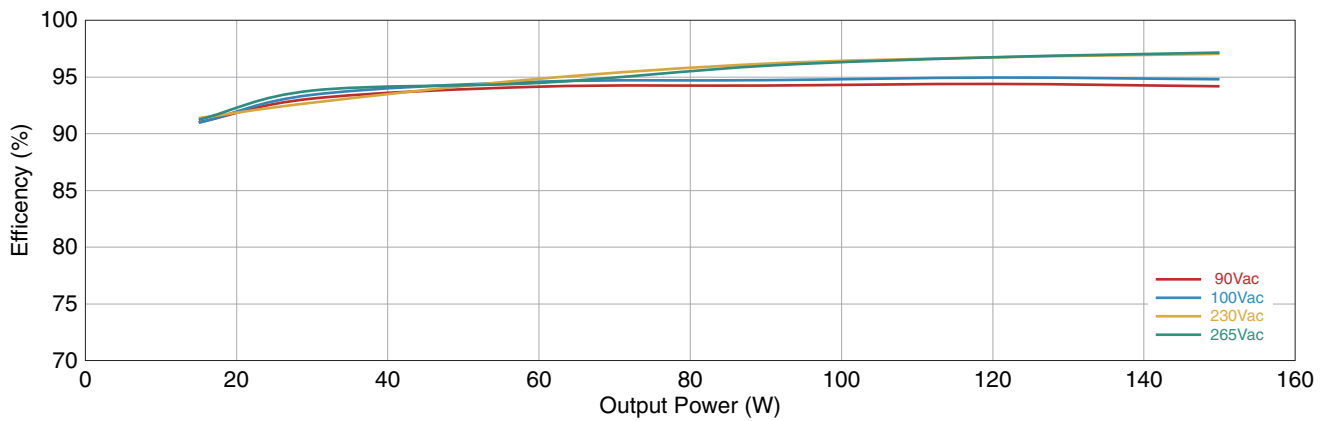
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



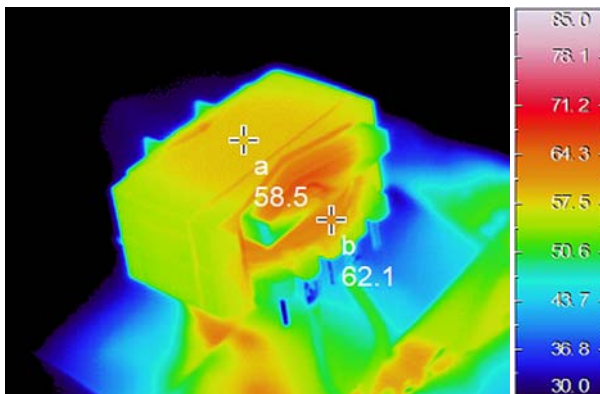
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 392Vdc, Pout = 150W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

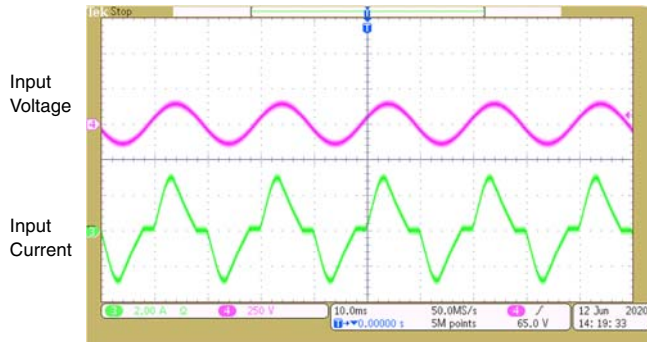
PFC QM系列 **PFC3514QM-231K06B-00**

■ 参考工作波形

□ Input Voltage / Current

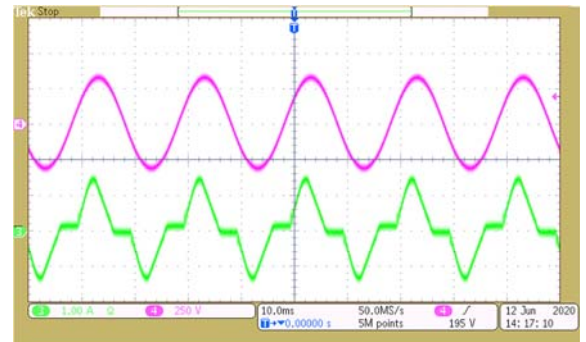
Vin=100Vac, Po=150W

2A/div 250V/div 10ms/div



Vin=230Vac, Po=150W

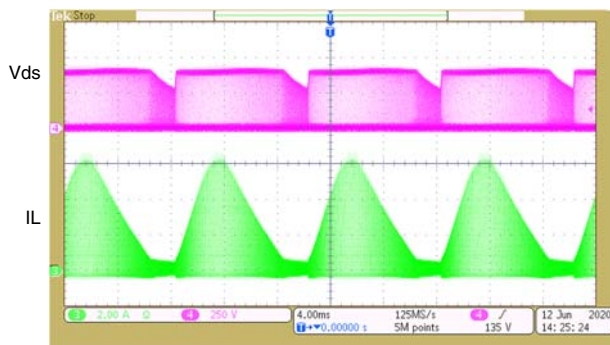
1A/div 250V/div 10ms/div



□ Vds / IL

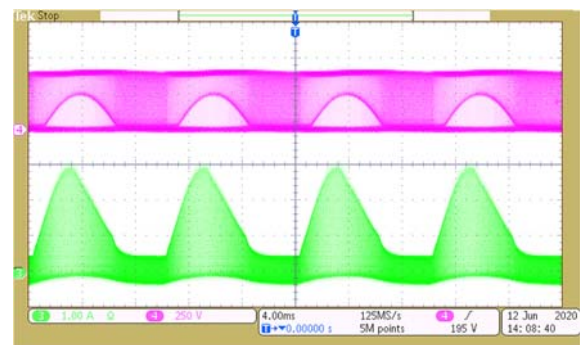
Vin=100Vac, Po=150W

2A/div 250V/div 4ms/div



Vin=230Vac, Po=150W

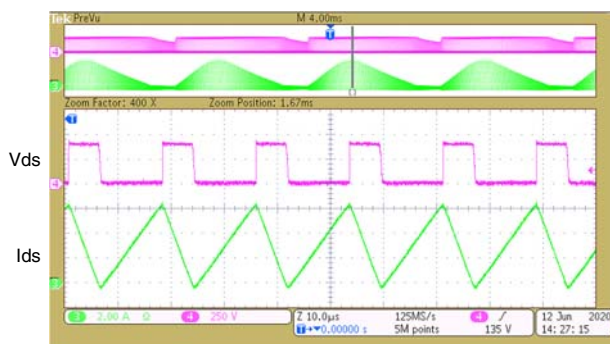
1A/div 250V/div 4ms/div



□ Vds / Ids

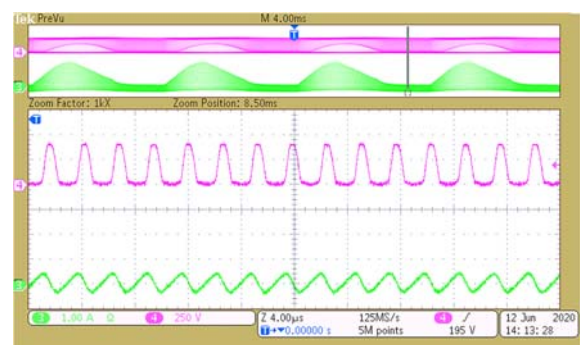
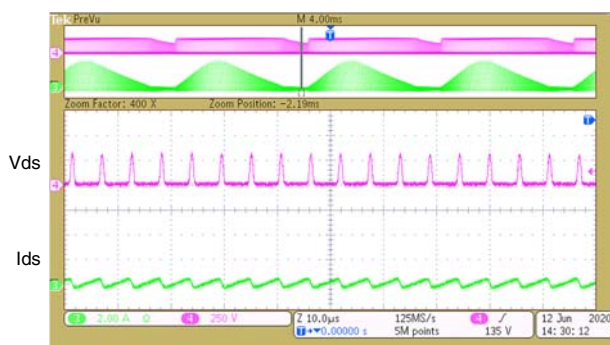
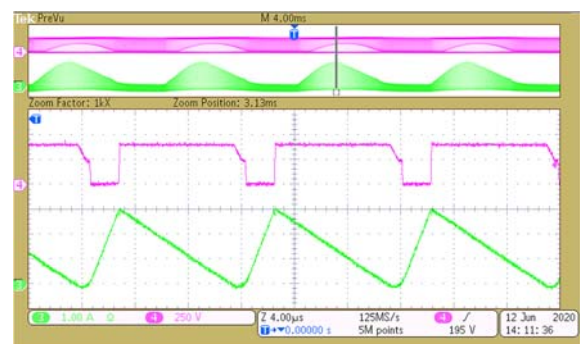
Vin=100Vac, Po=150W

2A/div 250V/div 10μs/div



Vin=230Vac, Po=150W

1A/div 250V/div 4μs/div

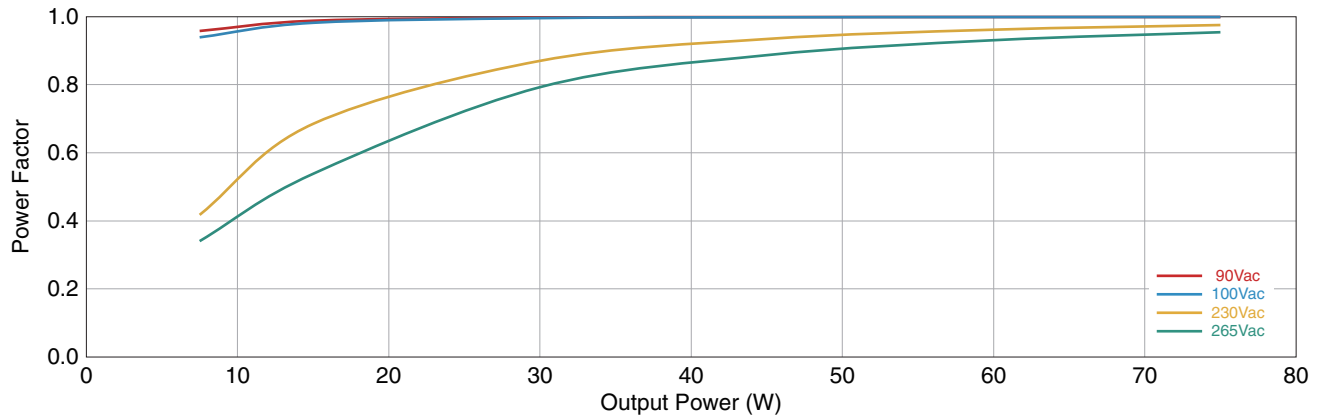


PFC QM系列 **PFC3318QM-601K03B-00**

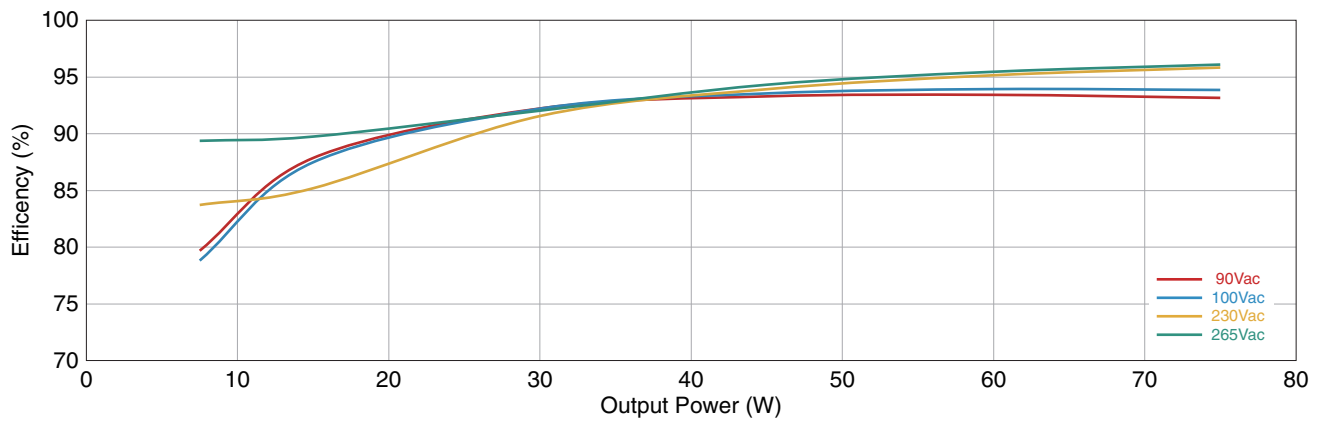
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



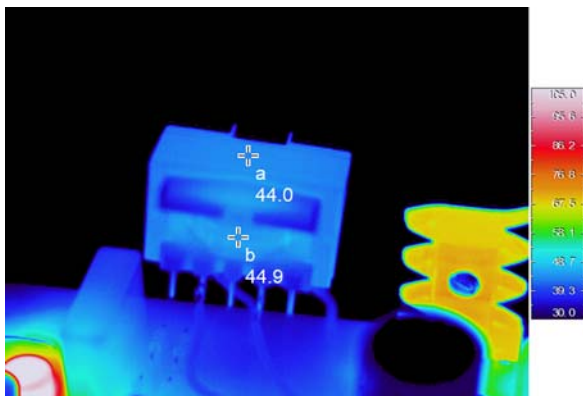
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 396Vdc, Pout = 75W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

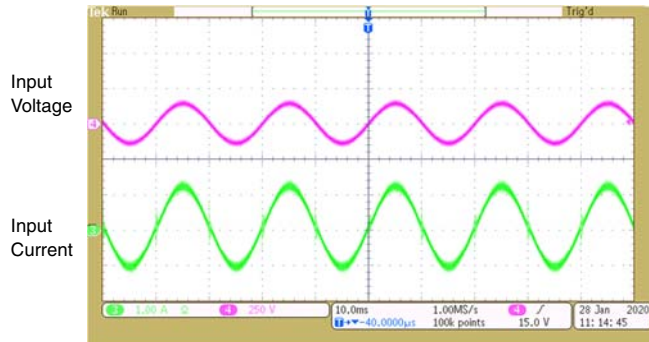
PFC QM系列 **PFC3318QM-601K03B-00**

■ 参考工作波形

□ Input Voltage / Current

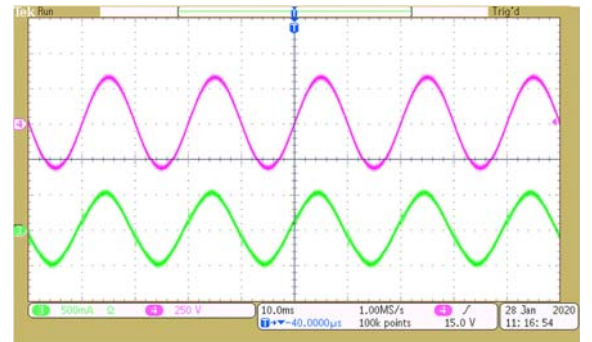
Vin=100Vac, Po=75W

1A/div 250V/div 10ms/div



Vin=230Vac, Po=75W

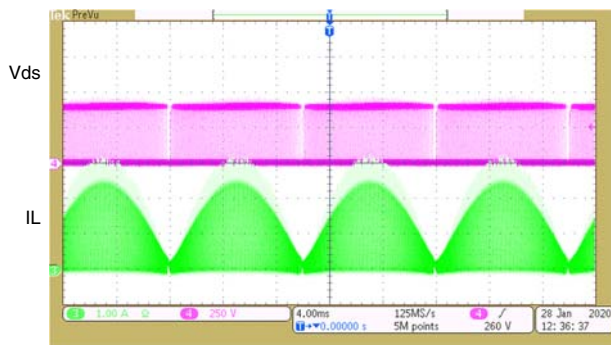
0.5A/div 250V/div 10ms/div



□ Vds / IL

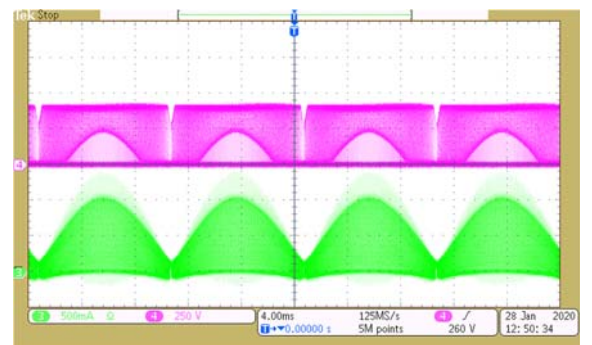
Vin=100Vac, Po=75W

1A/div 250V/div 4ms/div



Vin=230Vac, Po=75W

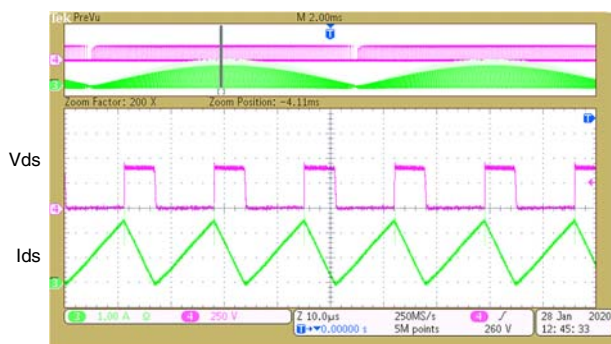
0.5A/div 250V/div 4ms/div



□ Vds / Ids

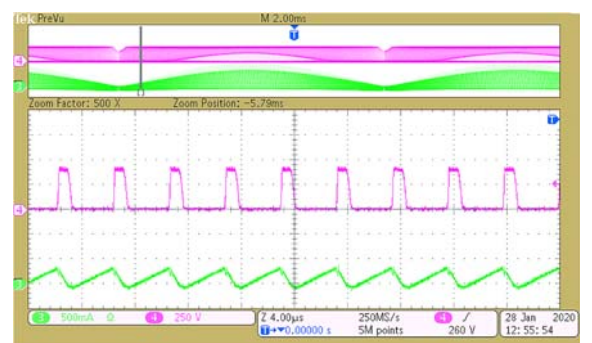
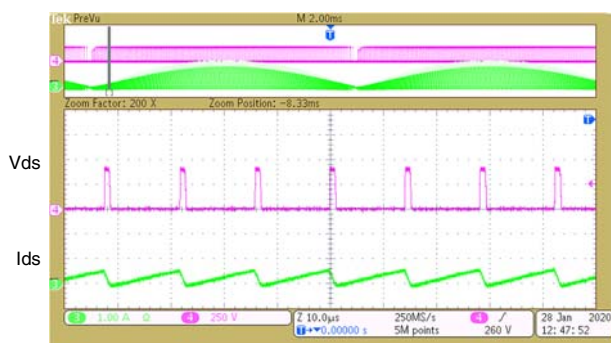
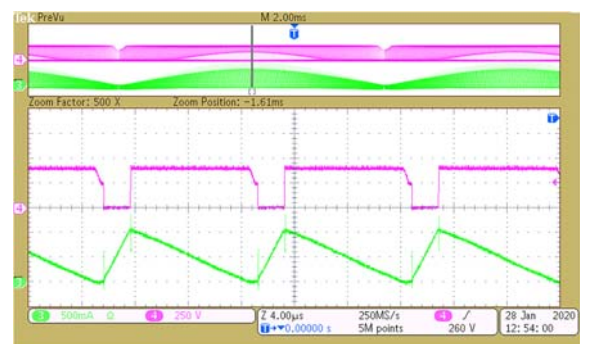
Vin=100Vac, Po=75W

1A/div 250V/div 10μs/div



Vin=230Vac, Po=75W

0.5A/div 250V/div 4μs/div



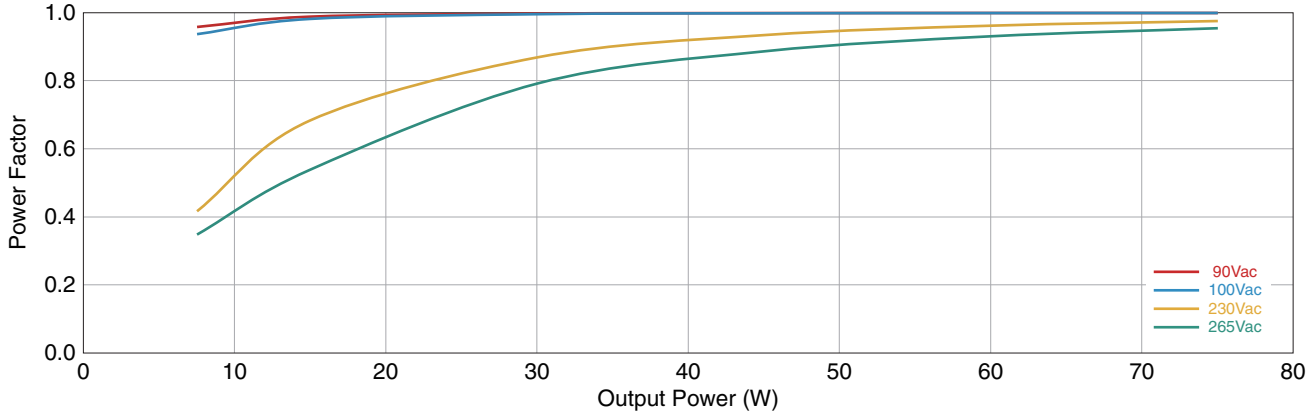
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PFC QM系列 **PFC3318QM-601K03E-00**

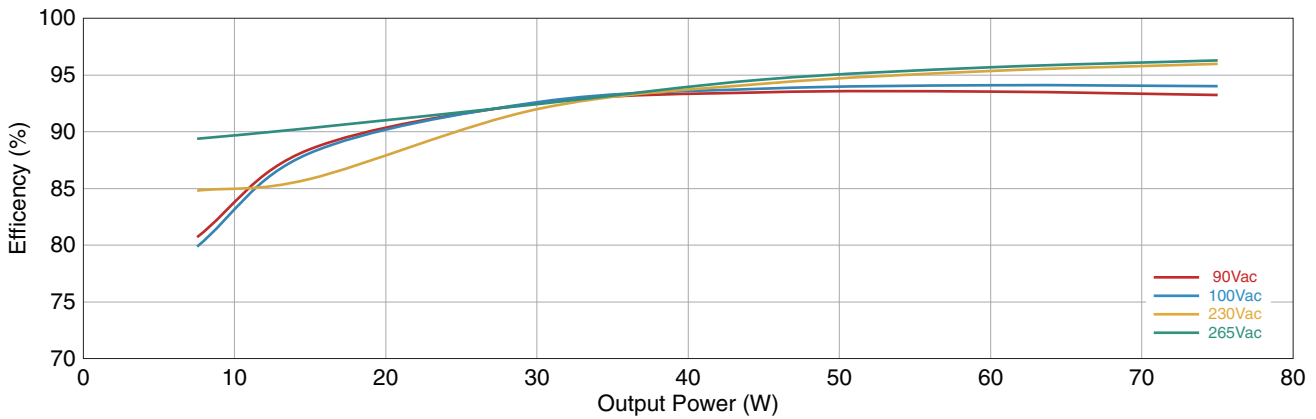
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



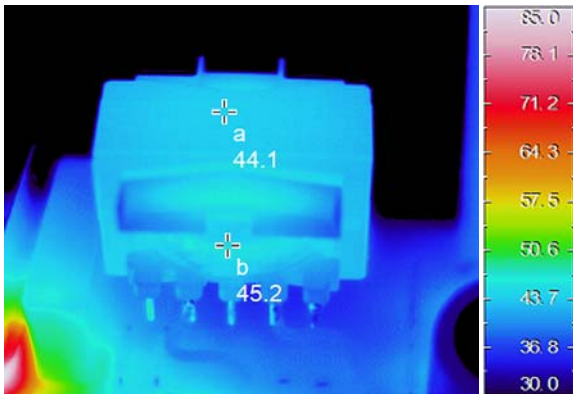
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 396Vdc, Pout = 75W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

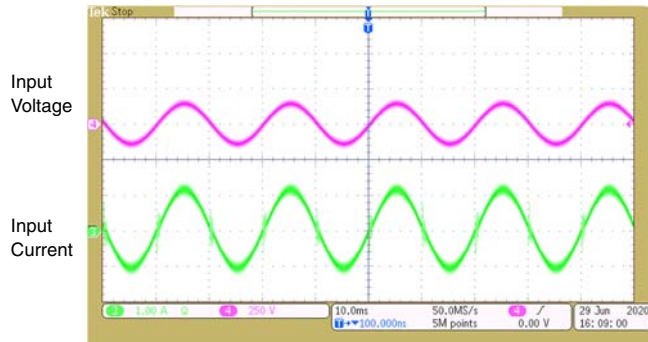
PFC QM系列 **PFC3318QM-601K03E-00**

■ 参考工作波形

□ Input Voltage / Current

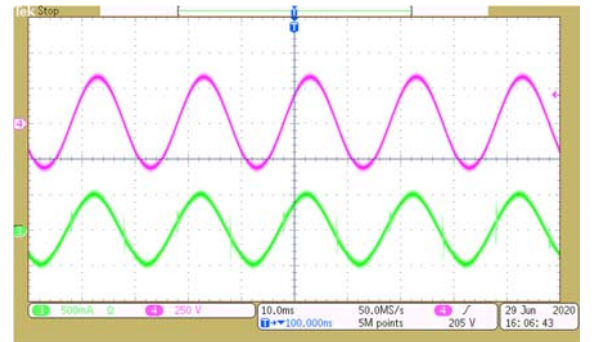
Vin=100Vac, Po=75W

1A/div 250V/div 10ms/div



Vin=230Vac, Po=75W

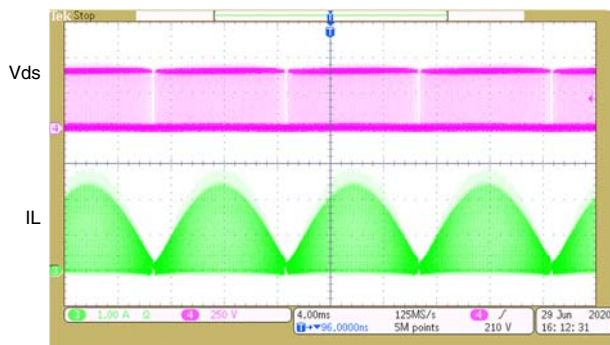
0.5A/div 250V/div 10ms/div



□ Vds / IL

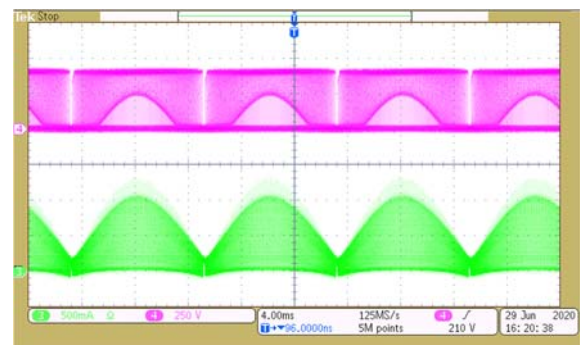
Vin=100Vac, Po=75W

1A/div 250V/div 4ms/div



Vin=230Vac, Po=75W

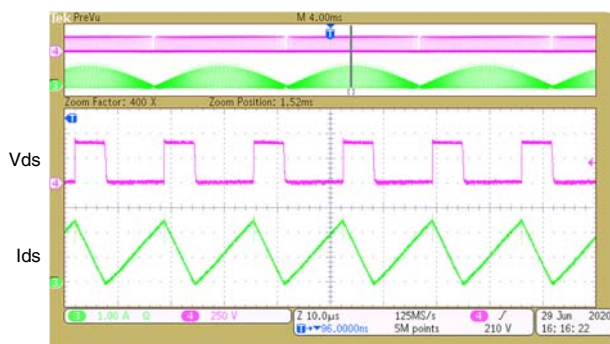
0.5A/div 250V/div 4ms/div



□ Vds / Ids

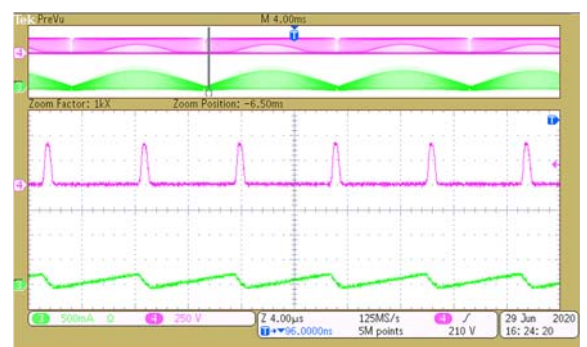
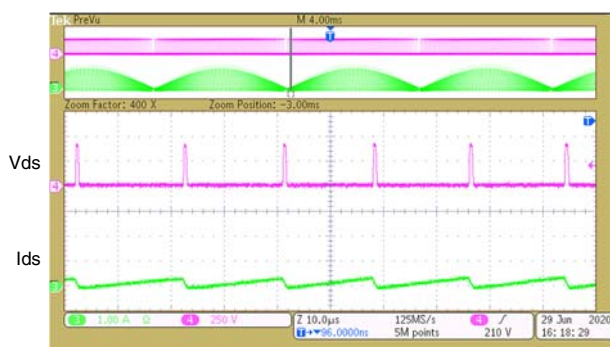
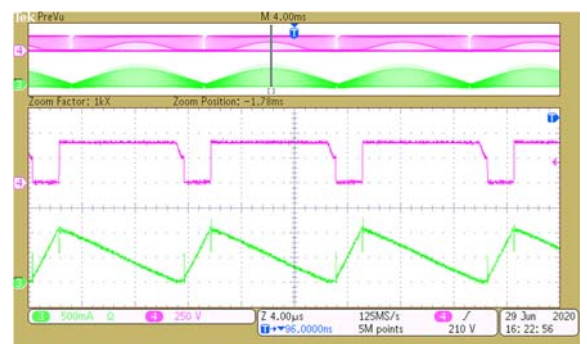
Vin=100Vac, Po=75W

1A/div 250V/div 10μs/div



Vin=230Vac, Po=75W

0.5A/div 250V/div 4μs/div



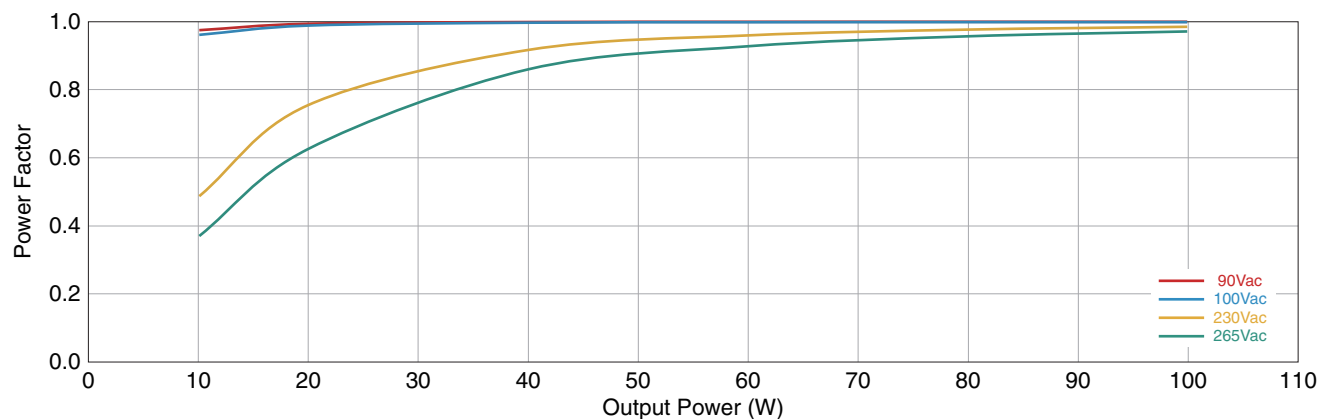
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PFC QM系列 **PFC3318QM-451K04B-00**

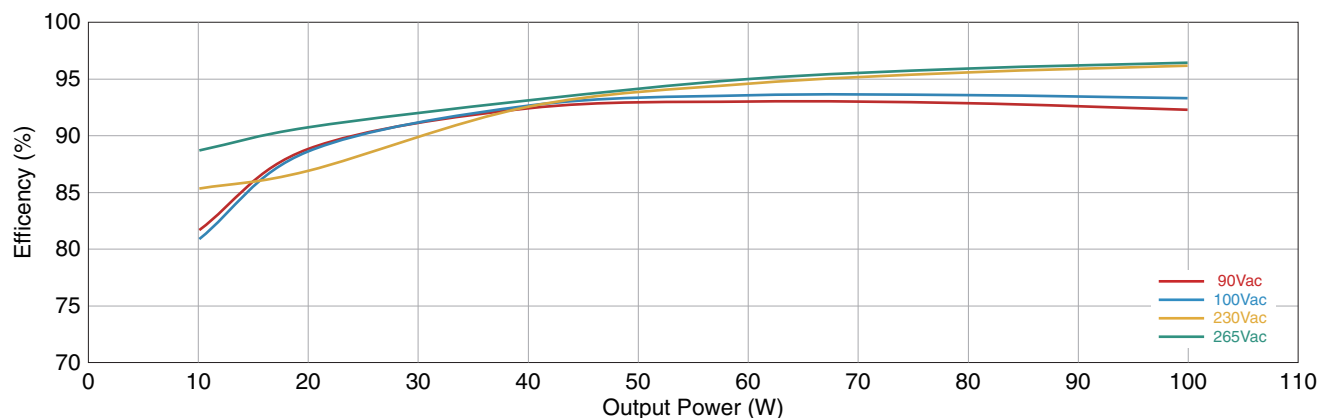
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



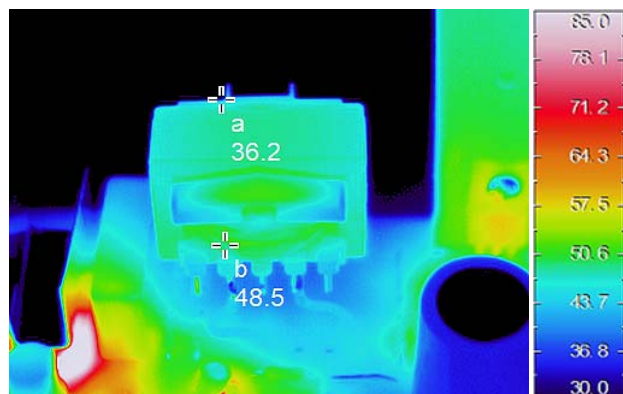
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 396Vdc, Pout = 100W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

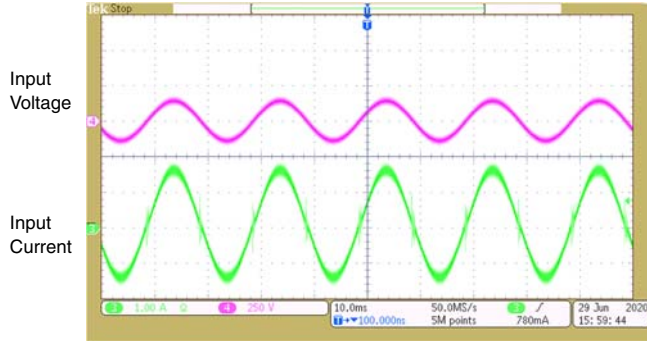
PFC QM系列 **PFC3318QM-451K04B-00**

■ 参考工作波形

□ Input Voltage / Current

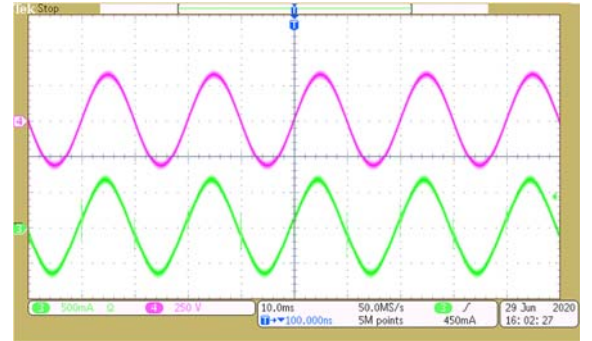
Vin=100Vac, Po=100W

1A/div 250V/div 10ms/div



Vin=230Vac, Po=100W

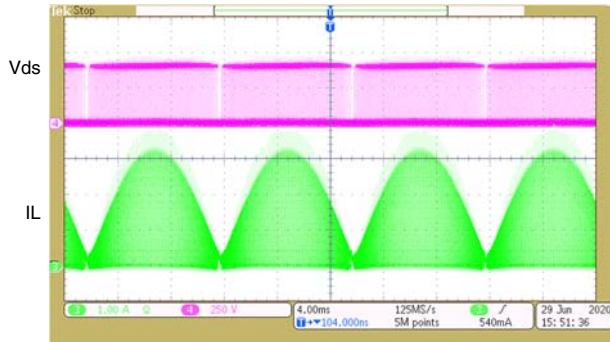
0.5A/div 250V/div 10ms/div



□ Vds / IL

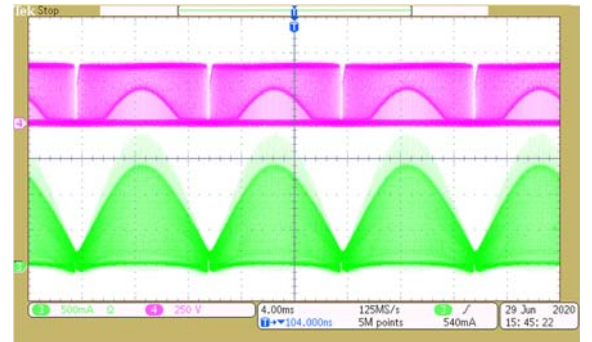
Vin=100Vac, Po=100W

1A/div 250V/div 4ms/div



Vin=230Vac, Po=100W

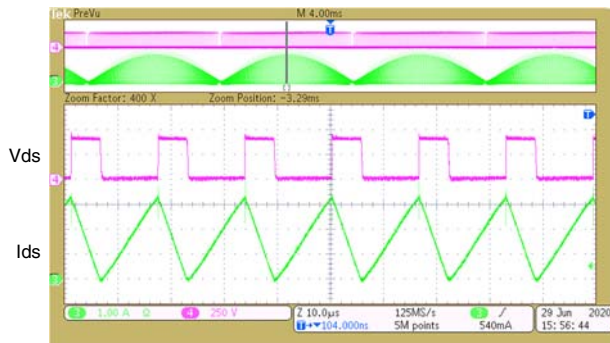
0.5A/div 250V/div 4ms/div



□ Vds / Ids

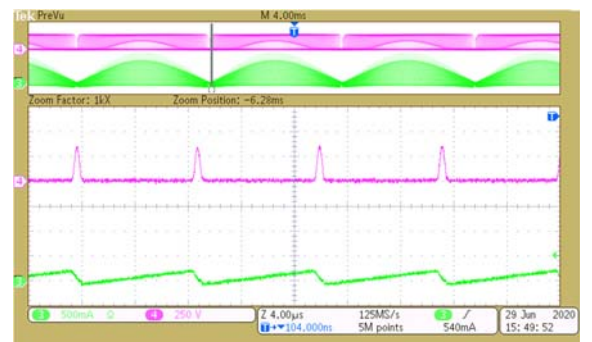
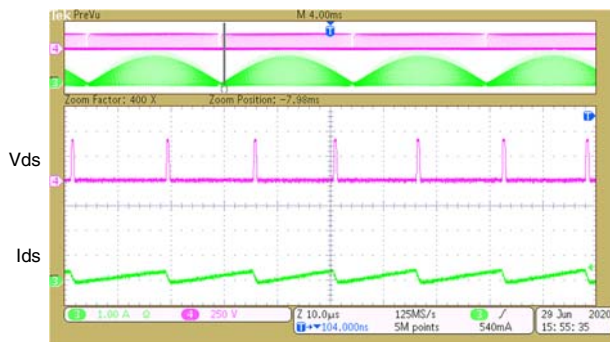
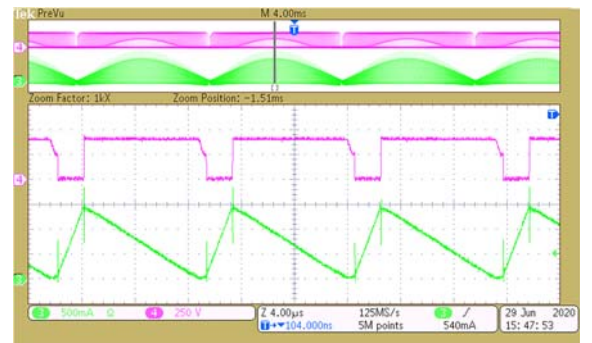
Vin=100Vac, Po=100W

1A/div 250V/div 10μs/div



Vin=230Vac, Po=100W

0.5A/div 250V/div 4μs/div

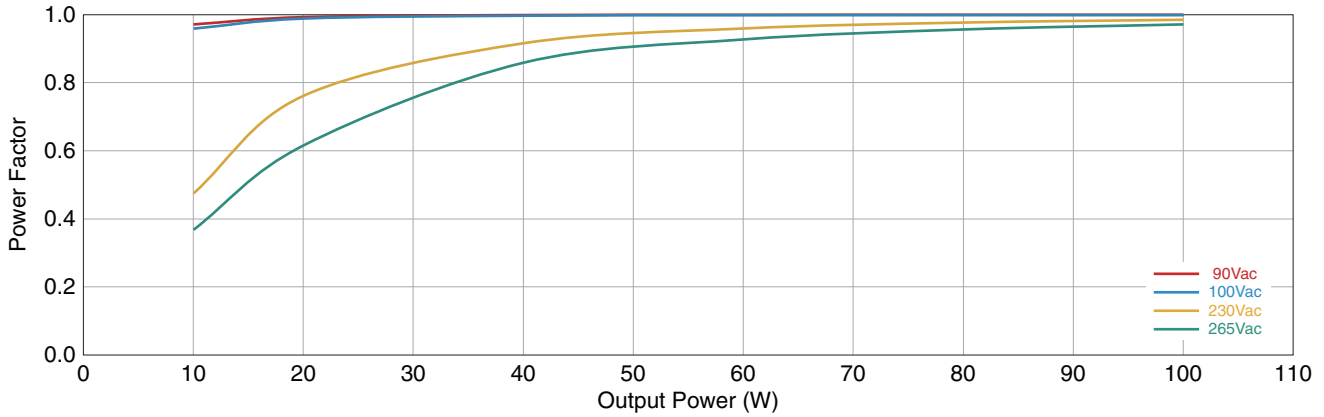


PFC QM系列 **PFC3519QM-451K04E-00**

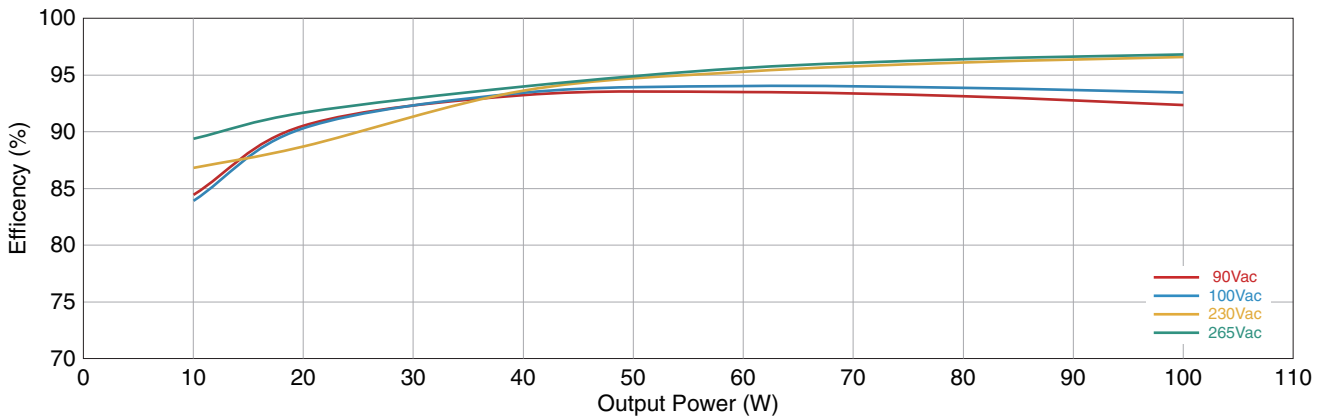
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



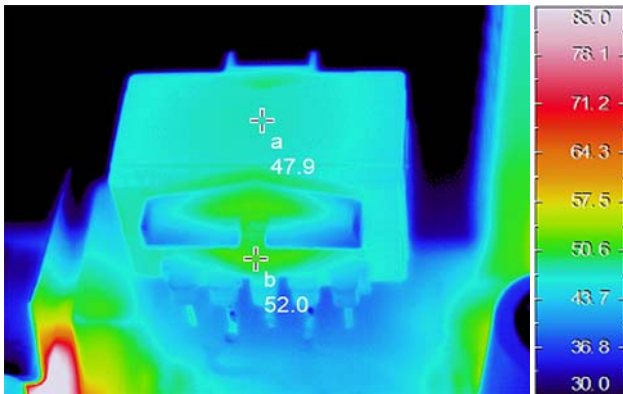
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 396Vdc, Pout = 100W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

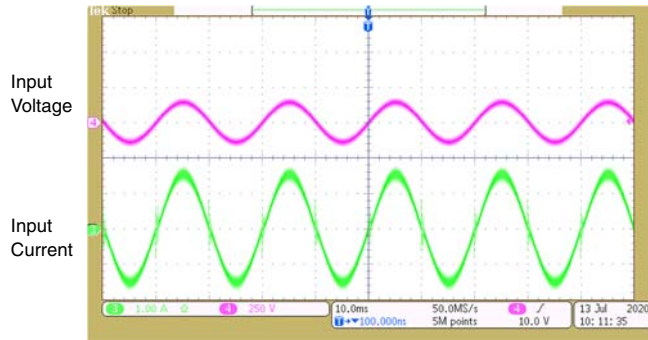
PFC QM系列 **PFC3519QM-451K04E-00**

■ 参考工作波形

□ Input Voltage / Current

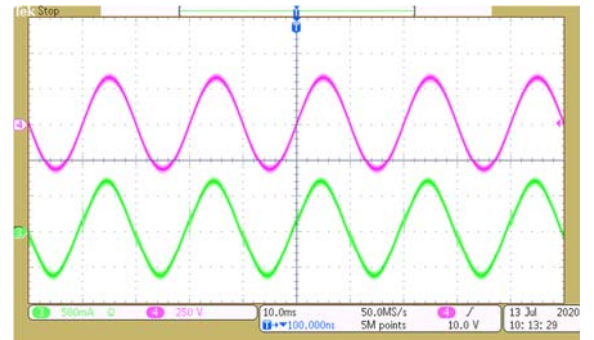
Vin=100Vac, Po=100W

1A/div 250V/div 10ms/div



Vin=230Vac, Po=100W

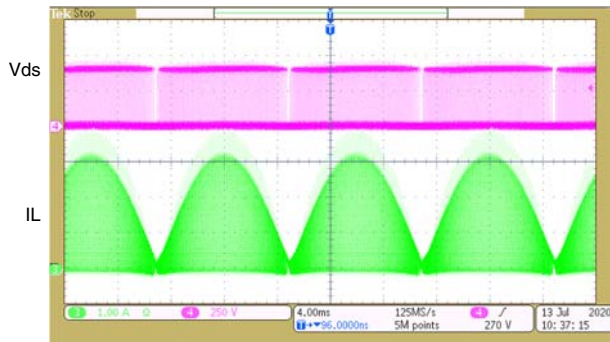
0.5A/div 250V/div 10ms/div



□ Vds / IL

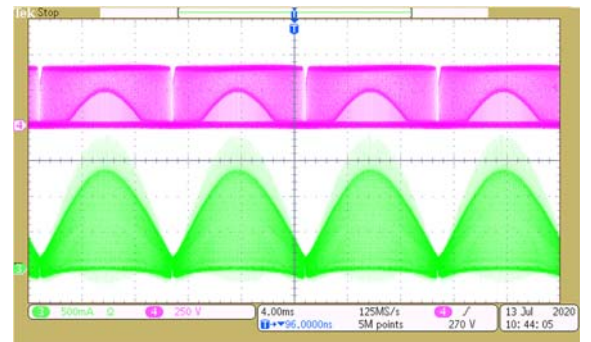
Vin=100Vac, Po=100W

1A/div 250V/div 4ms/div



Vin=230Vac, Po=100W

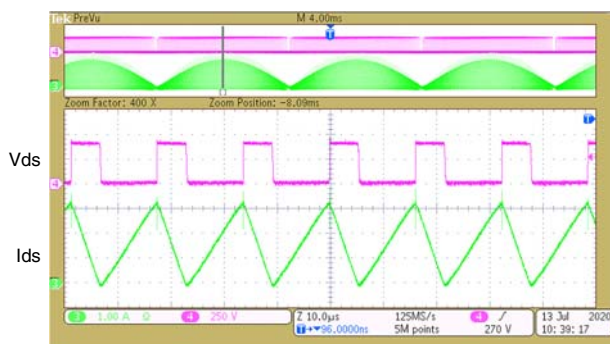
0.5A/div 250V/div 4ms/div



□ Vds / Ids

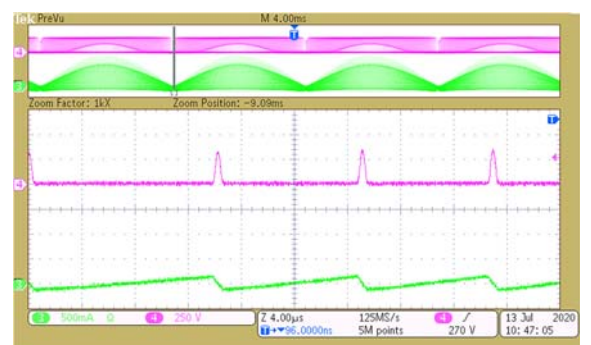
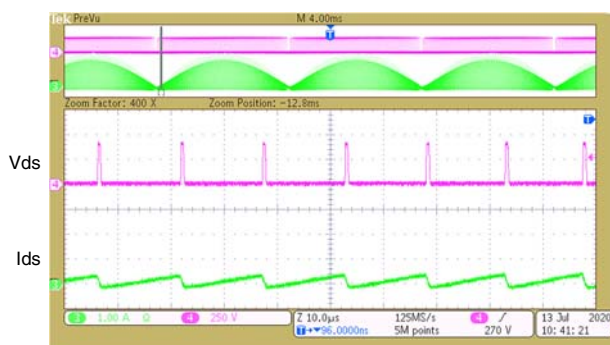
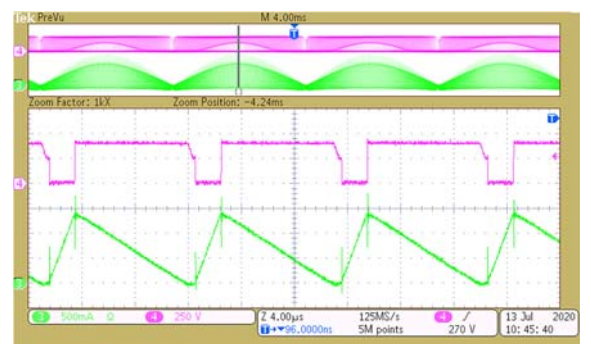
Vin=100Vac, Po=100W

1A/div 250V/div 10μs/div



Vin=230Vac, Po=100W

0.5A/div 250V/div 4μs/div

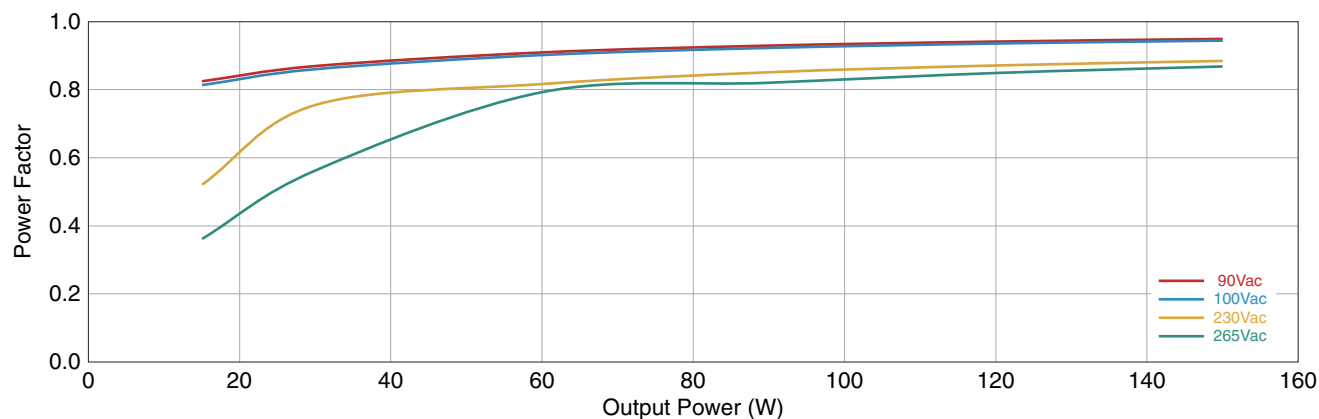


PFC QM系列 **PFC3519QM-301K06B-50**

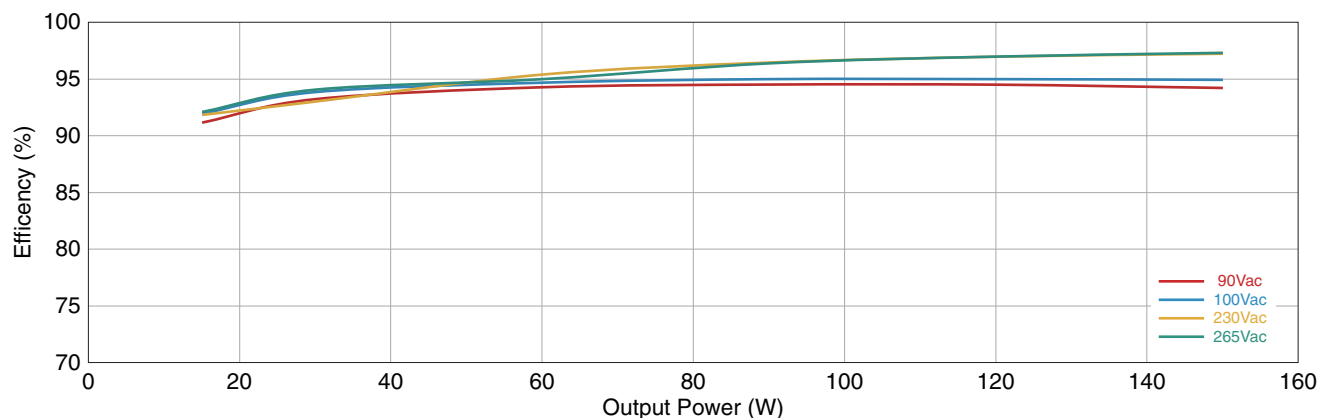
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



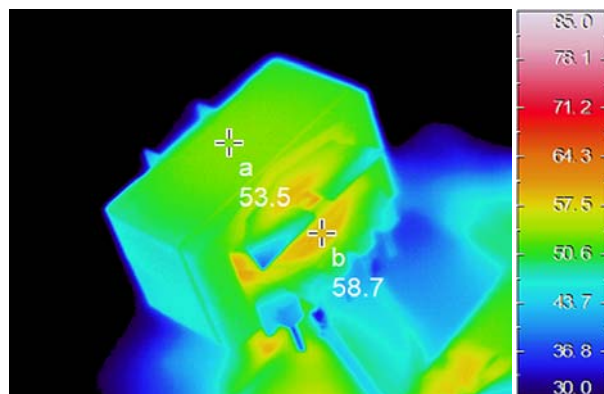
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 392Vdc, Pout = 150W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

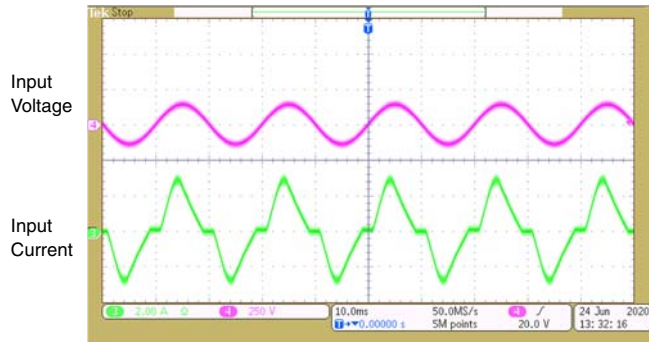
PFC QM系列 **PFC3519QM-301K06B-50**

■ 参考工作波形

□ Input Voltage / Current

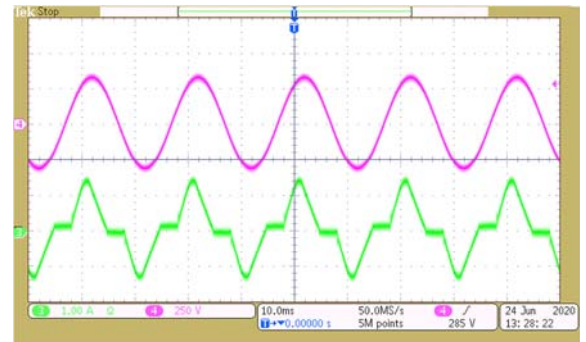
Vin=100Vac, Po=150W

2A/div 250V/div 10ms/div



Vin=230Vac, Po=150W

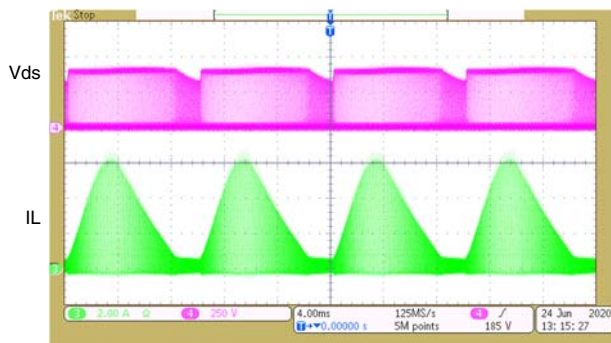
1A/div 250V/div 10ms/div



□ Vds / IL

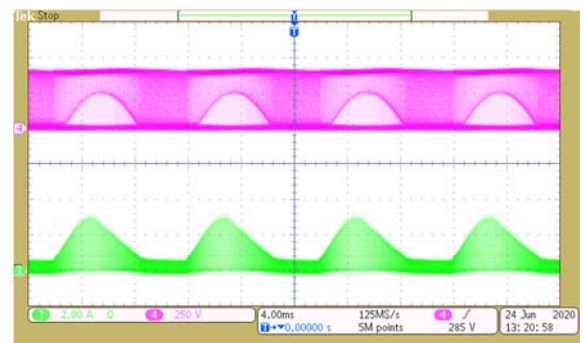
Vin=100Vac, Po=150W

2A/div 250V/div 4ms/div



Vin=230Vac, Po=150W

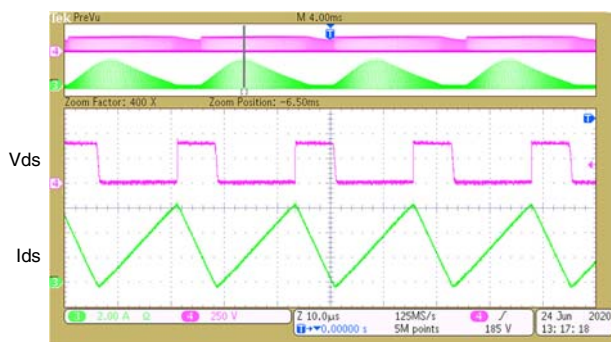
2A/div 250V/div 4ms/div



□ Vds / Ids

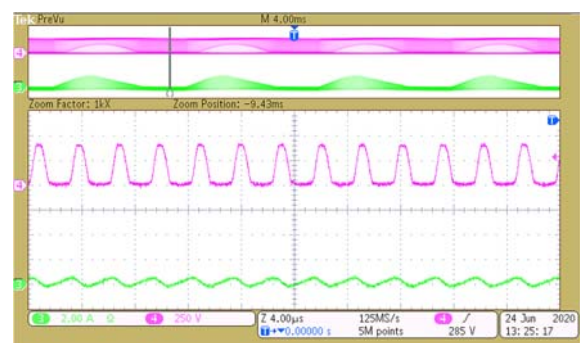
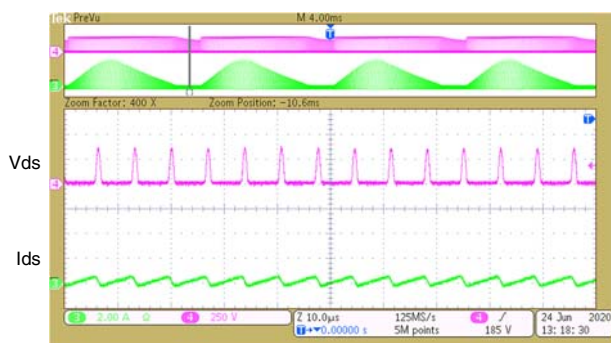
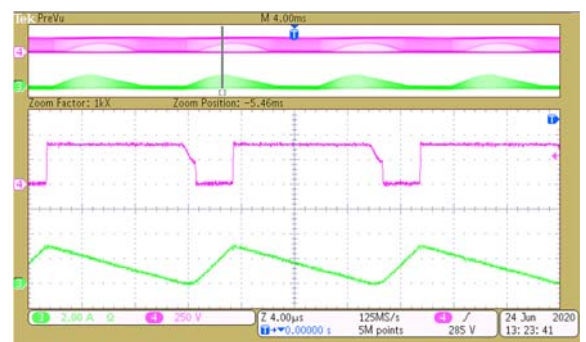
Vin=100Vac, Po=150W

2A/div 250V/div 10μs/div



Vin=230Vac, Po=150W

2A/div 250V/div 4μs/div

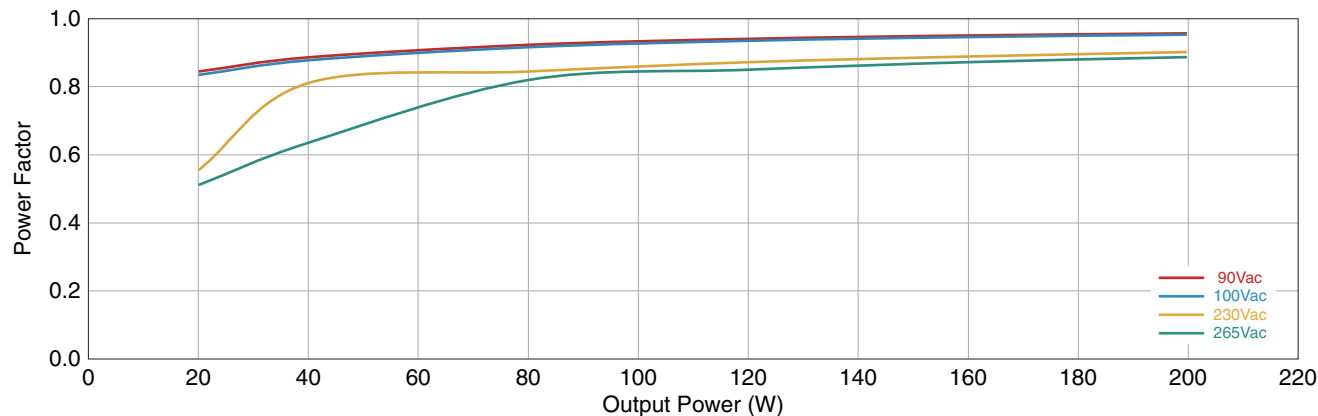


PFC QM系列 **PFC3519QM-231K07B-50**

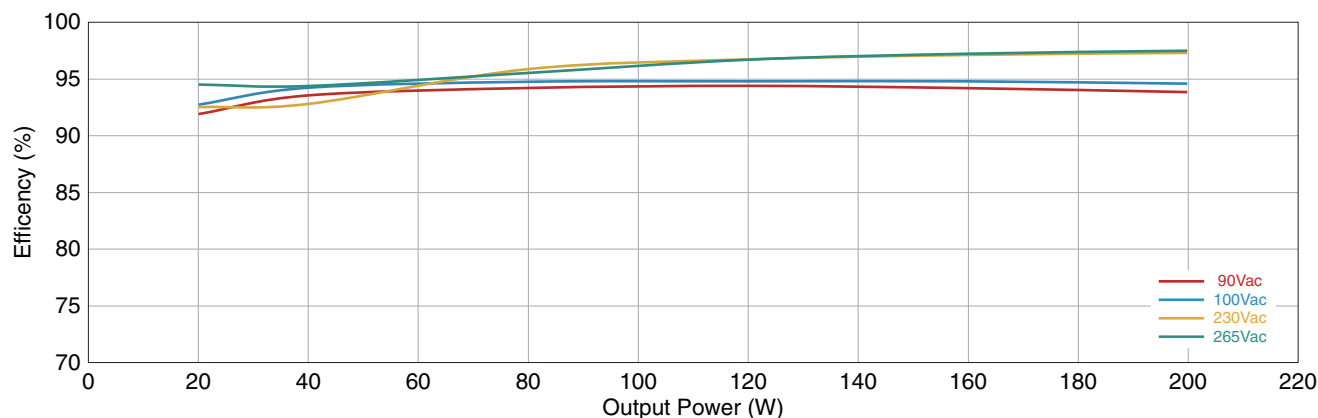
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



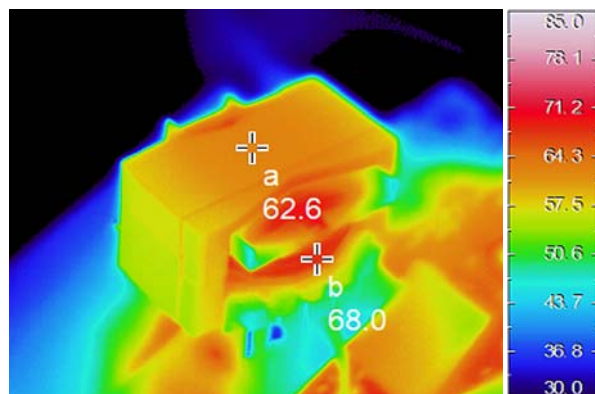
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 392Vdc, Pout = 200W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

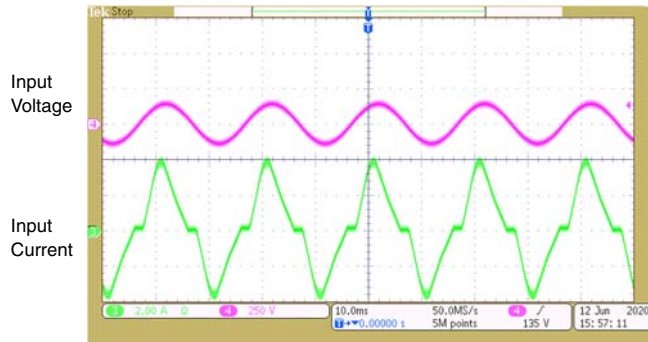
PFC QM系列 **PFC3519QM-231K07B-50**

■ 参考工作波形

□ Input Voltage / Current

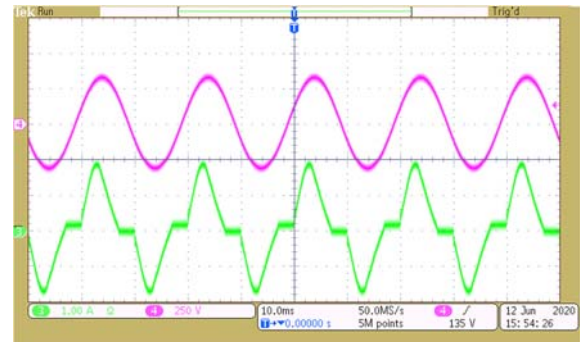
Vin=100Vac, Po=200W

2A/div 250V/div 10ms/div



Vin=230Vac, Po=200W

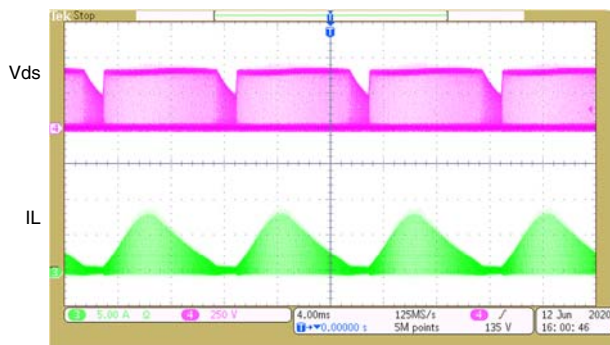
1A/div 250V/div 10ms/div



□ Vds / IL

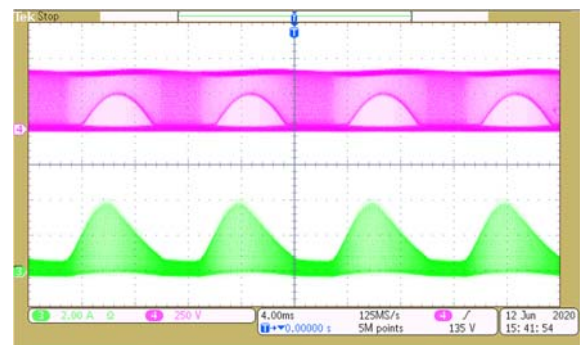
Vin=100Vac, Po=200W

5A/div 250V/div 4ms/div



Vin=230Vac, Po=200W

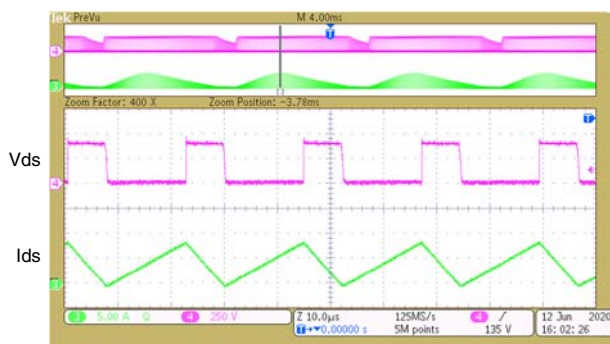
2A/div 250V/div 4ms/div



□ Vds / Ids

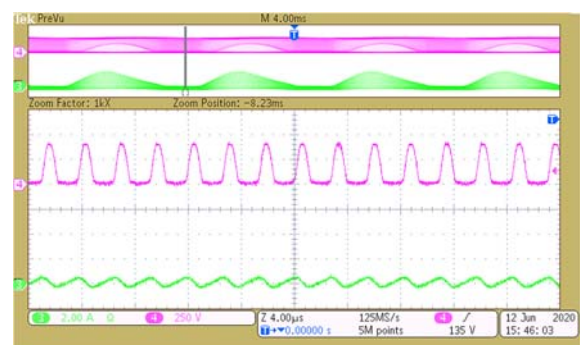
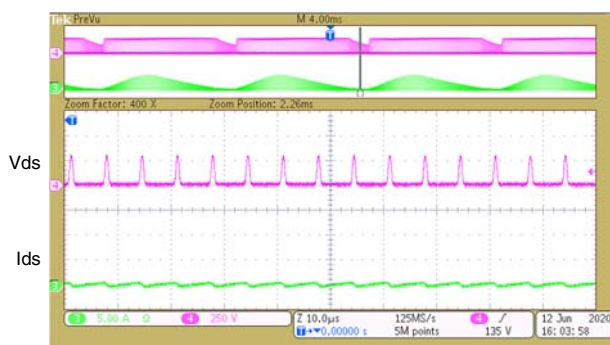
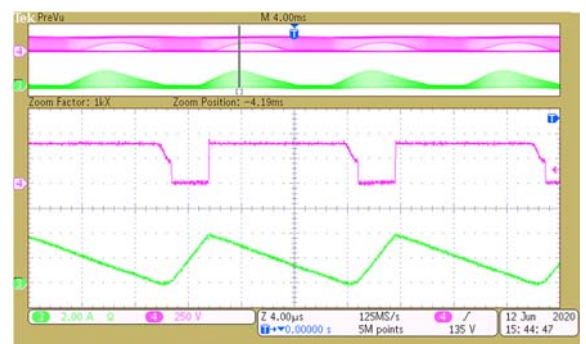
Vin=100Vac, Po=200W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=200W

2A/div 250V/div 4μs/div



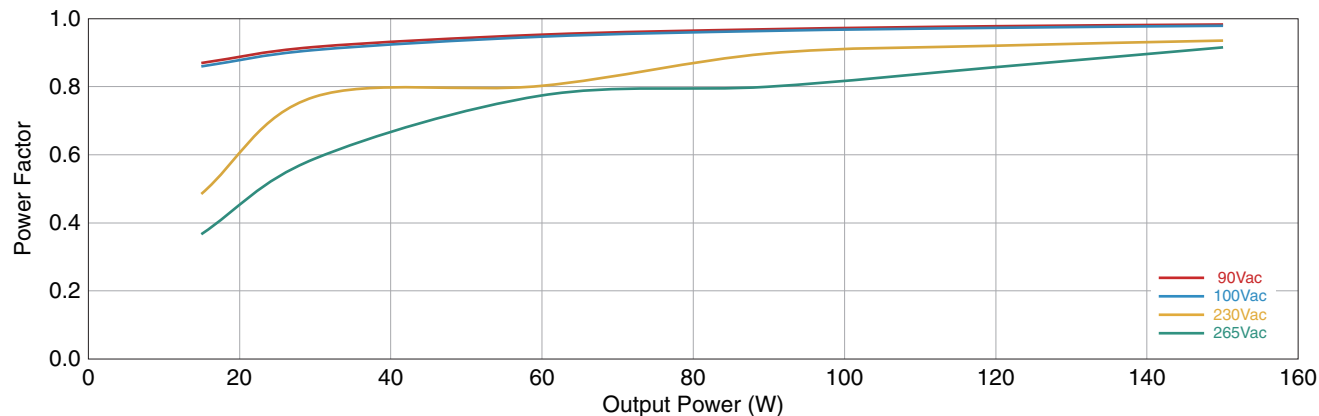
⚠ 为了能够更加正确、安全地使用产品，请务必索取能进一步确认详细特性、规格的采购规格书。
 记载内容可能因为产品改良等原因不经预告而更改，恕不另行通知。

PFC QM系列 PFC3819QM-301K06E-50

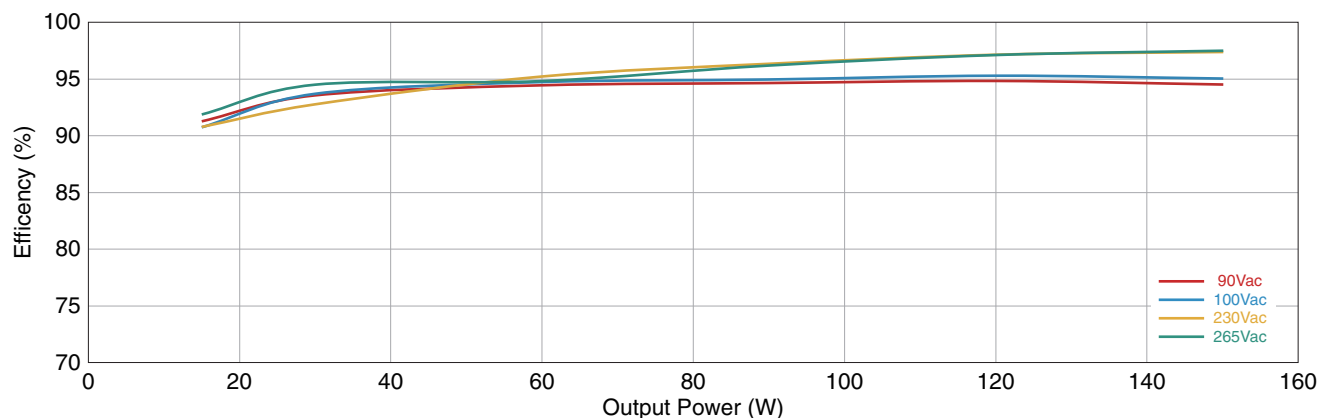
■ 参考动态特性

Vout = 394Vdc

□ Power Factor



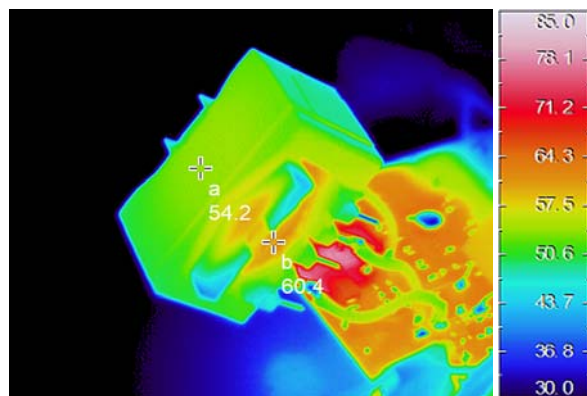
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 394Vdc, Pout = 150W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

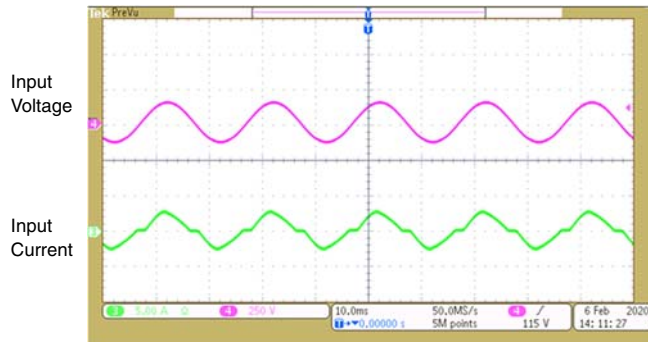
PFC QM系列 **PFC3819QM-301K06E-50**

■ 参考工作波形

□ Input Voltage / Current

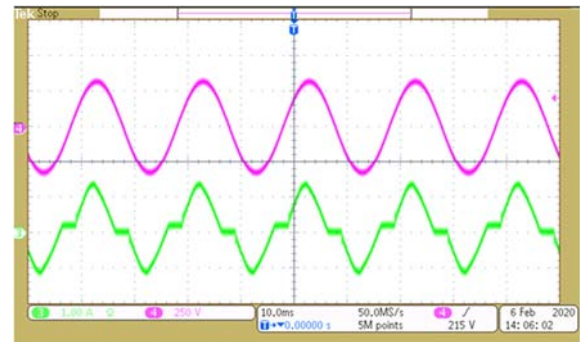
Vin=100Vac, Po=150W

5A/div 250V/div 10ms/div



Vin=230Vac, Po=150W

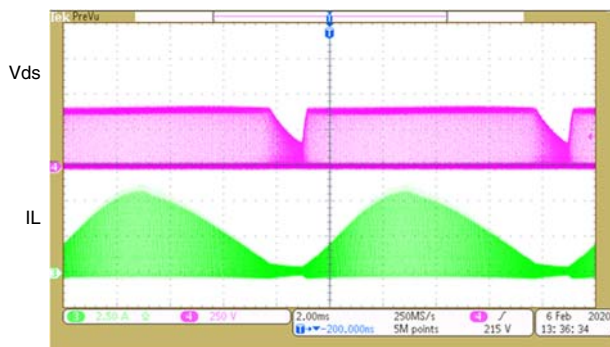
1A/div 250V/div 10ms/div



□ Vds / IL

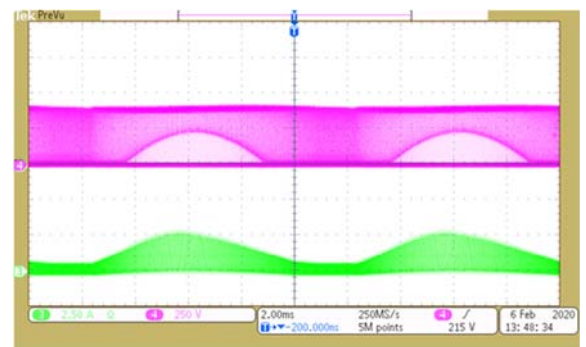
Vin=100Vac, Po=150W

2.5A/div 250V/div 2ms/div



Vin=230Vac, Po=150W

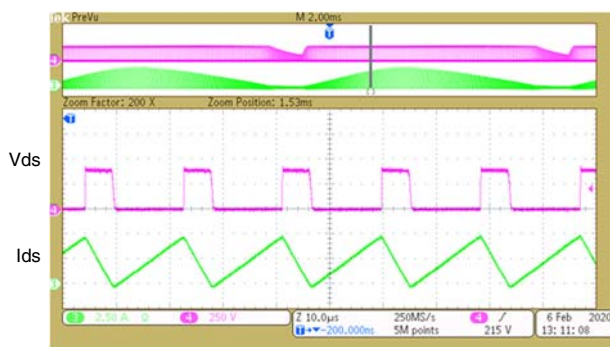
2.5A/div 250V/div 2ms/div



□ Vds / Ids

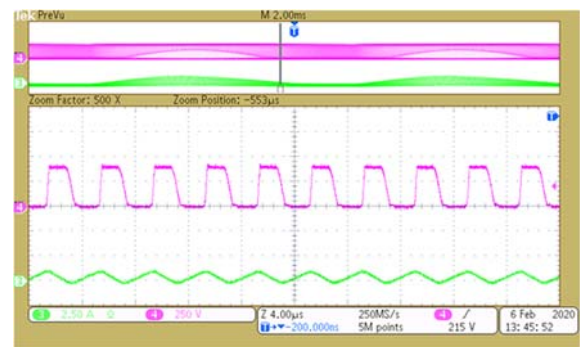
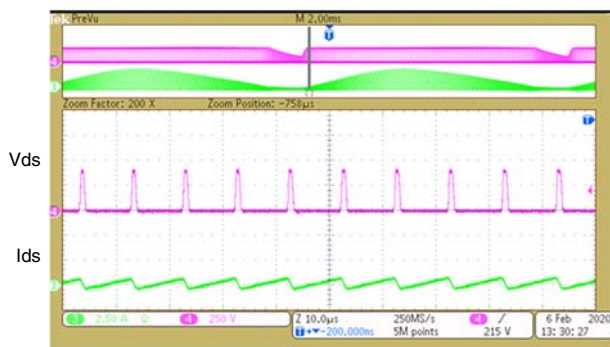
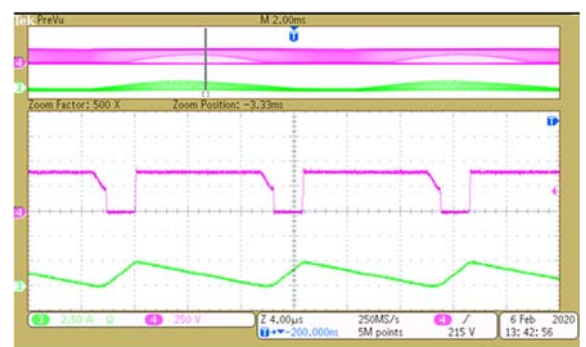
Vin=100Vac, Po=150W

2.5A/div 250V/div 10μs/div



Vin=230Vac, Po=150W

2.5A/div 250V/div 4μs/div



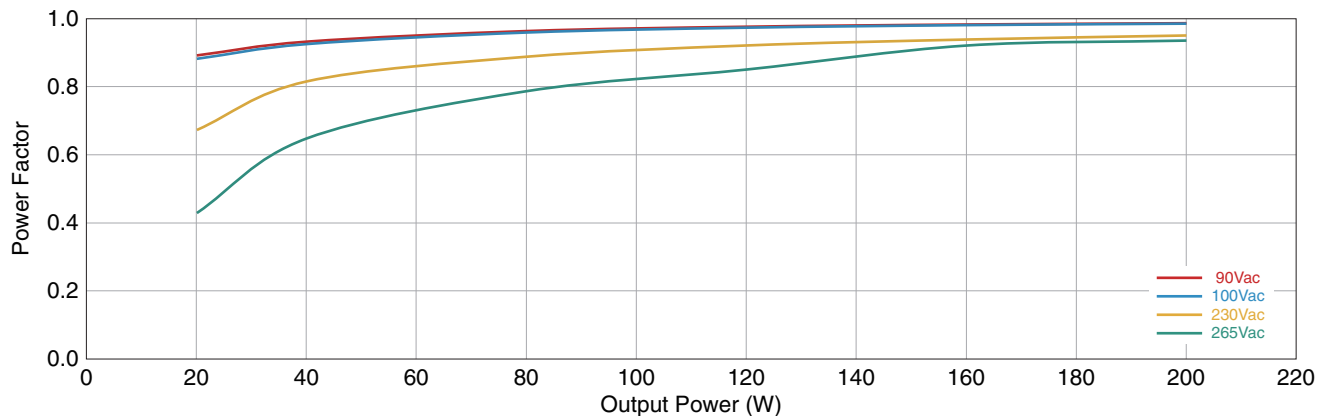
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PFC QM系列 **PFC3819QM-231K07D-50**

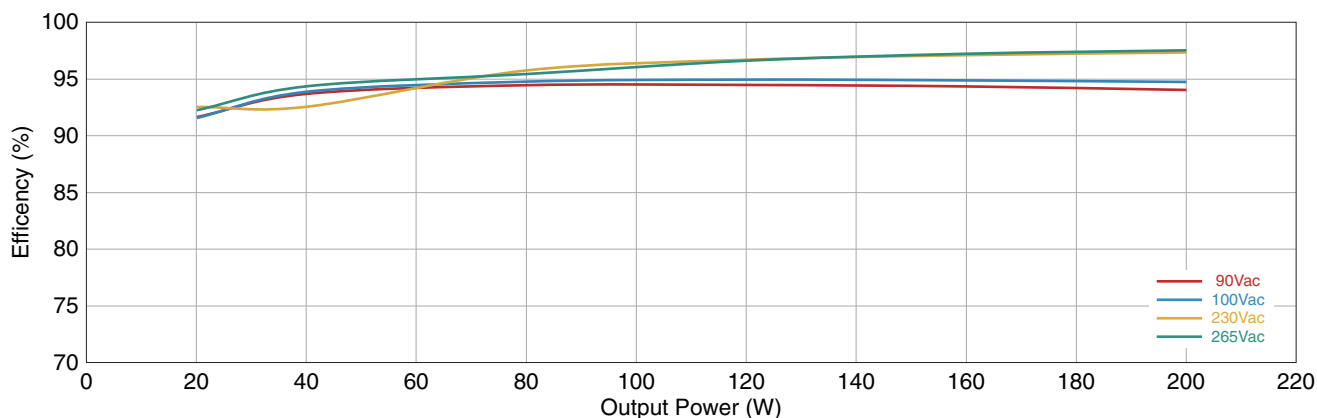
■ 参考动态特性

Vout = 394Vdc

□ Power Factor



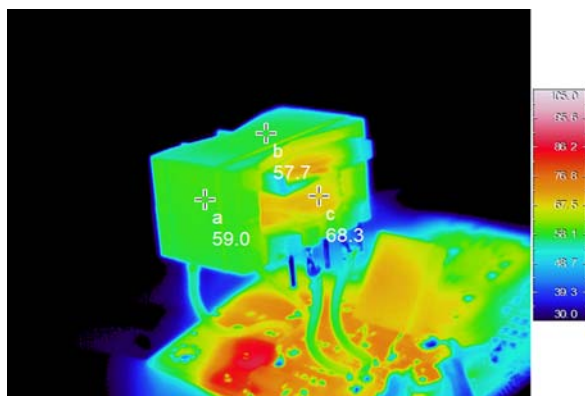
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 394Vdc, Pout = 200W, Room Temp.

a, b : Core Surface, c : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

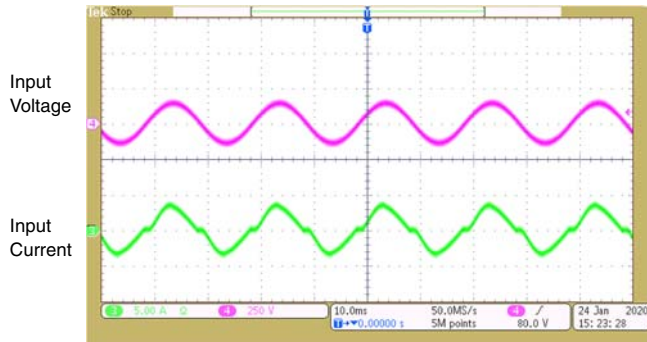
PFC QM系列 PFC3819QM-231K07D-50

■ 参考工作波形

□ Input Voltage / Current

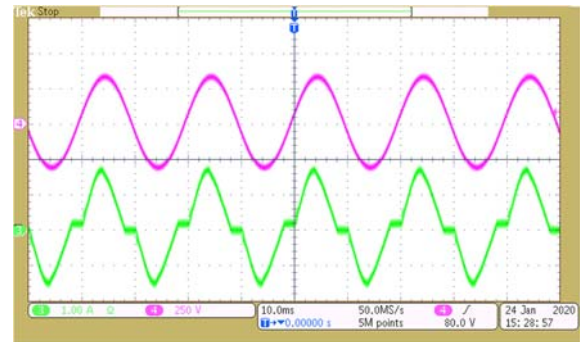
Vin=100Vac, Po=200W

5A/div 250V/div 10ms/div



Vin=230Vac, Po=200W

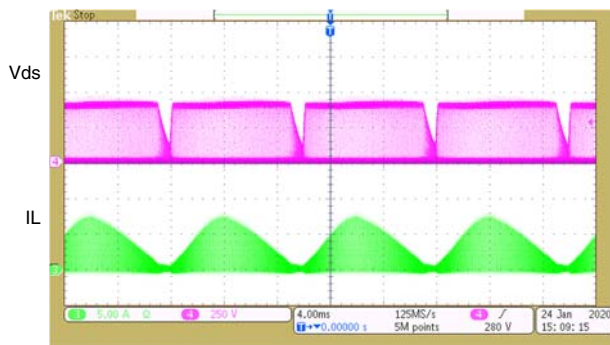
1A/div 250V/div 10ms/div



□ Vds / IL

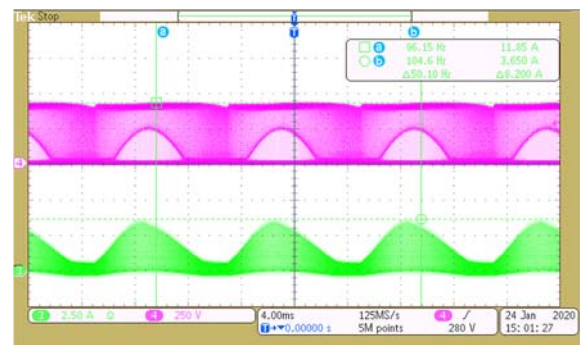
Vin=100Vac, Po=200W

5A/div 250V/div 4ms/div



Vin=230Vac, Po=200W

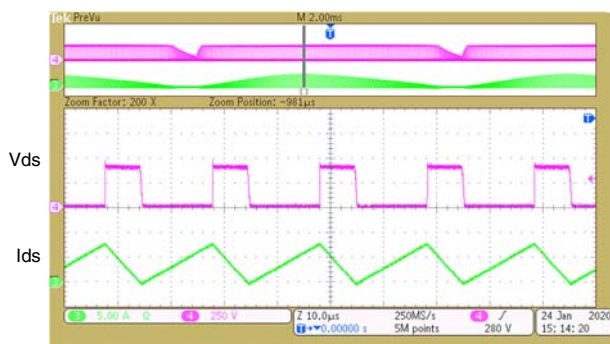
2.5A/div 250V/div 4ms/div



□ Vds / Ids

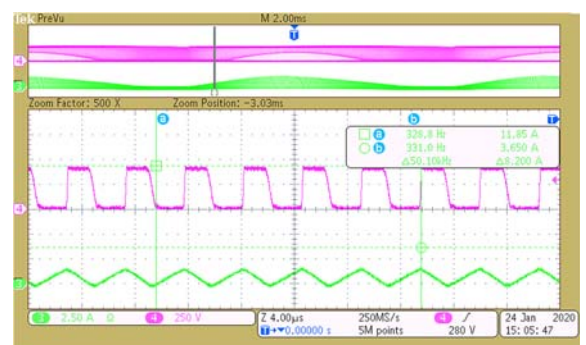
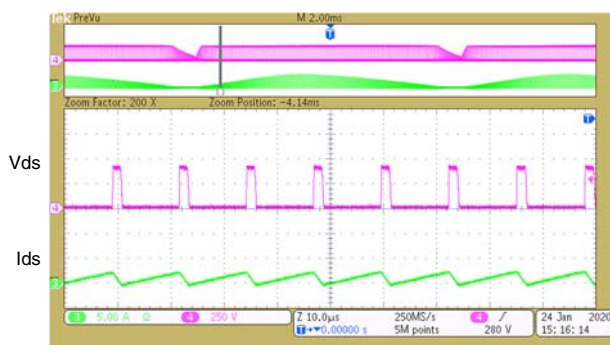
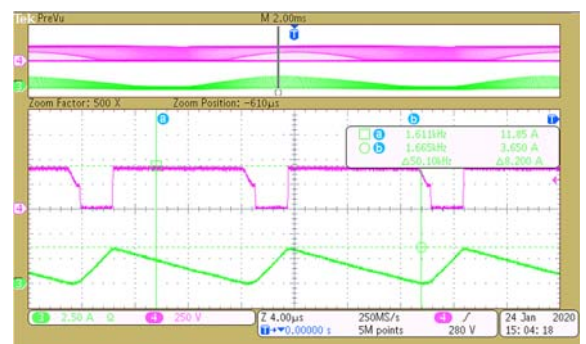
Vin=100Vac, Po=200W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=200W

2.5A/div 250V/div 4μs/div

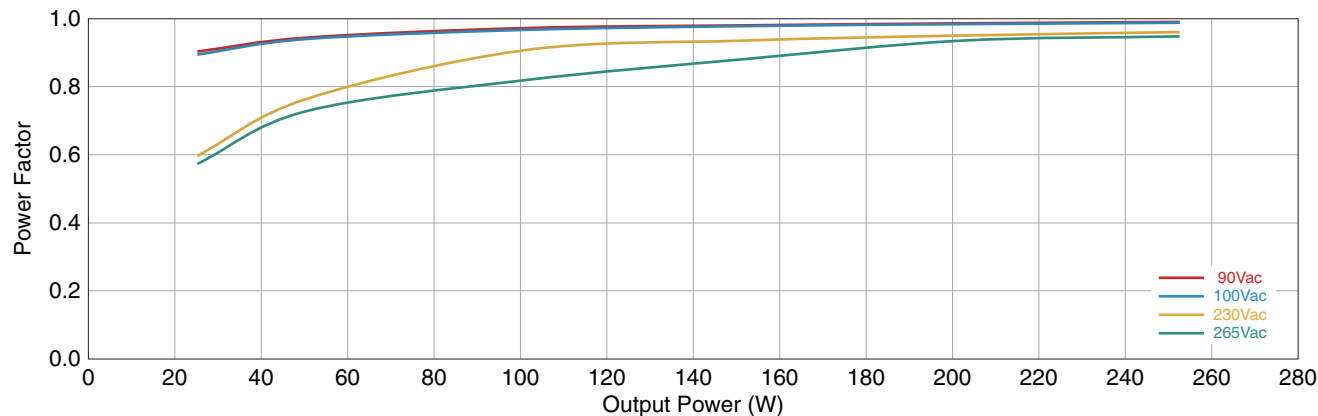


PFC QM系列 **PFC3819QM-181K09B-50**

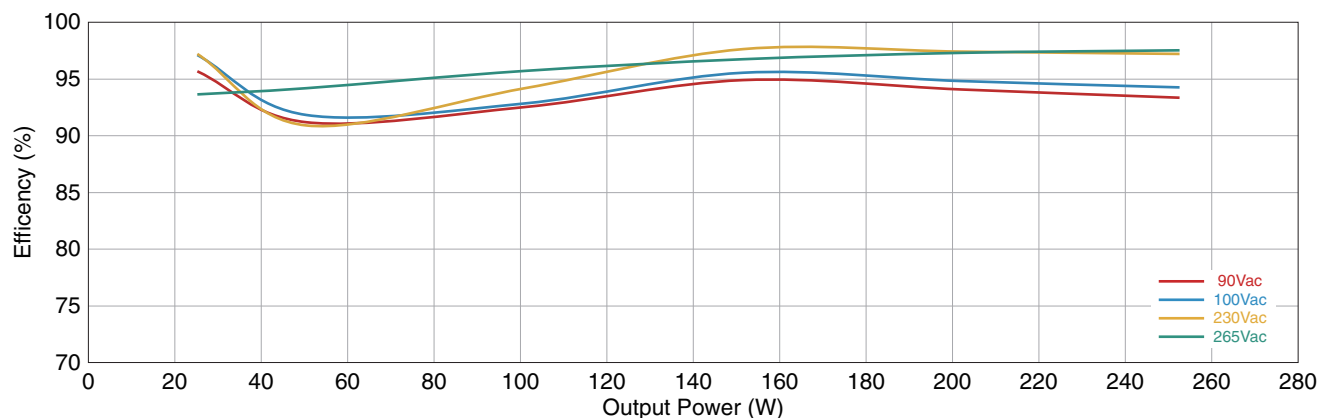
■ 参考动态特性

Vout = 395Vdc

□ Power Factor



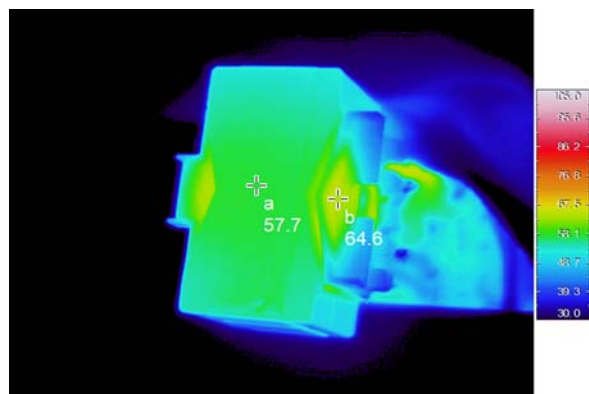
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 395Vdc, Pout = 250W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

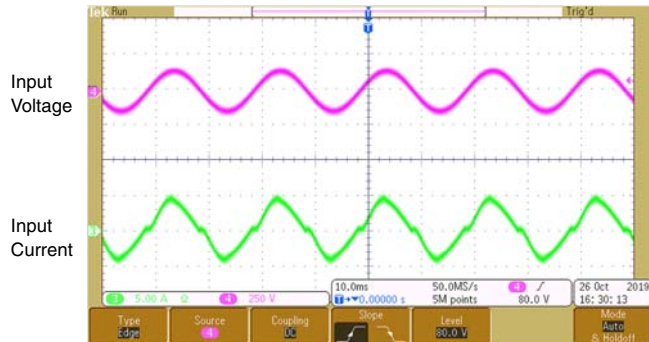
PFC QM系列 PFC3819QM-181K09B-50

■ 参考工作波形

□ Input Voltage / Current

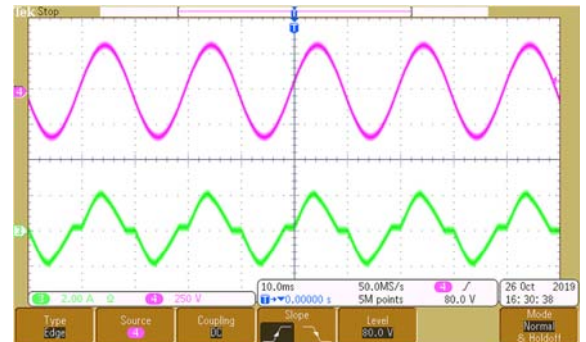
Vin=100Vac, Po=250W

5A/div 250V/div 10ms/div



Vin=230Vac, Po=250W

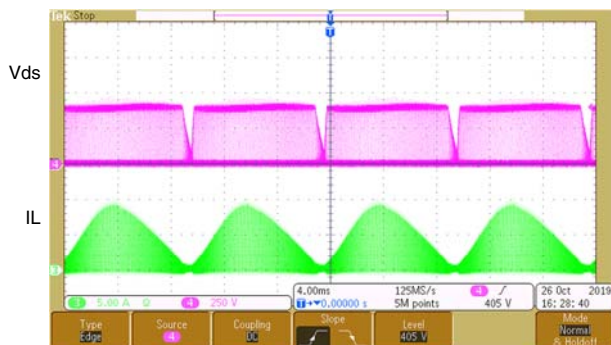
2A/div 250V/div 10ms/div



□ Vds / IL

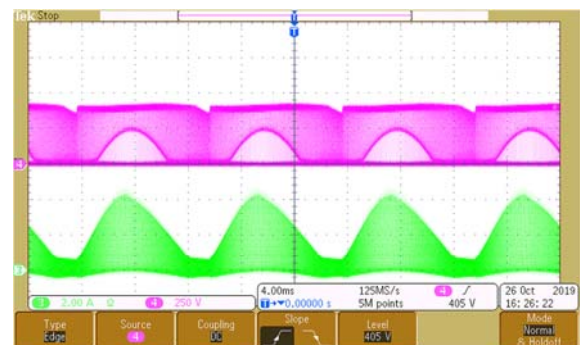
Vin=100Vac, Po=250W

5A/div 250V/div 4ms/div



Vin=230Vac, Po=250W

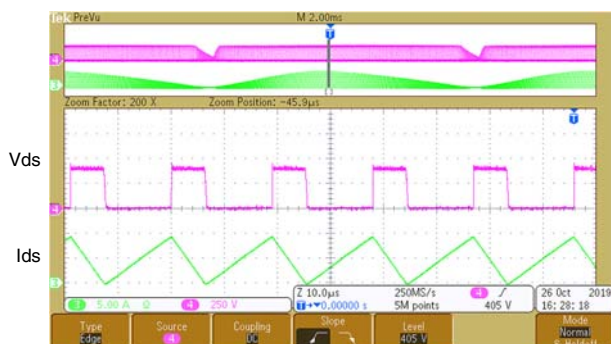
2A/div 250V/div 4ms/div



□ Vds / Ids

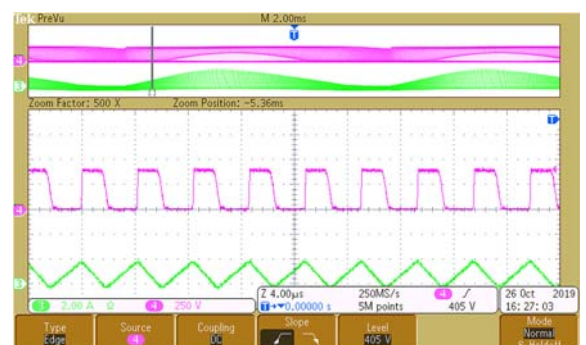
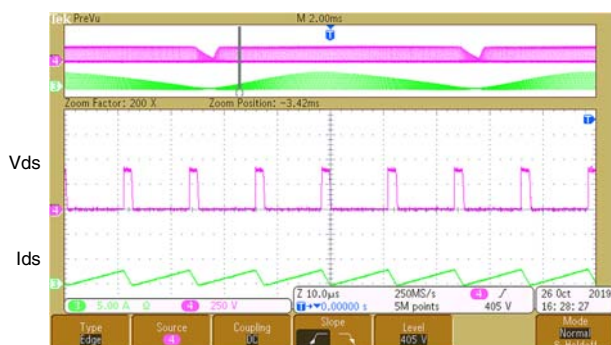
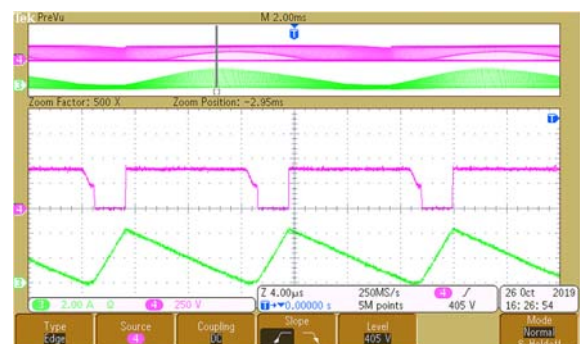
Vin=100Vac, Po=250W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=250W

2A/div 250V/div 4μs/div



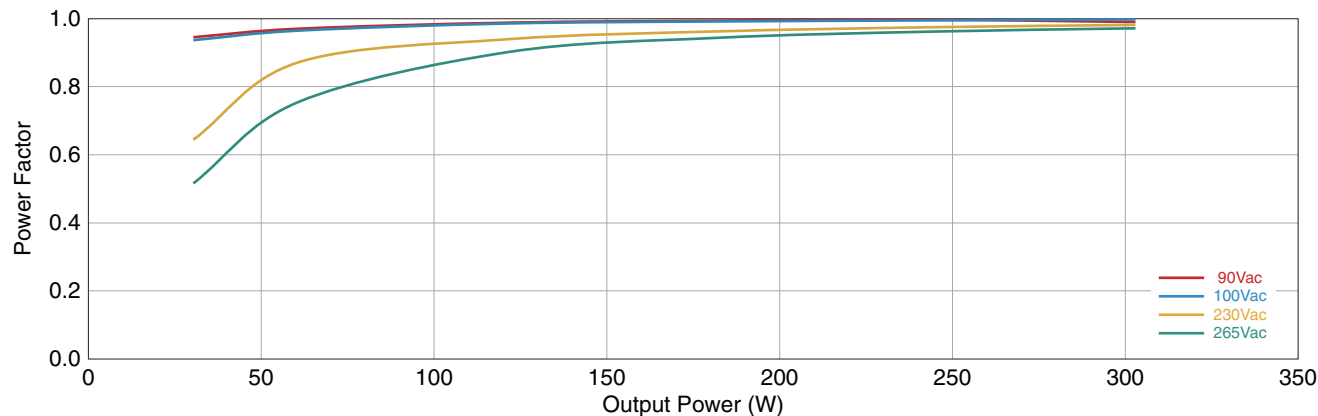
⚠ 为了能够更加正确、安全地使用产品，请务必索取能进一步确认详细特性、规格的采购规格书。
记载内容可能因为产品改良等原因不经预告而更改，恕不另行通知。

PFC QM系列 **PFC3819QM-151K11B-00**

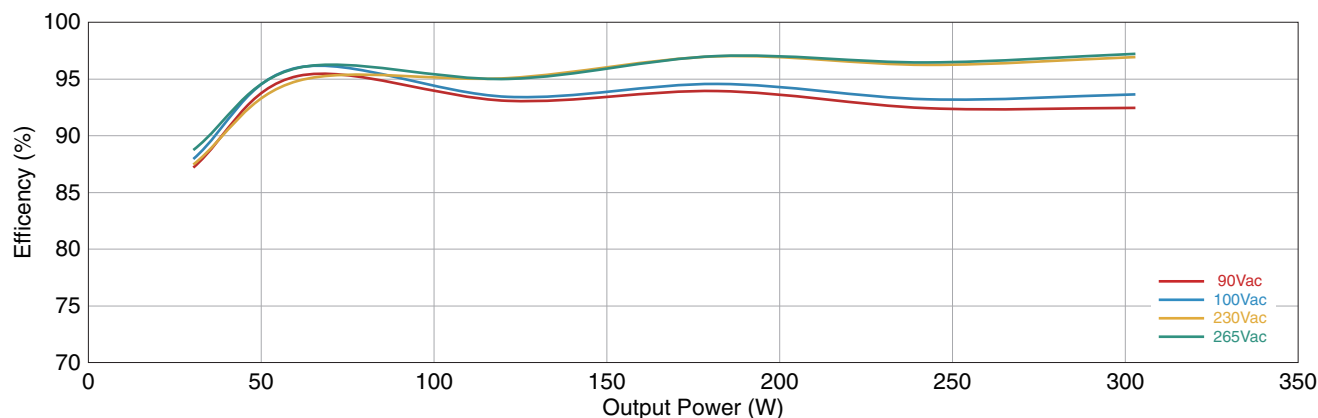
■ 参考动态特性

Vout = 394Vdc

□ Power Factor



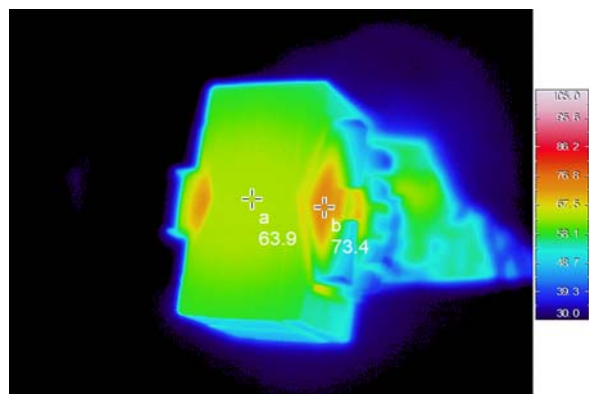
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 394Vdc, Pout = 300W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

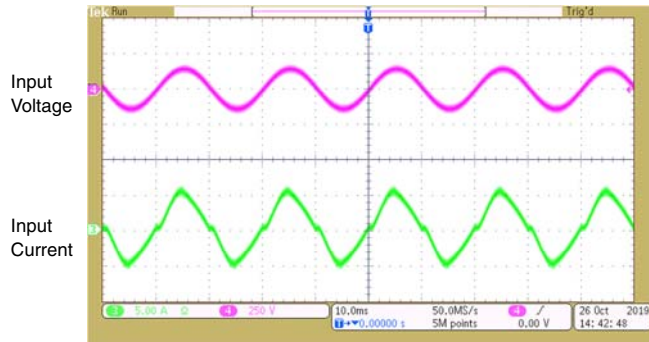
PFC QM系列 **PFC3819QM-151K11B-00**

■ 参考工作波形

□ Input Voltage / Current

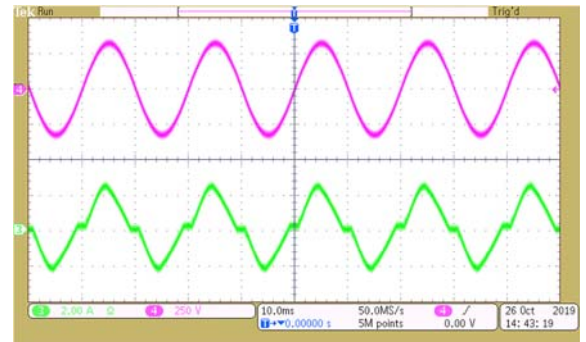
Vin=100Vac, Po=300W

5A/div 250V/div 10ms/div



Vin=230Vac, Po=300W

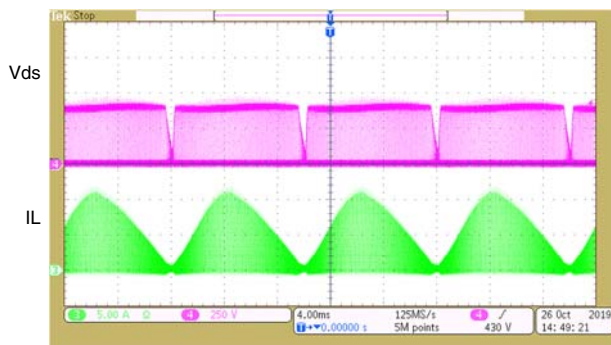
2A/div 250V/div 10ms/div



□ Vds / IL

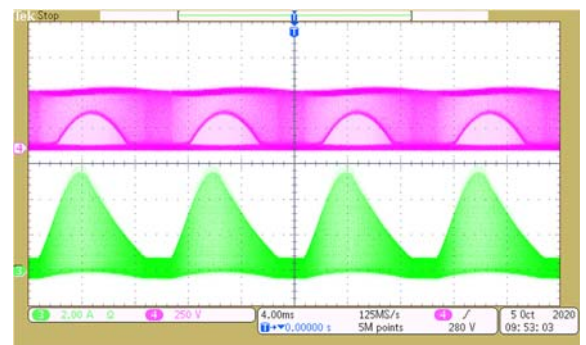
Vin=100Vac, Po=300W

5A/div 250V/div 4ms/div



Vin=230Vac, Po=300W

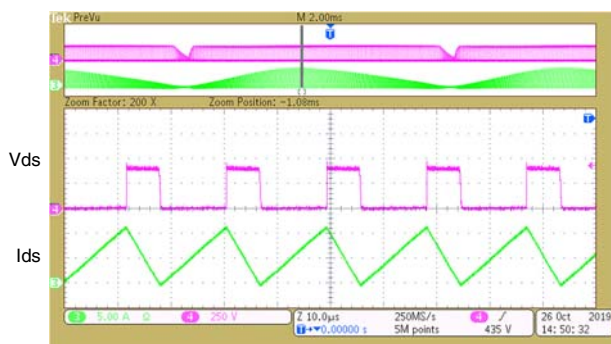
2A/div 250V/div 4ms/div



□ Vds / Ids

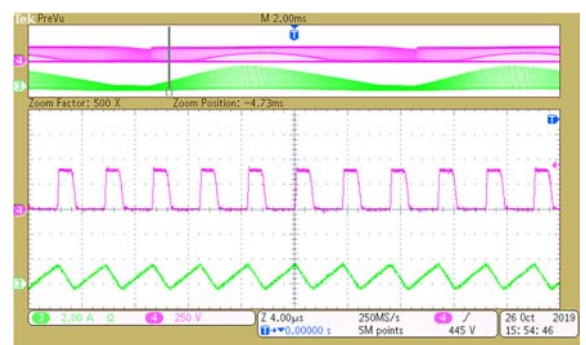
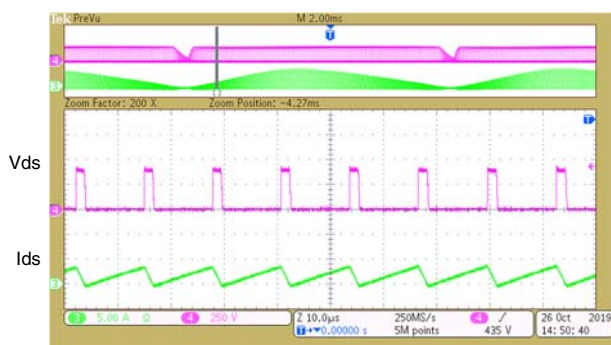
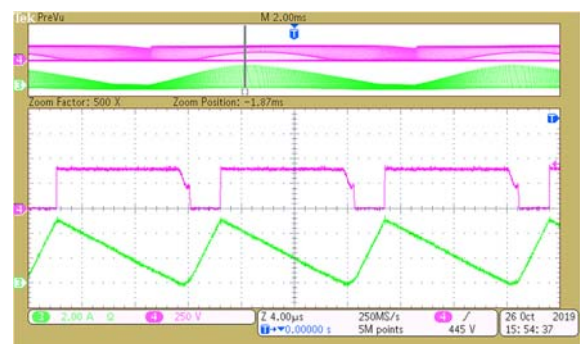
Vin=100Vac, Po=300W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=300W

2A/div 250V/div 4μs/div



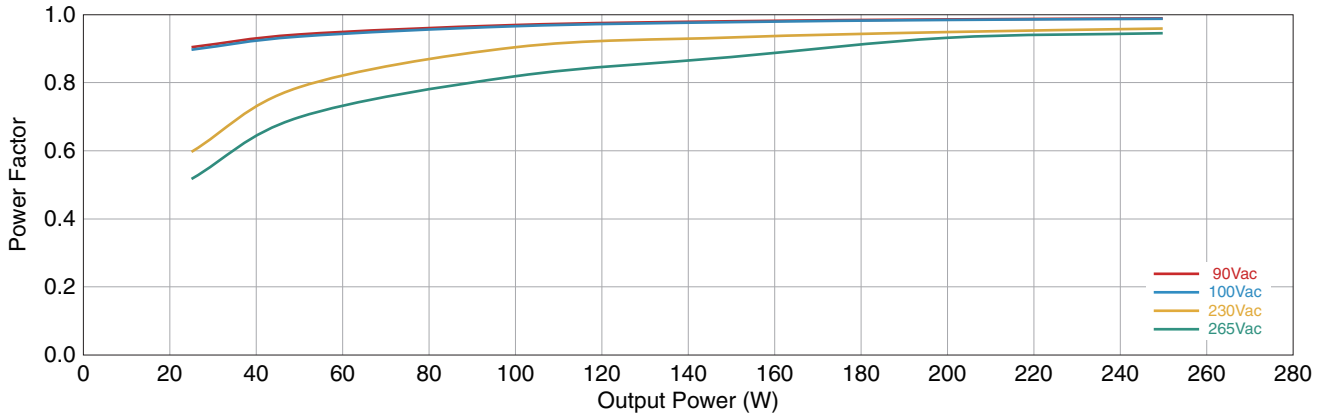
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PFC QM系列 **PFC4124QM-181K09D-00**

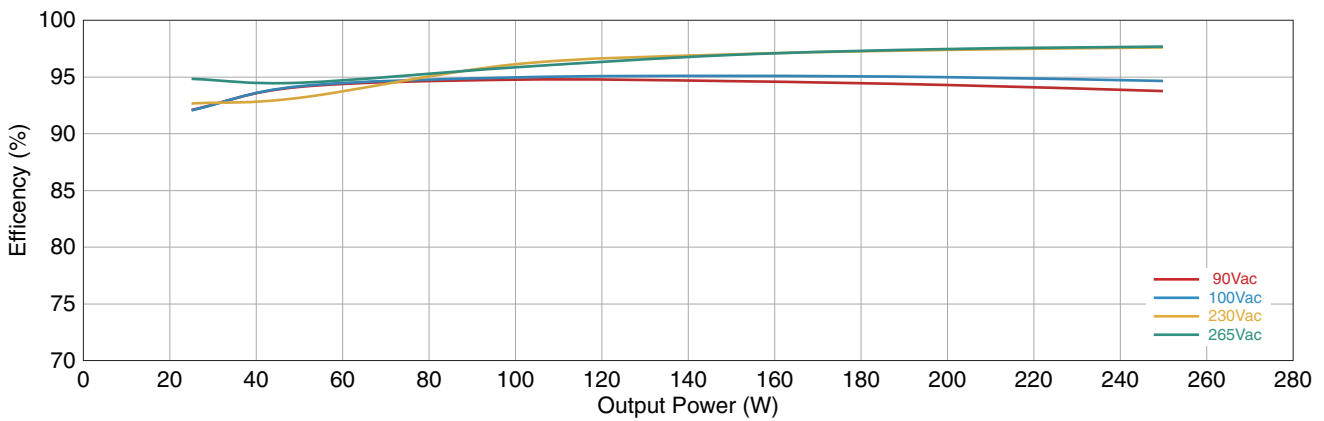
■ 参考动态特性

Vout = 394Vdc

□ Power Factor



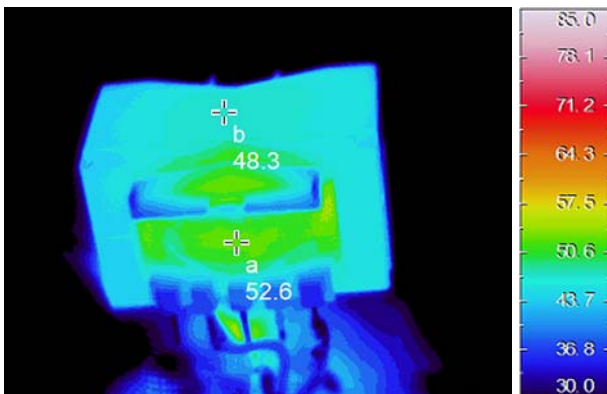
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 394Vdc, Pout = 250W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

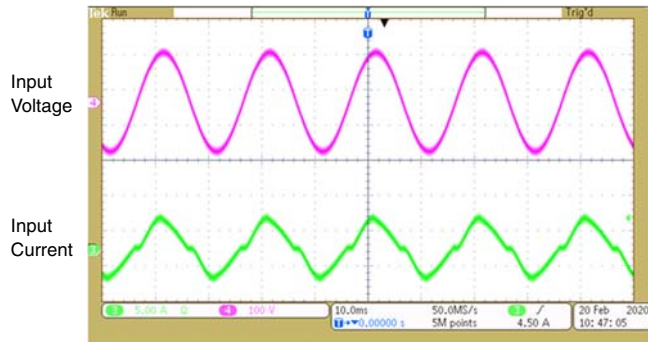
PFC QM系列 **PFC4124QM-181K09D-00**

■ 参考工作波形

□ Input Voltage / Current

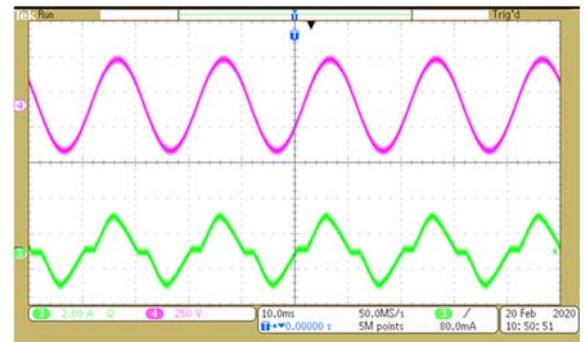
Vin=100Vac, Po=250W

5A/div 100V/div 10ms/div



Vin=230Vac, Po=250W

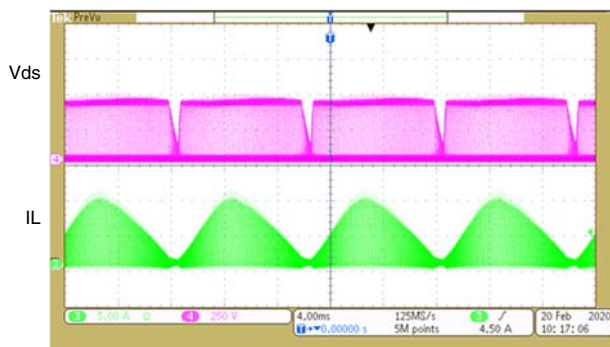
2A/div 250V/div 10ms/div



□ Vds / IL

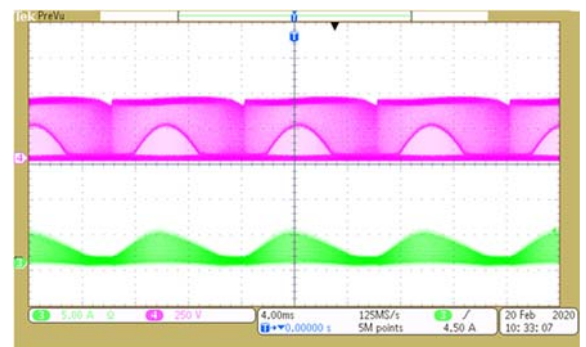
Vin=100Vac, Po=250W

5A/div 250V/div 4ms/div



Vin=230Vac, Po=250W

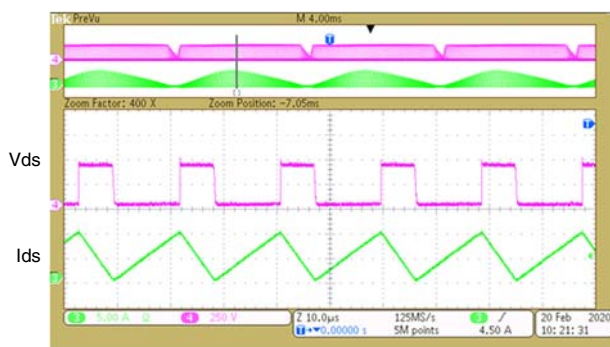
5A/div 250V/div 4ms/div



□ Vds / Ids

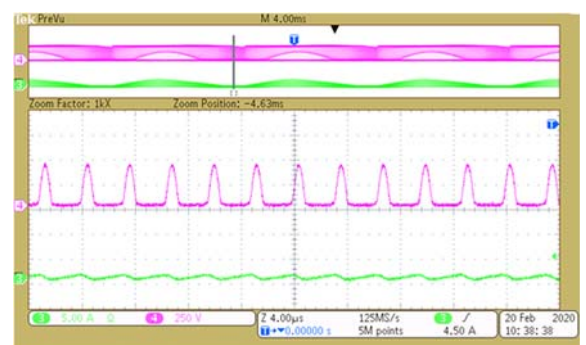
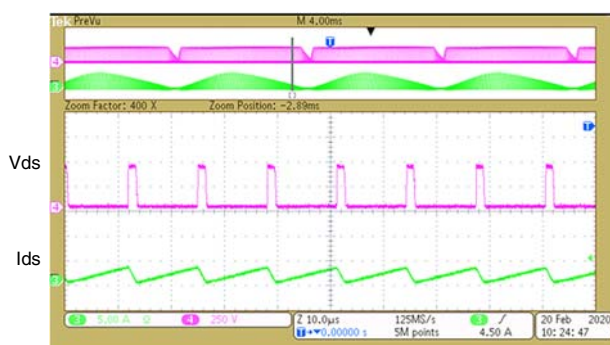
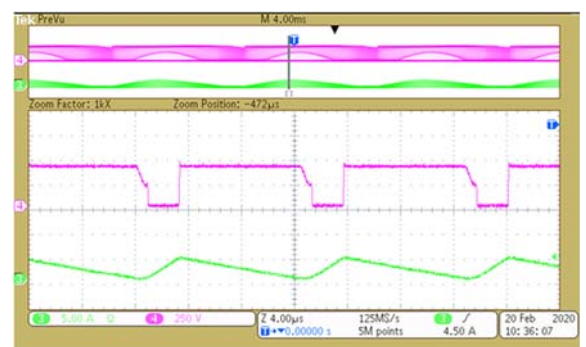
Vin=100Vac, Po=250W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=250W

5A/div 250V/div 4μs/div

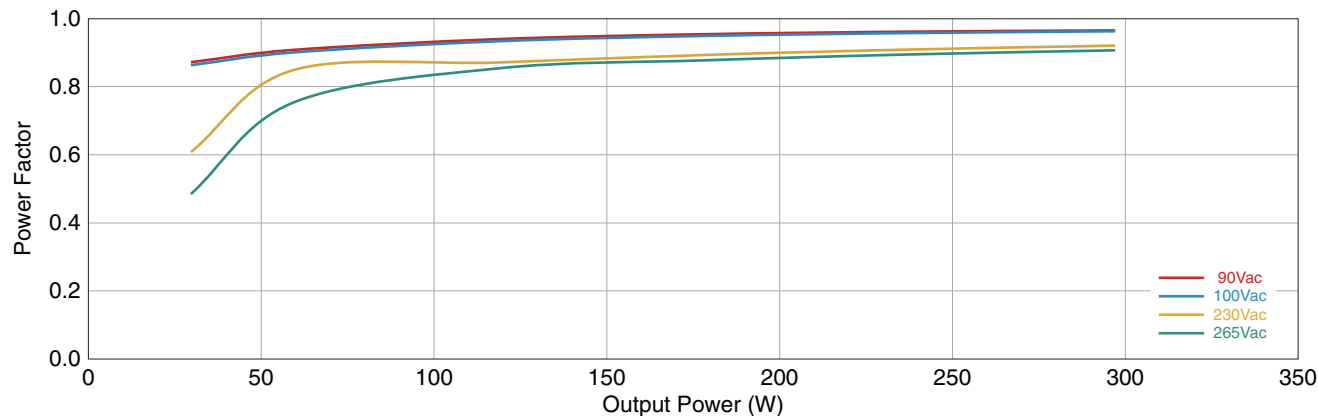


PFC QM系列 **PFC4124QM-151K11D-00**

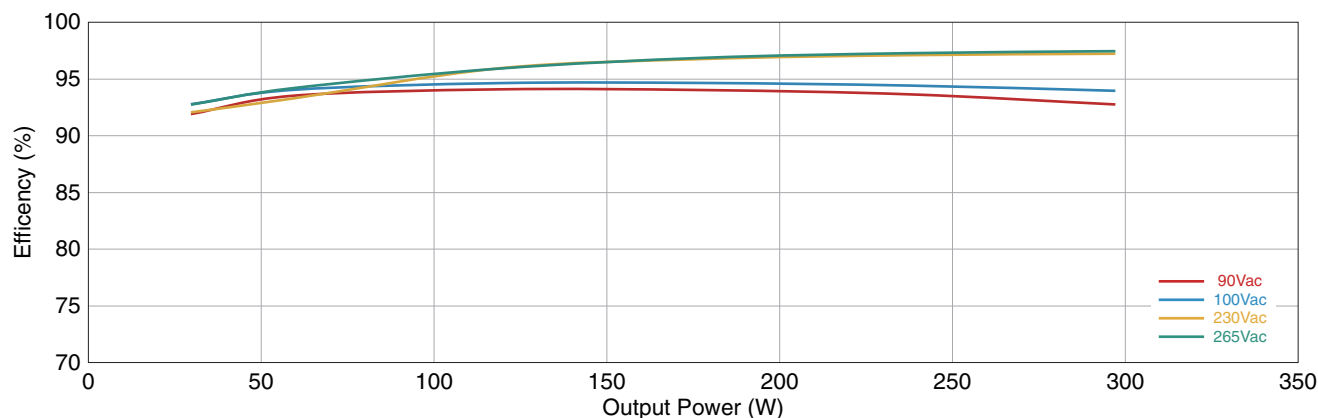
■ 参考动态特性

Vout = 394Vdc

□ Power Factor



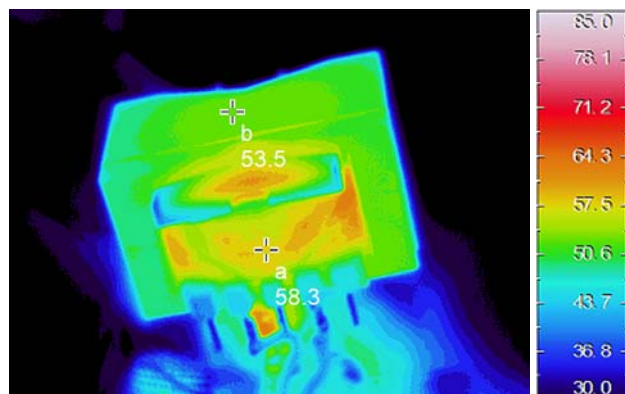
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 392Vdc, Pout = 300W, Room Temp.

a : Core Surface, b : Coil Surface



注意：PFC 扼流圈的温度是在从板上浮动时测量的。

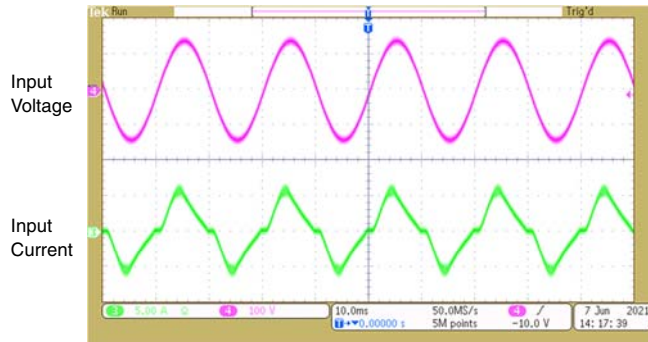
PFC QM系列 **PFC4124QM-151K11D-00**

■ 参考工作波形

□ Input Voltage / Current

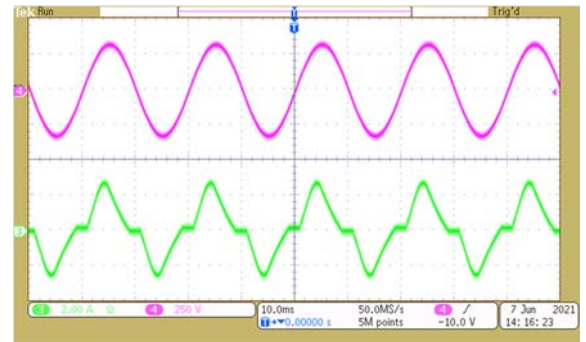
Vin=100Vac, Po=300W

5A/div 100V/div 10ms/div



Vin=230Vac, Po=300W

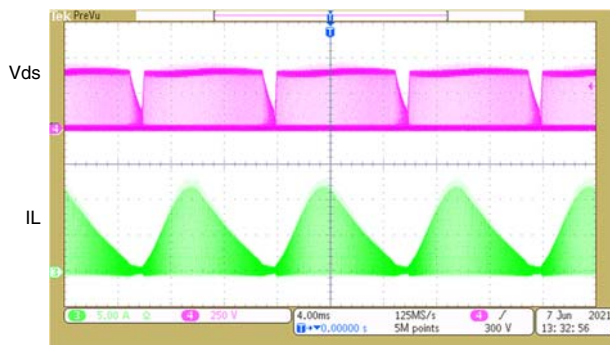
2A/div 250V/div 10ms/div



□ Vds / IL

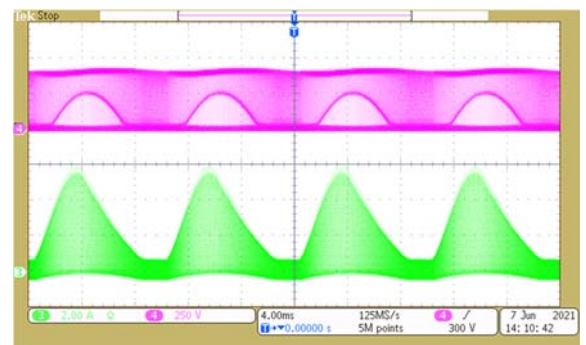
Vin=100Vac, Po=300W

5A/div 250V/div 4ms/div



Vin=230Vac, Po=300W

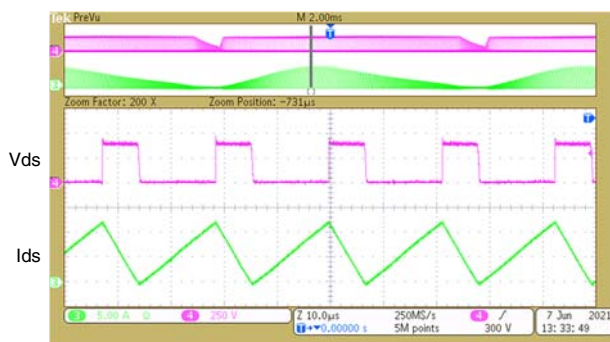
2A/div 250V/div 4ms/div



□ Vds / Ids

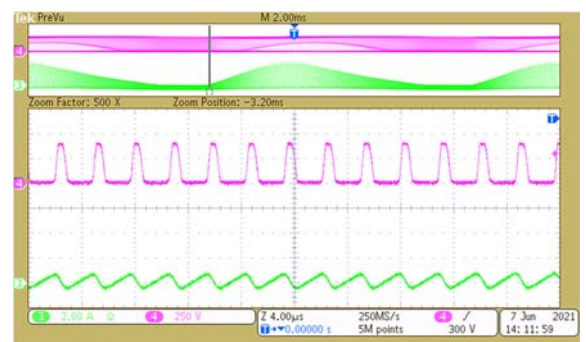
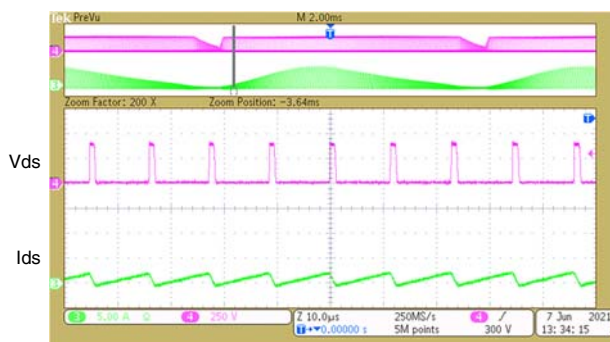
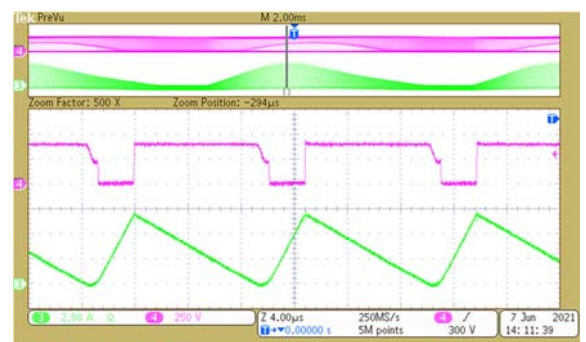
Vin=100Vac, Po=300W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=300W

2A/div 250V/div 4μs/div



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PFC QM系列 **PFC输出功率：125~300W**

■ 参考电路图

