



PFC用扼流圈 动态特性数据

插针端子型

PFC ER系列

PFC2723ER

PFC3125ER

PFC3525ER

PFC用扼流圈

PFC ER系列

■特点

- PFC ER 系列实现了较小的占地面积。
- 额定输入电压对应AC100~240V。
- PFC 输出功率对应 75~250W。

■目录

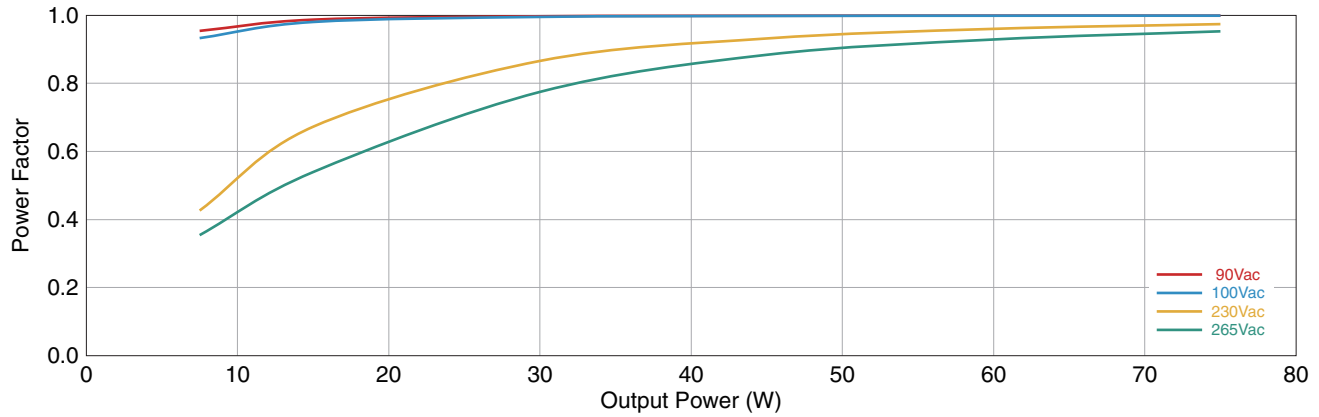
型号	高度	PFC 输出功率	页
PFC2723ER-601K02B-00	26mm	75W	3
PFC2723ER-421K03B-50	26mm	100W	5
PFC3125ER-451K03E-00	27mm	100W	7
PFC3125ER-301K05B-00	27mm	150W	9
PFC3125ER-231K06B-00	27mm	200W	11
PFC3525ER-301K04E-00	27mm	150W	13
PFC3525ER-231K06E-00	27mm	200W	15
PFC3525ER-181K09B-00	27mm	250W	17
参考电路图		75 ~ 100W	19
参考电路图		125 ~ 250W	20

PFC ER系列 **PFC2723ER-601K02B-00**

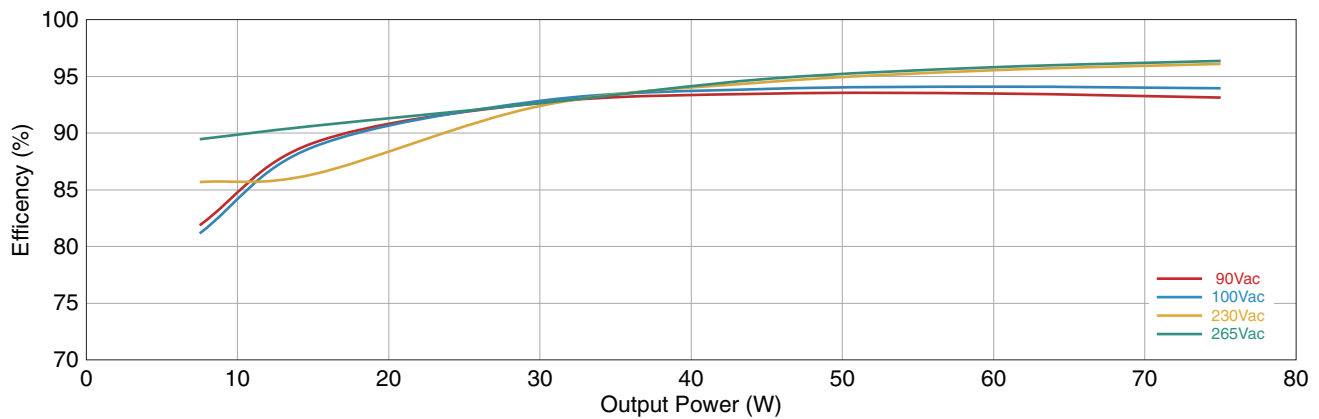
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



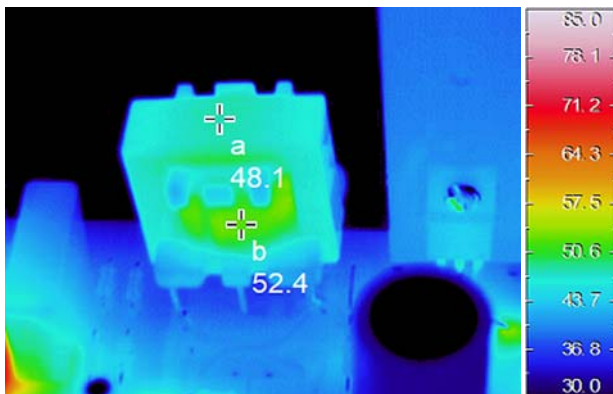
□ Efficiency



■ 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。

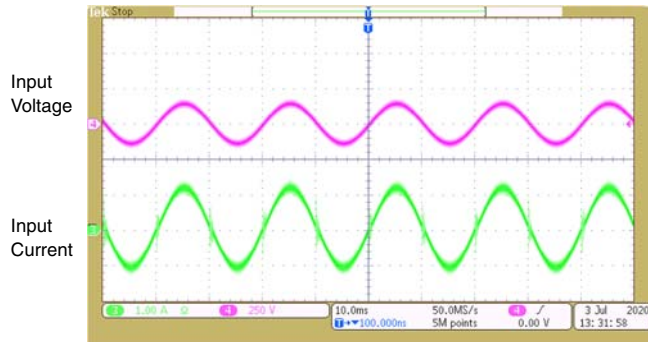
PFC ER系列 **PFC2723ER-601K02B-00**

■ 参考工作波形

□ Input Voltage / Current

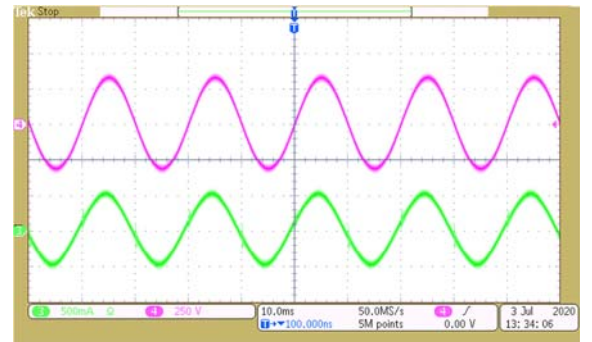
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1A/div 250V/div 10ms/div



Vin=230Vac, Po=75W

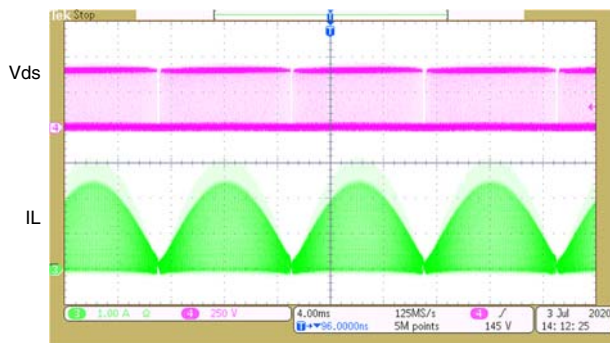
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□ Vds / IL

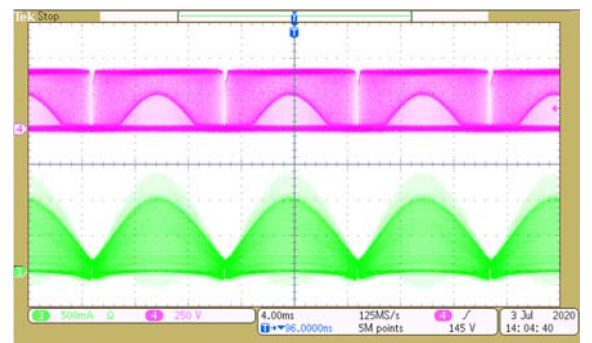
Vin=100Vac, Po=75W

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



Vin=230Vac, Po=75W

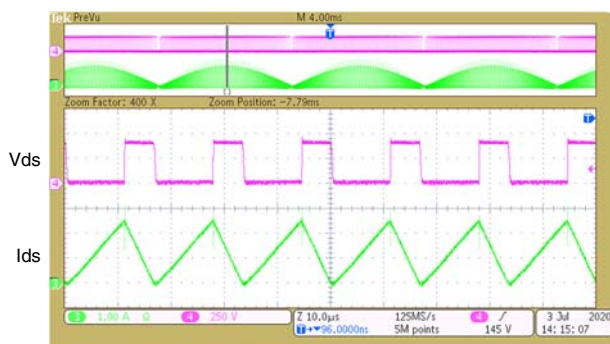
0.5A/div 250V/div 4ms/div



□ Vds / Ids

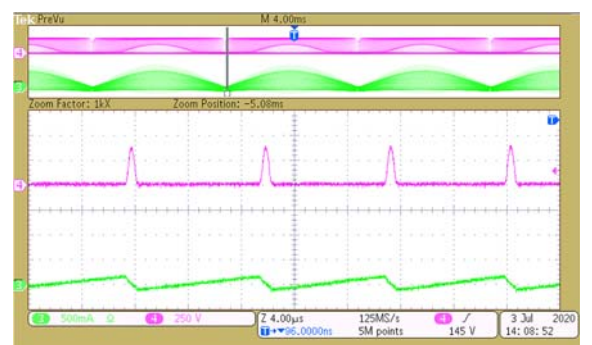
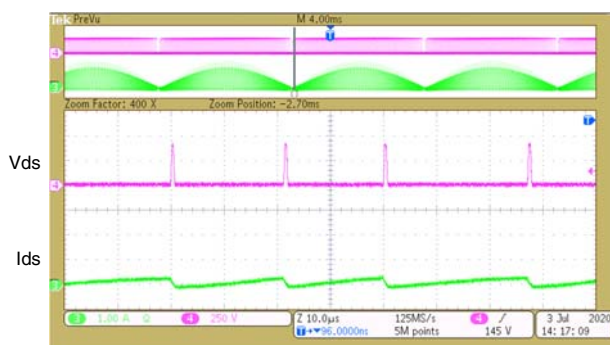
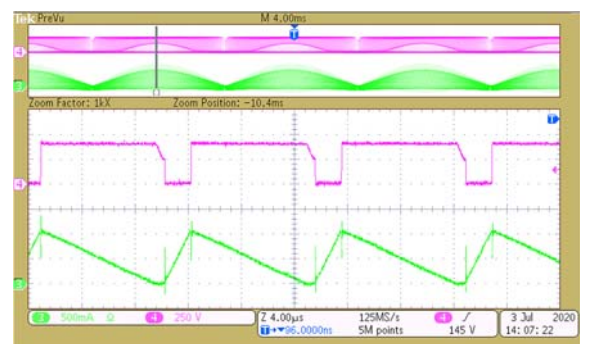
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1A/div 250V/div 10μs/div



Vin=230Vac, Po=75W

0.5A/div 250V/div 4μs/div

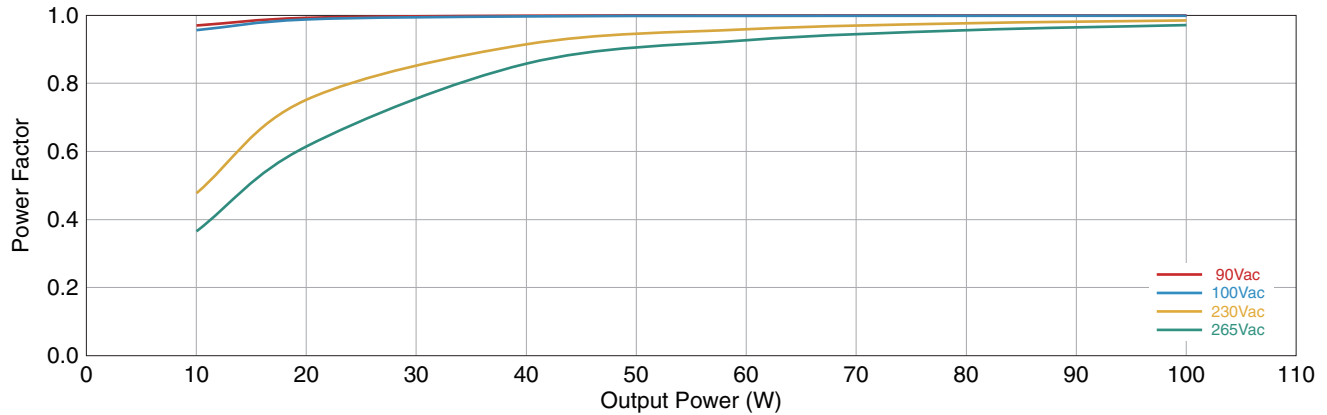


PFC ER系列 **PFC2723ER-421K03B-50**

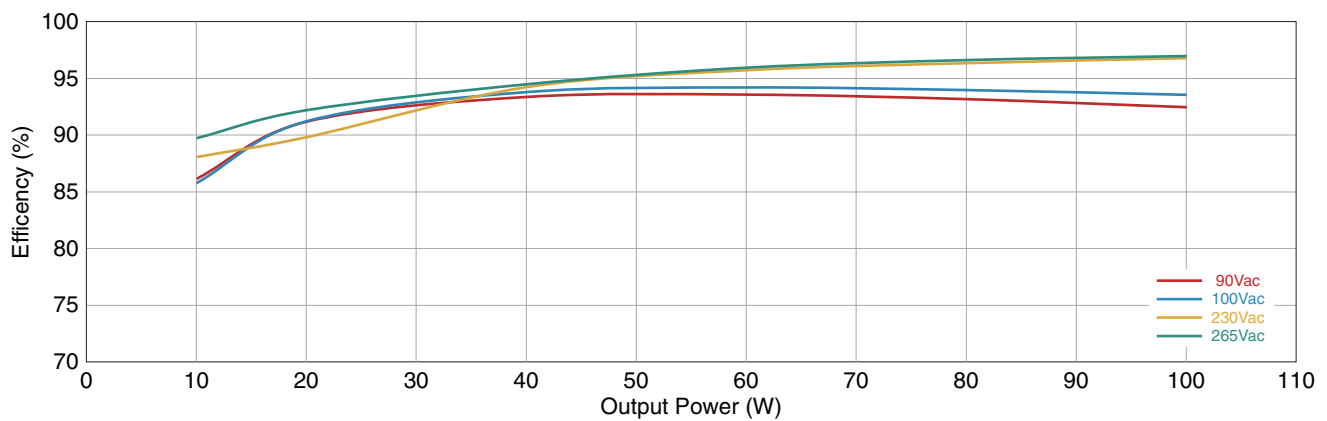
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



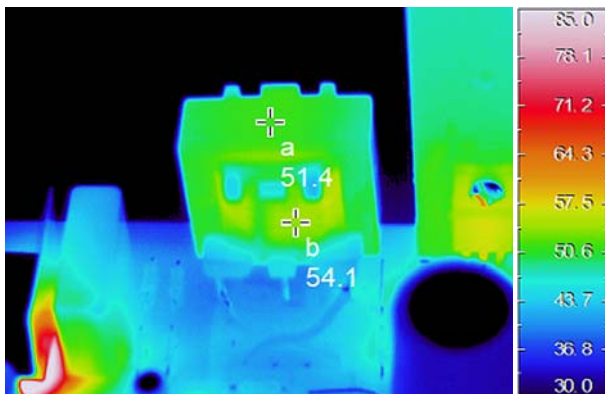
□ Efficiency



■ 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。

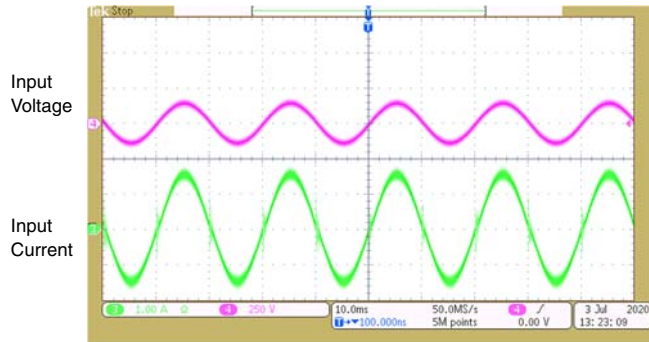
PFC ER系列 **PFC2723ER-421K03B-50**

■ 参考工作波形

□ Input Voltage / Current

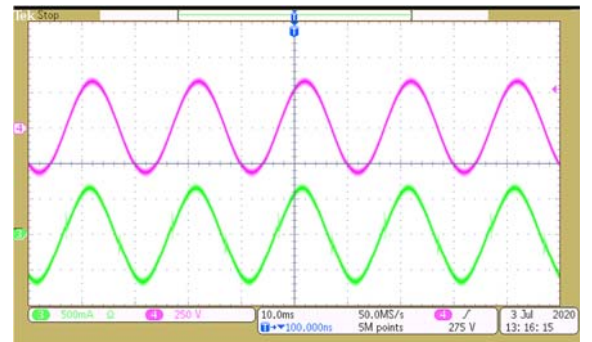
Vin=100Vac, Po=100W

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



Vin=230Vac, Po=100W

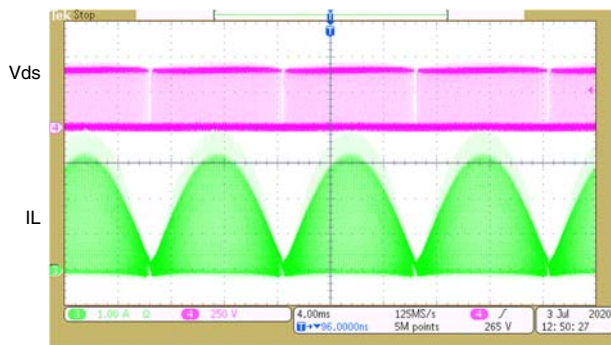
0.5A/div 250V/div 10ms/div



□ Vds / IL

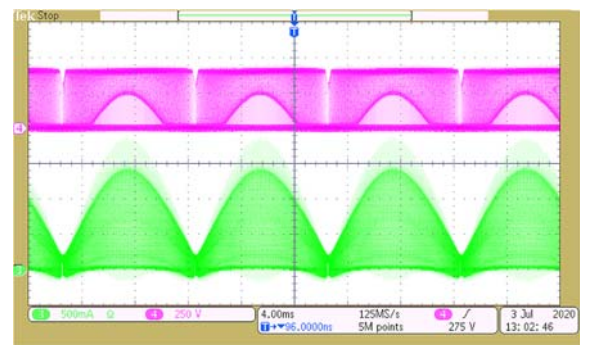
Vin=100Vac, Po=100W

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



Vin=230Vac, Po=100W

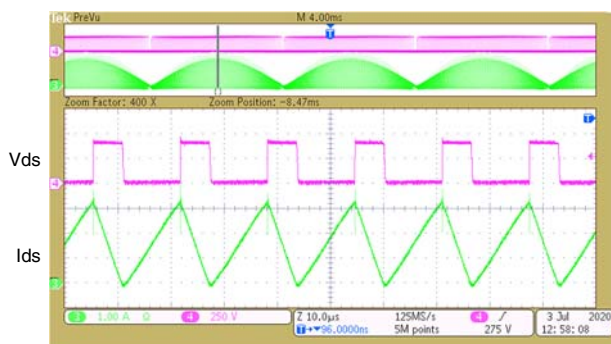
0.5A/div 250V/div 4ms/div



□ Vds / Ids

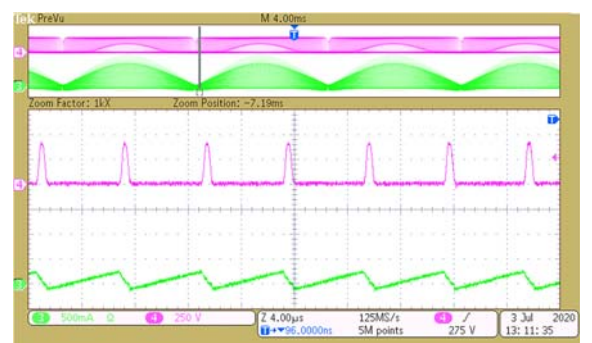
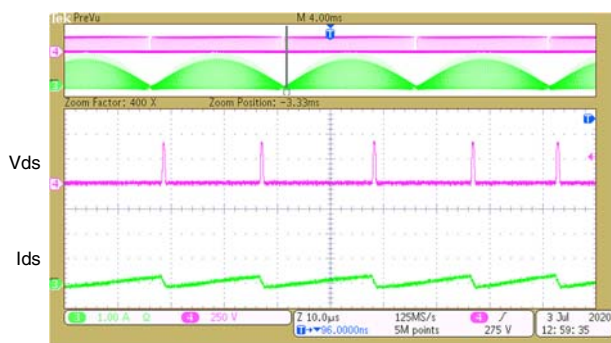
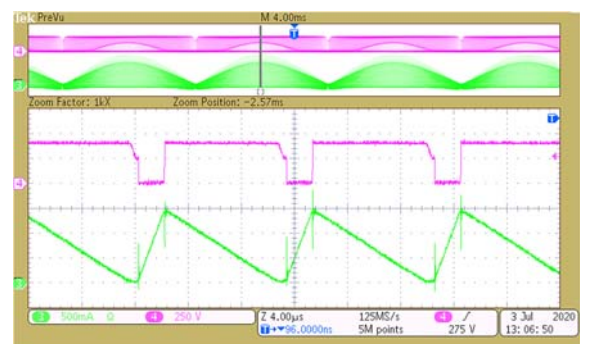
Vin=100Vac, Po=100W

1A/div 250V/div 10μs/div



Vin=230Vac, Po=100W

0.5A/div 250V/div 4μs/div

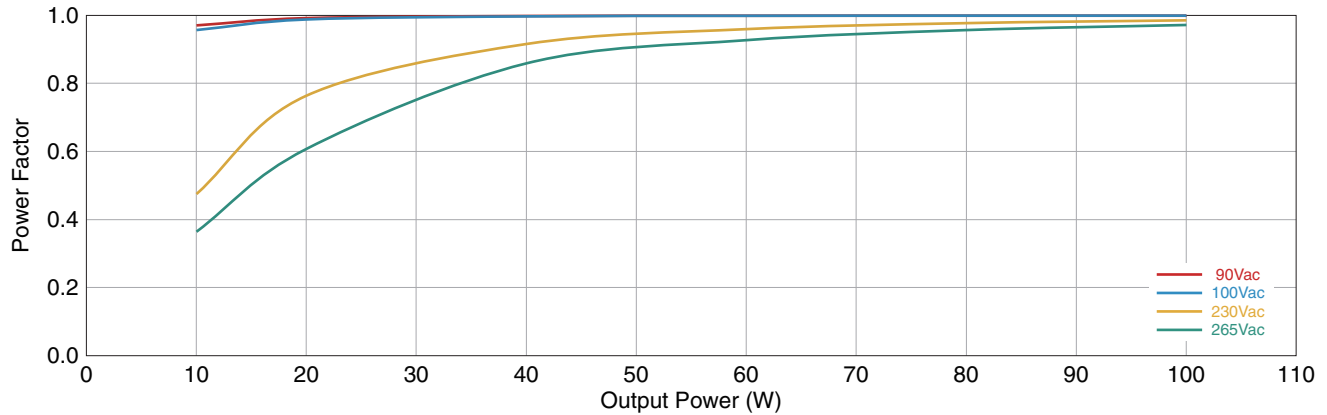


PFC ER系列 **PFC3125ER-451K03E-00**

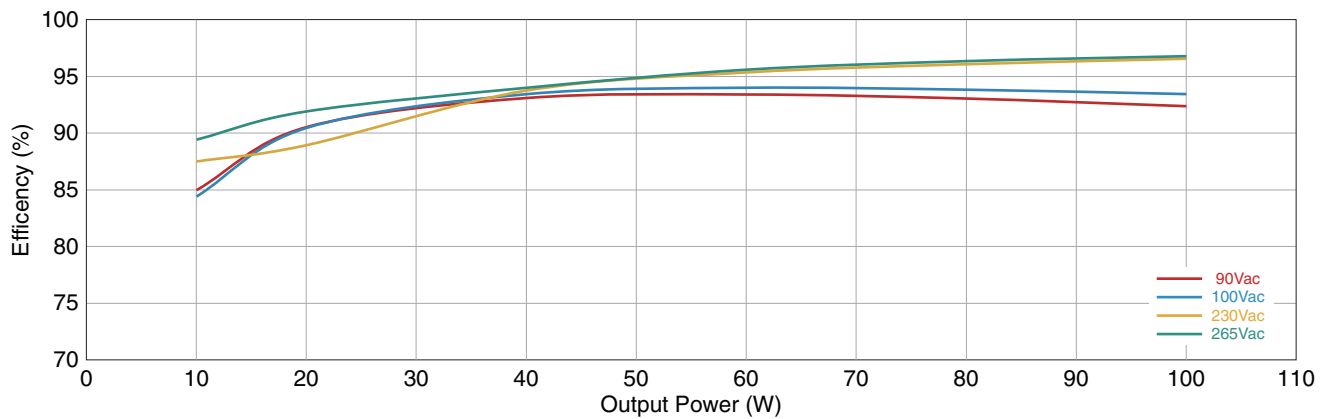
■ 参考动态特性

Vout = 396Vdc

□ Power Factor



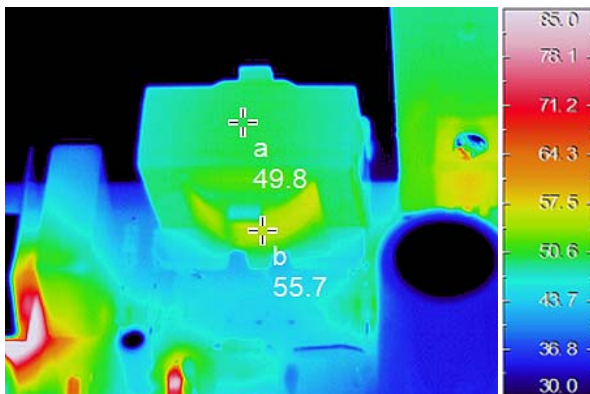
□ Efficiency



■ 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。

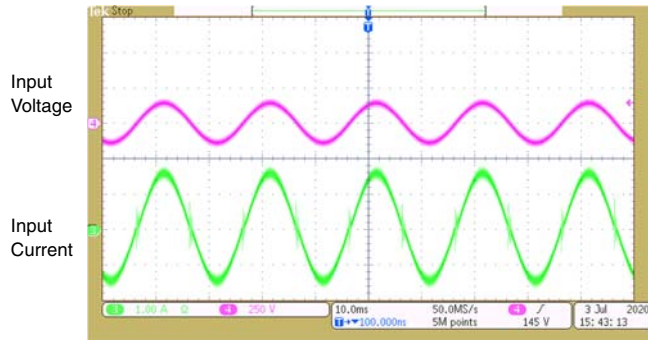
PFC ER系列 **PFC3125ER-451K03E-00**

■ 参考工作波形

□ Input Voltage / Current

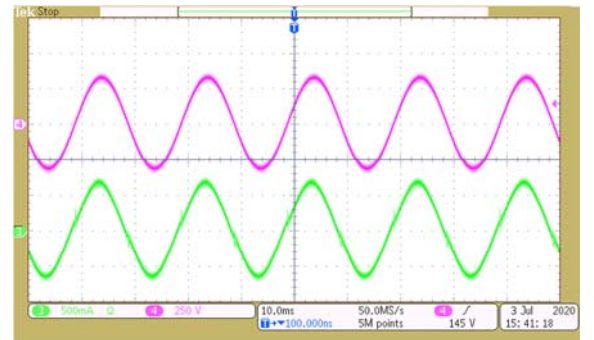
Vin=100Vac, Po=100W

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



Vin=230Vac, Po=100W

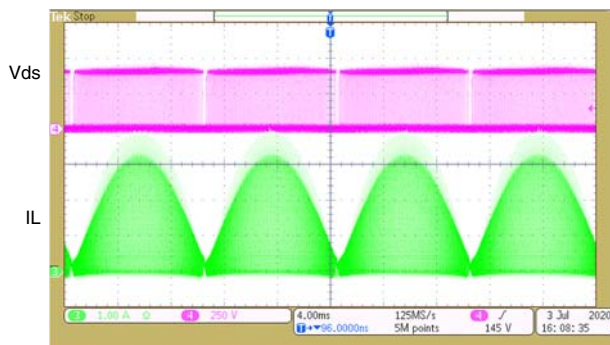
0.5A/div 250V/div 10ms/div



□ Vds / IL

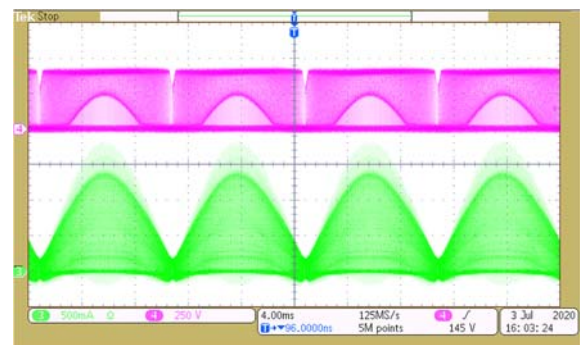
Vin=100Vac, Po=100W

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



Vin=230Vac, Po=100W

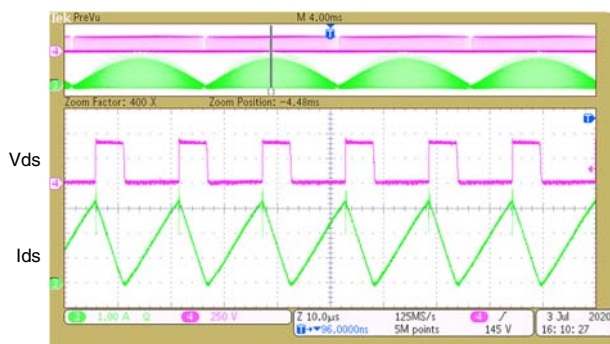
0.5A/div 250V/div 4ms/div



□ Vds / Ids

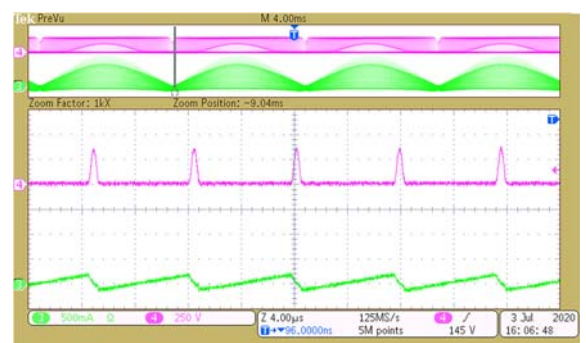
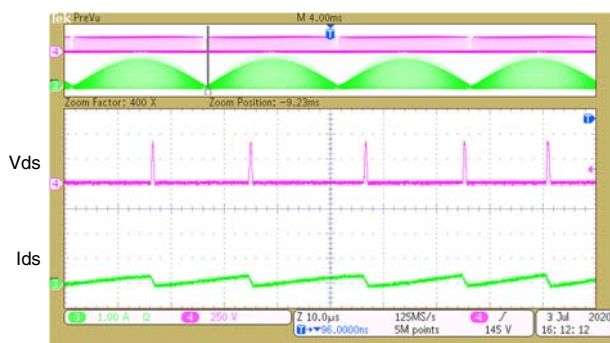
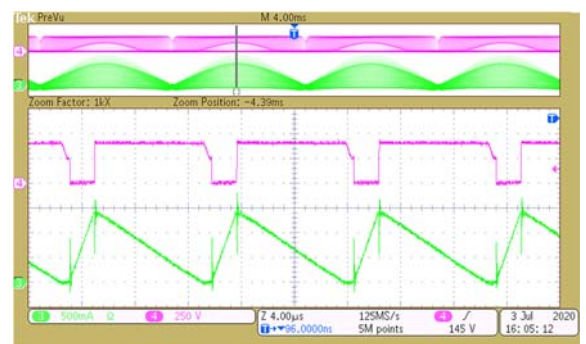
Vin=100Vac, Po=100W

1A/div 250V/div 10μs/div



Vin=230Vac, Po=100W

0.5A/div 250V/div 4μs/div

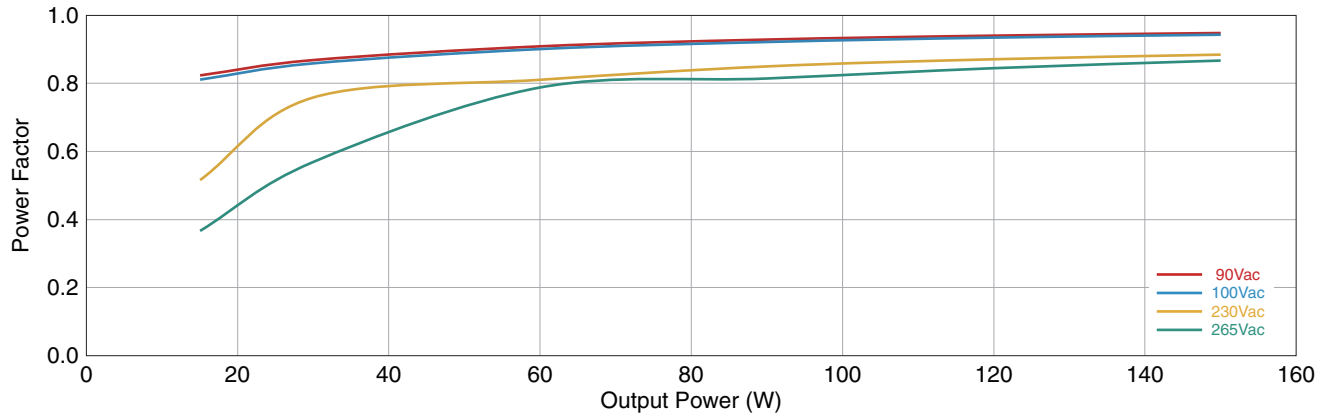


PFC ER系列 **PFC3125ER-301K05B-00**

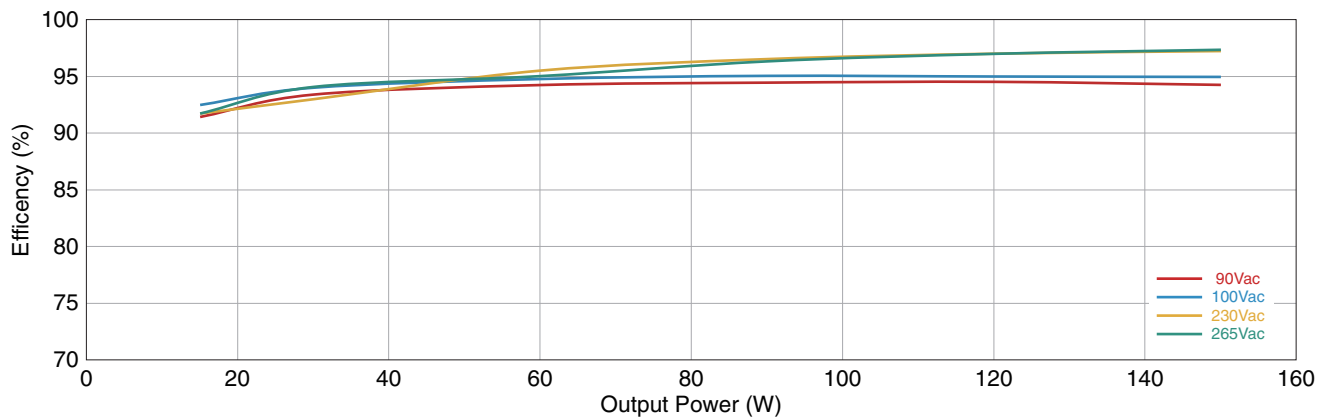
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



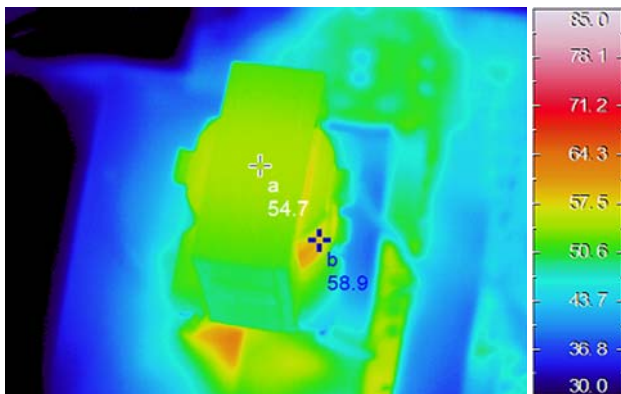
□ Efficiency



■ 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。

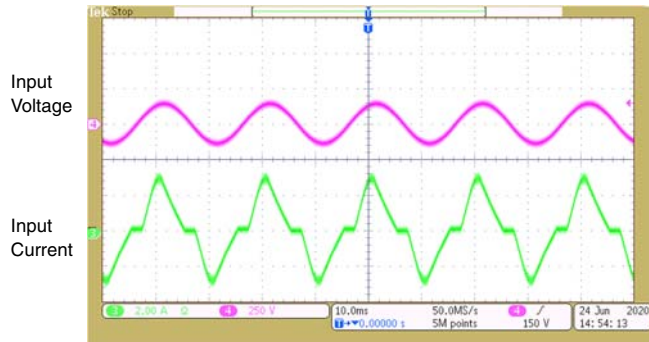
PFC ER系列 **PFC3125ER-301K05B-00**

■ 参考工作波形

□ Input Voltage / Current

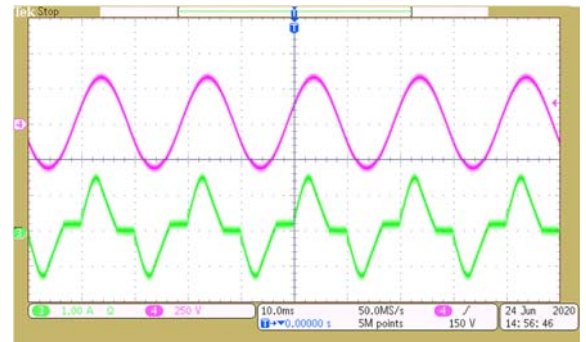
Vin=100Vac, Po=150W

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



Vin=230Vac, Po=150W

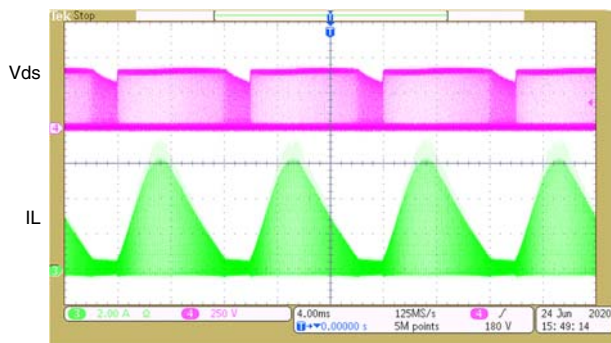
1A/div 250V/div 10ms/div



□ Vds / IL

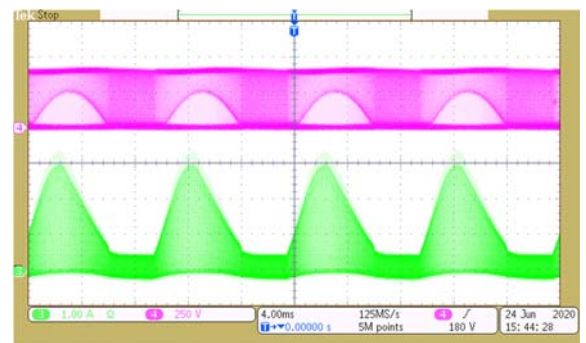
Vin=100Vac, Po=150W

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



Vin=230Vac, Po=150W

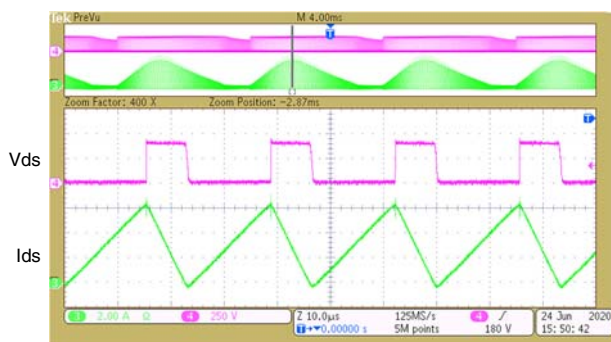
1A/div 250V/div 4ms/div



□ Vds / Ids

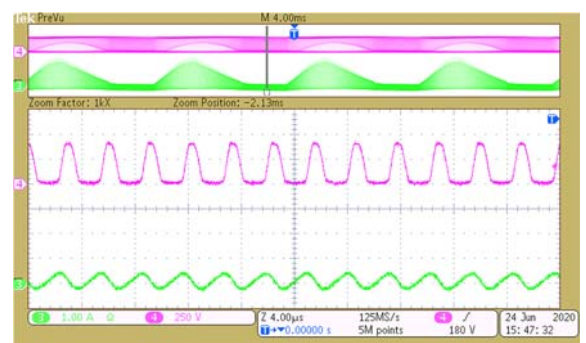
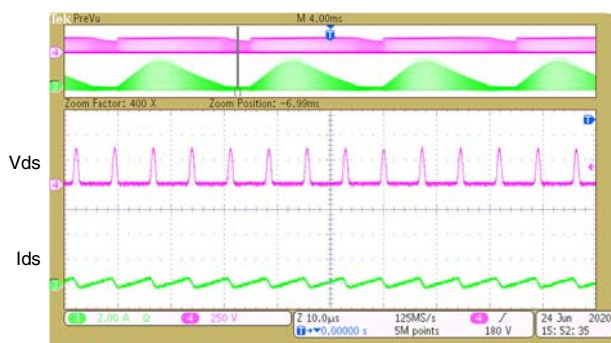
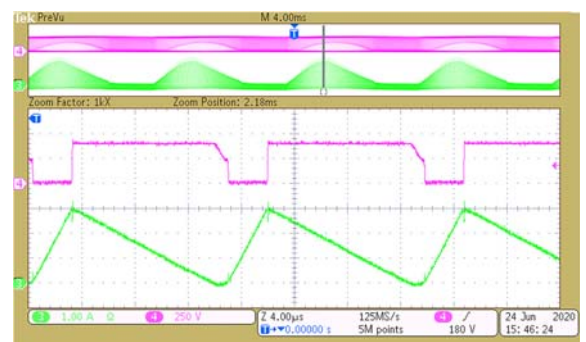
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2A/div 250V/div 10μs/div



Vin=230Vac, Po=150W

1A/div 250V/div 4μs/div

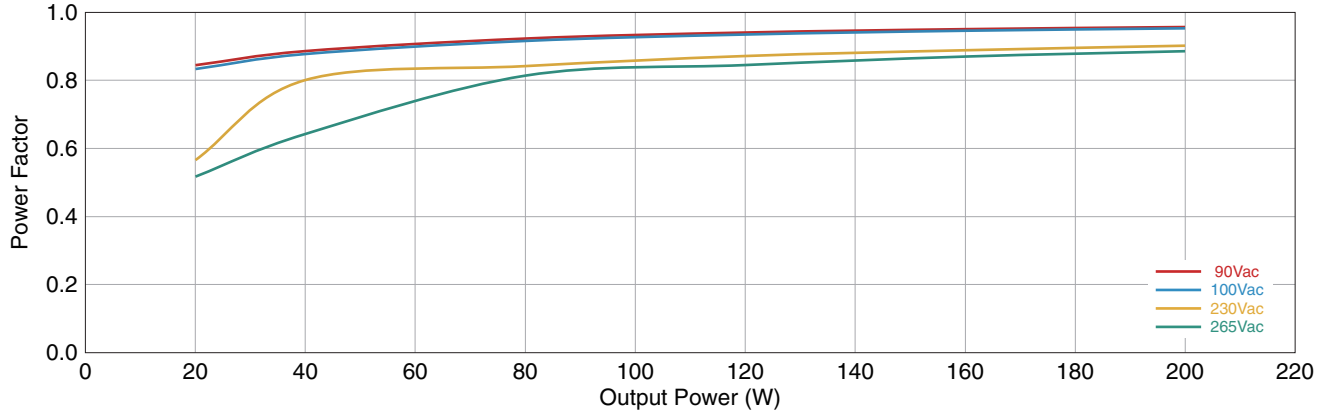


PFC ER系列 **PFC3125ER-231K06B-00**

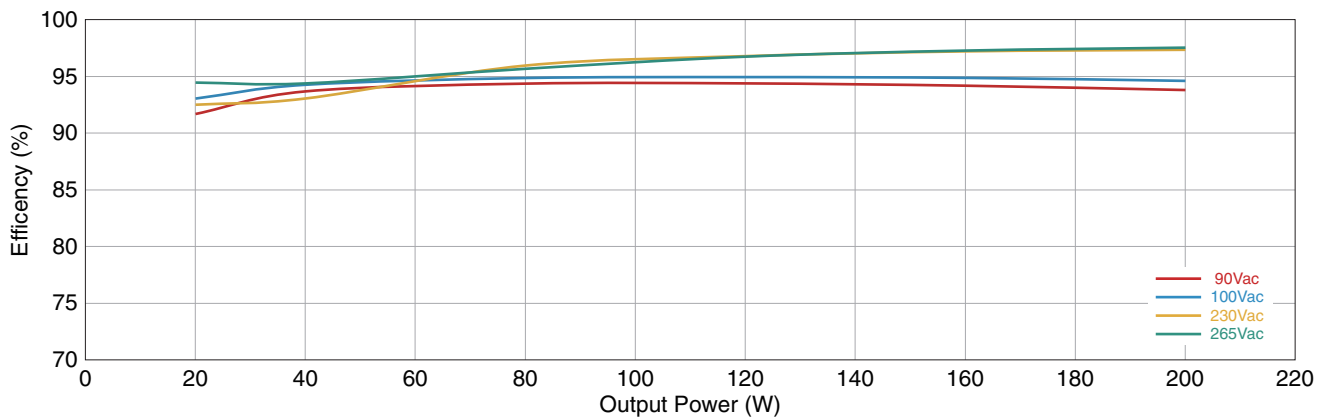
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



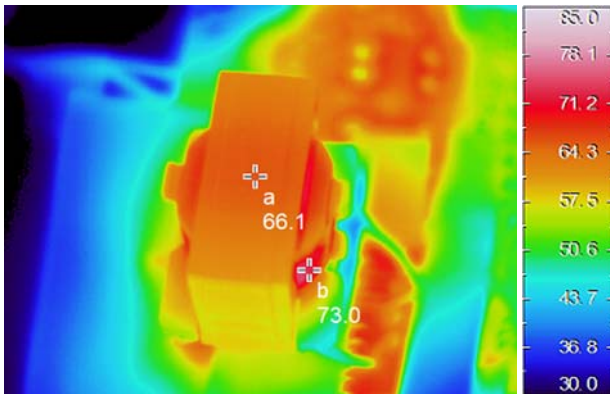
□ Efficiency



■ 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。

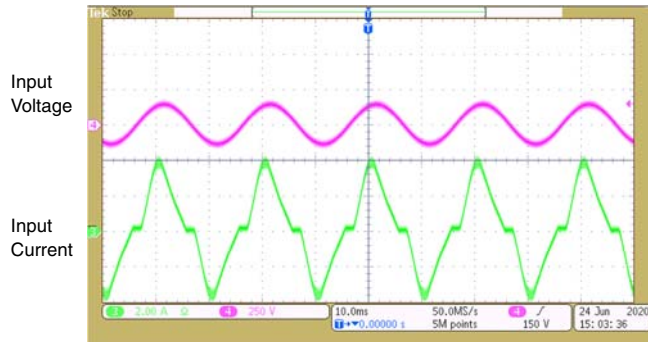
PFC ER系列 **PFC3125ER-231K06B-00**

■ 参考工作波形

□ Input Voltage / Current

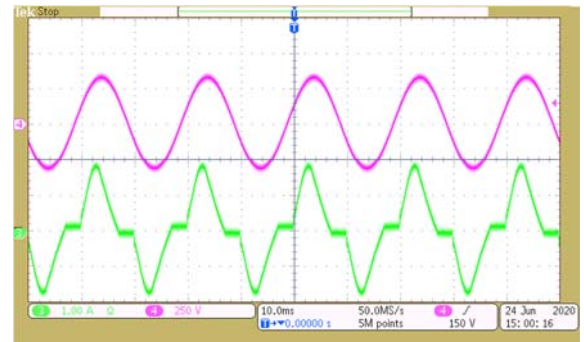
Vin=100Vac, Po=200W

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



Vin=230Vac, Po=200W

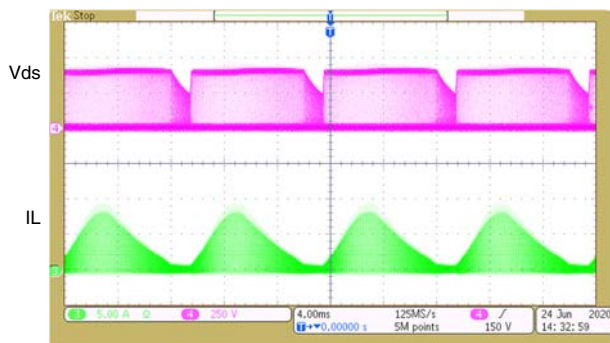
1A/div 250V/div 10ms/div



□ Vds / IL

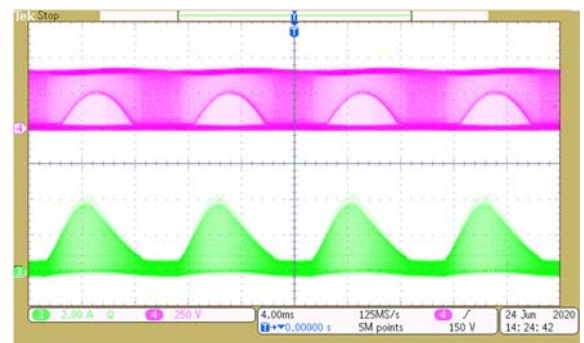
Vin=100Vac, Po=200W

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



Vin=230Vac, Po=200W

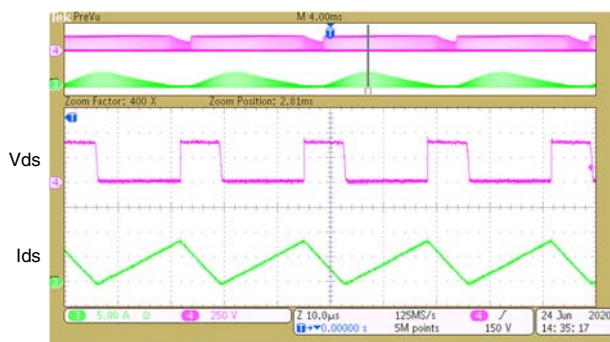
2A/div 250V/div 4ms/div



□ Vds / Ids

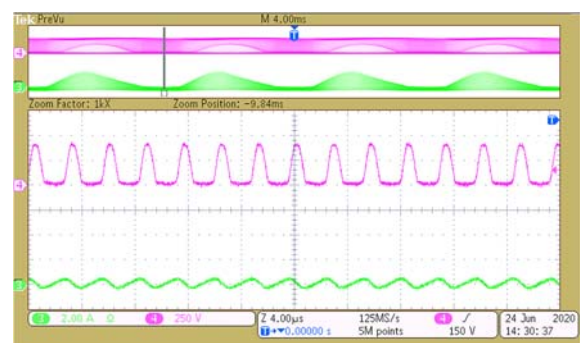
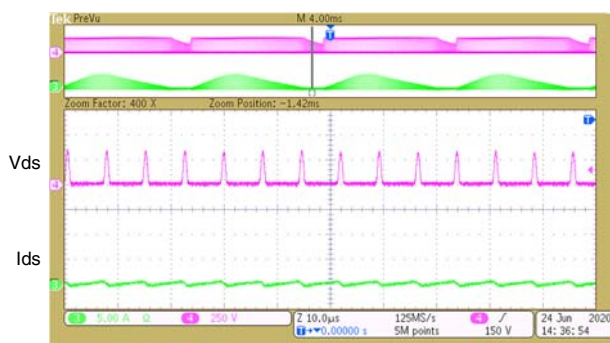
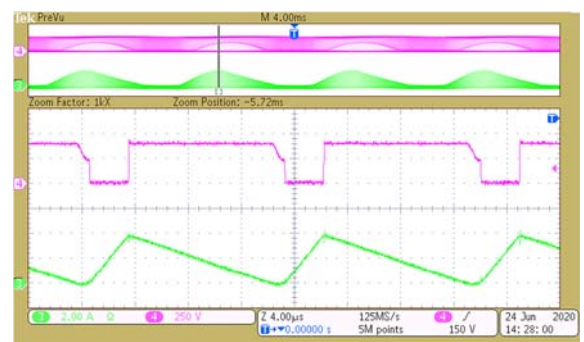
Vin=100Vac, Po=200W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=200W

2A/div 250V/div 4μs/div

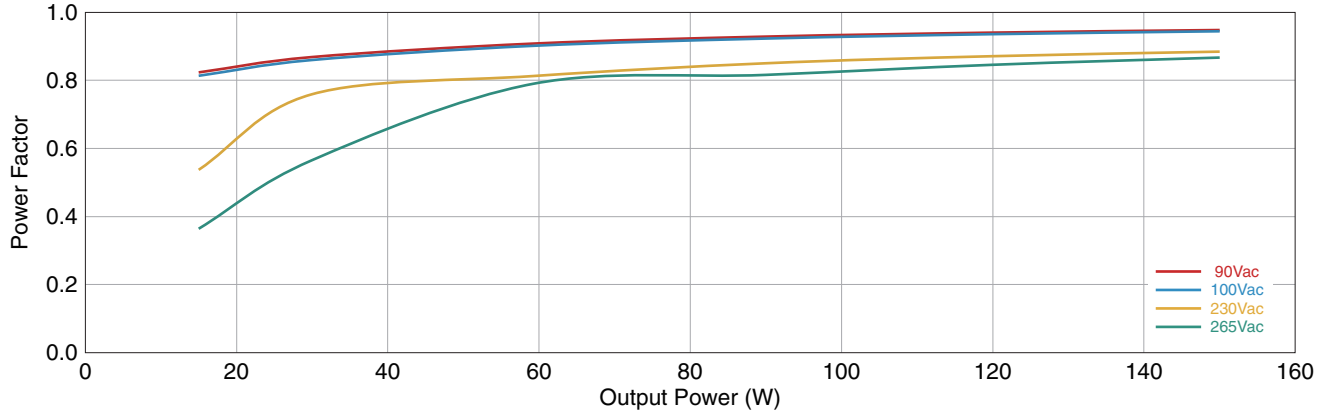


PFC ER系列 **PFC3525ER-301K04E-00**

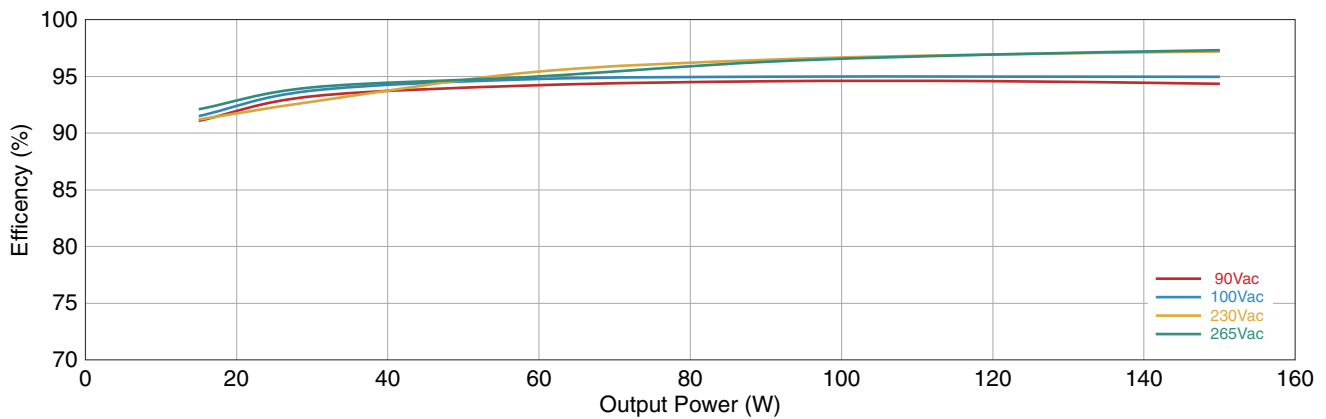
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



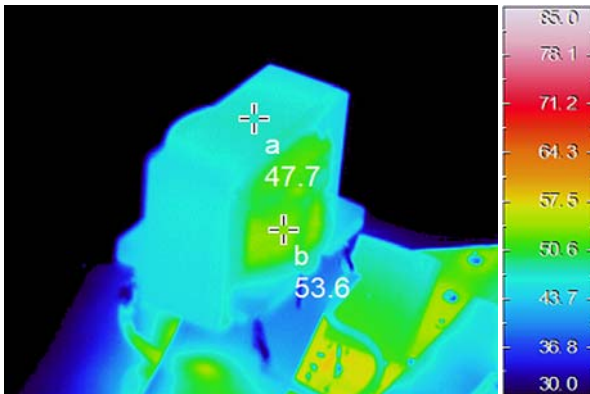
□ Efficiency



■ 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。

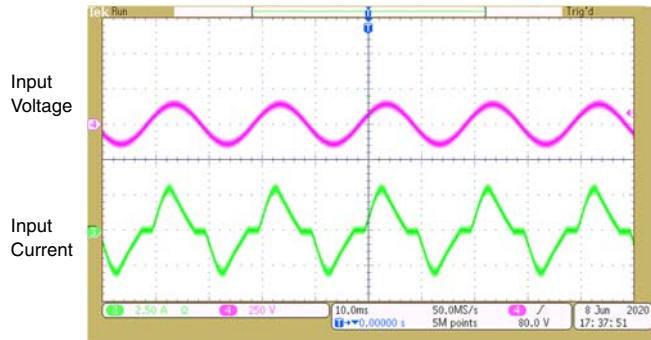
PFC ER系列 **PFC3525ER-301K04E-00**

■ 参考工作波形

□ Input Voltage / Current

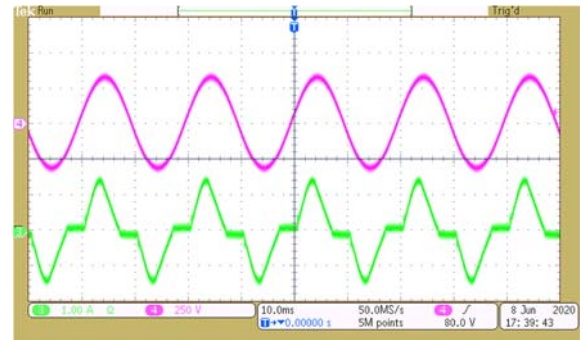
Vin=100Vac, Po=150W

2.5A/div 250V/div 10ms/div



Vin=230Vac, Po=150W

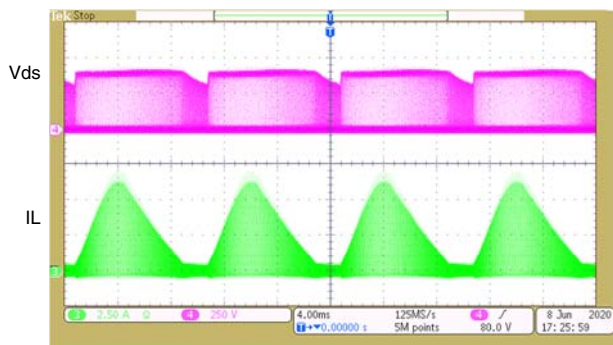
1A/div 250V/div 10ms/div



□ Vds / IL

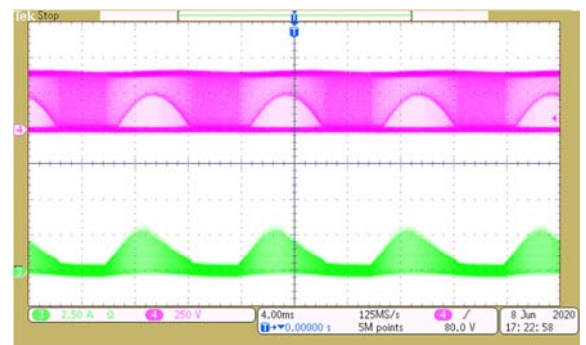
Vin=100Vac, Po=150W

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



Vin=230Vac, Po=150W

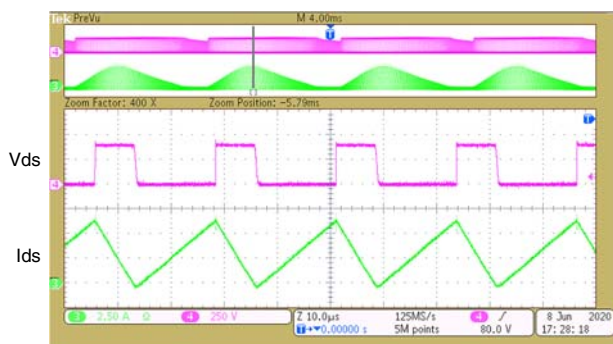
2.5A/div 250V/div 4ms/div



□ Vds / Ids

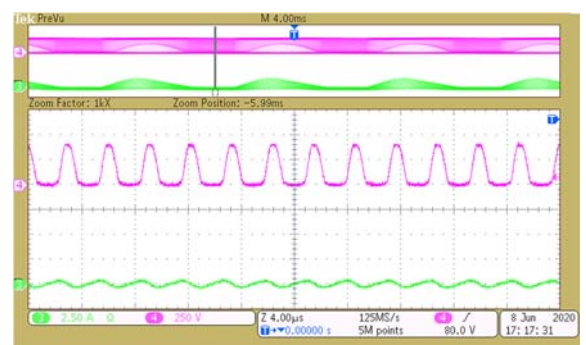
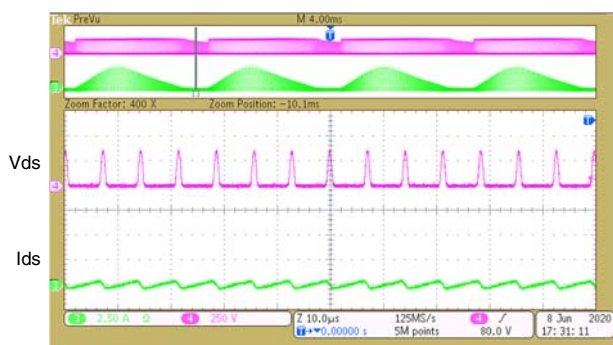
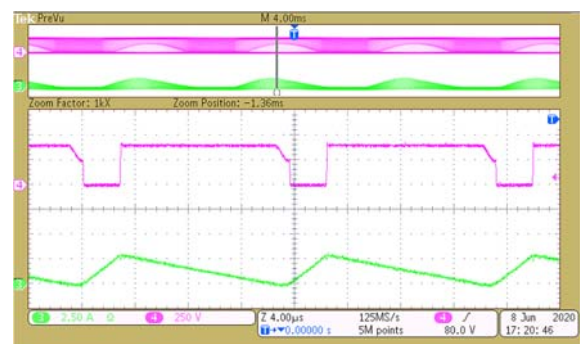
Vin=100Vac, Po=150W

2.5A/div 250V/div 10μs/div



Vin=230Vac, Po=150W

2.5A/div 250V/div 4μs/div

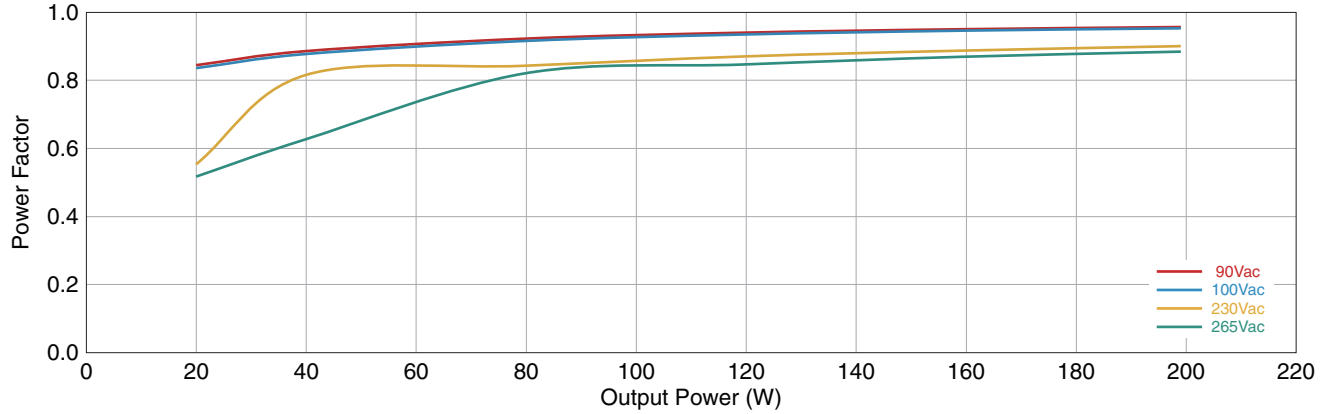


PFC ER系列 **PFC3525ER-231K06E-00**

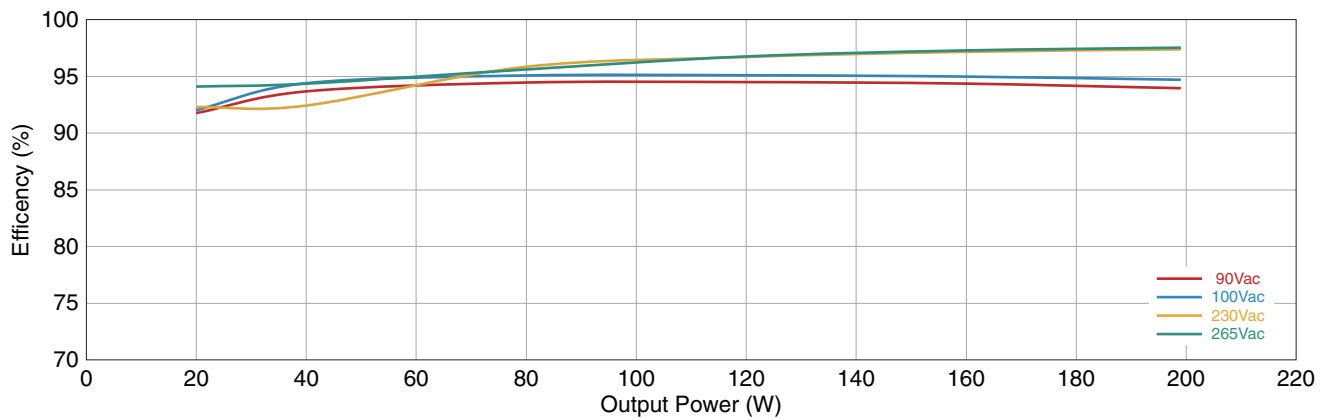
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



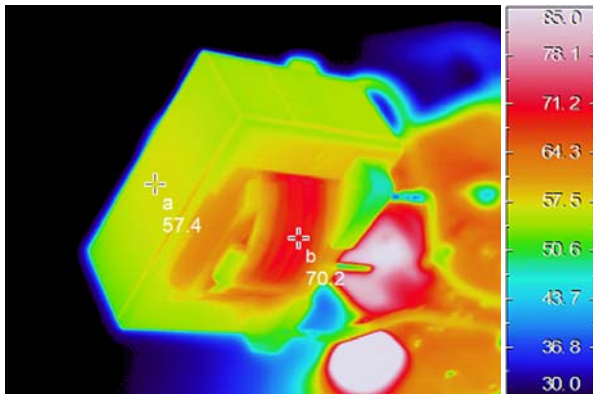
□ Efficiency



■ 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。

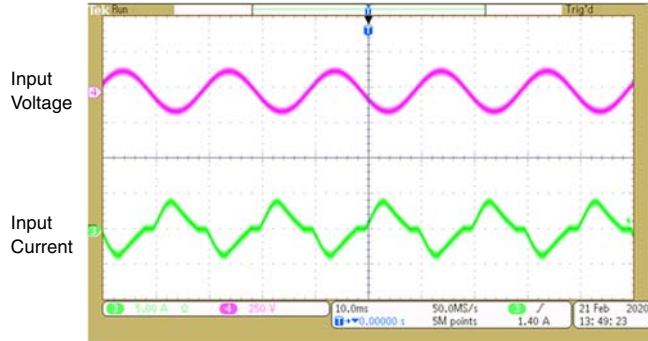
PFC ER系列 **PFC3525ER-231K06E-00**

■ 参考工作波形

□ Input Voltage / Current

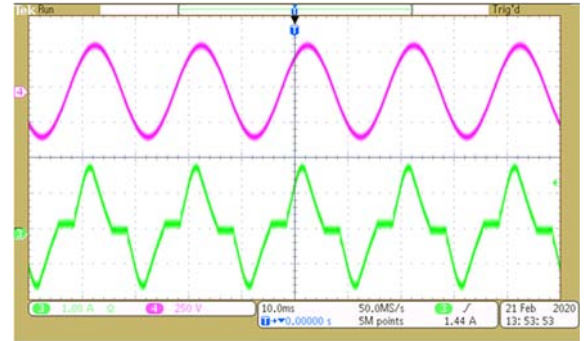
Vin=100Vac, Po=200W

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



Vin=230Vac, Po=200W

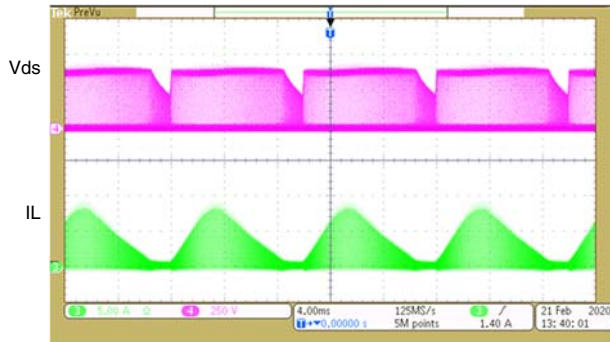
1A/div 250V/div 10ms/div



□ Vds / IL

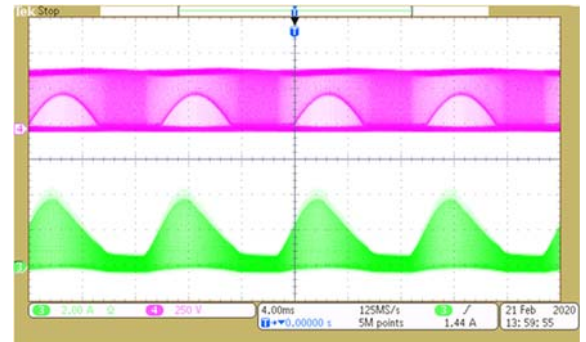
Vin=100Vac, Po=200W

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



Vin=230Vac, Po=200W

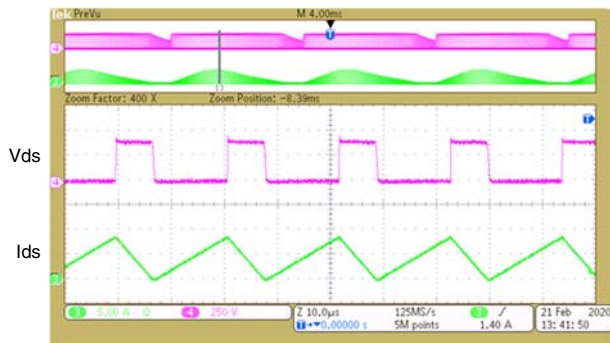
2A/div 250V/div 4ms/div



□ Vds / Ids

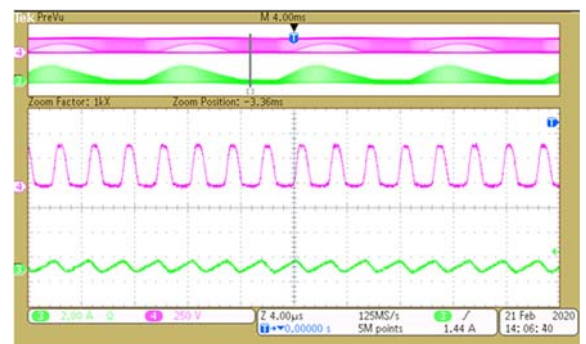
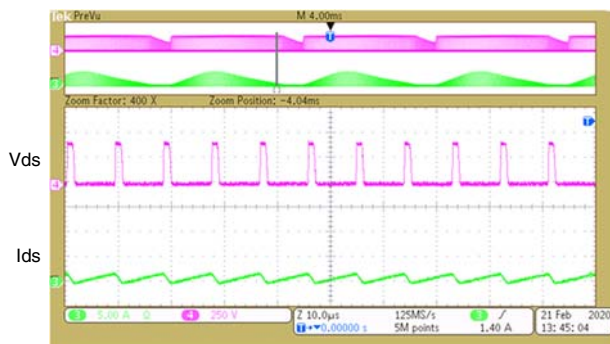
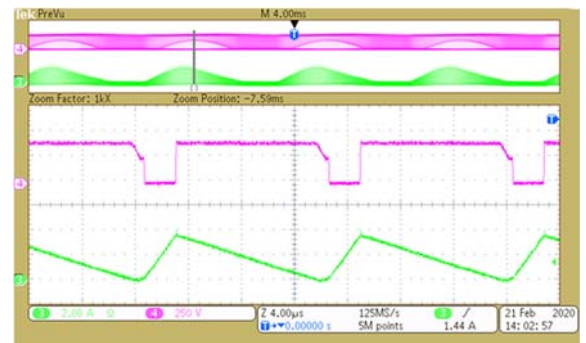
Vin=100Vac, Po=200W

5A/div 250V/div 10μs/div



Vin=230Vac, Po=200W

2A/div 250V/div 4μs/div

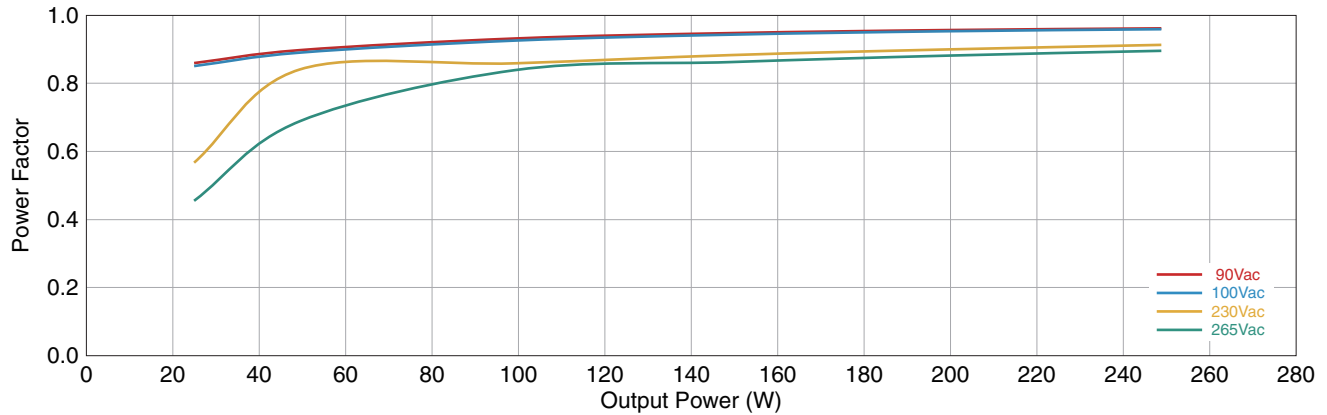


PFC ER系列 **PFC3525ER-181K09B-00**

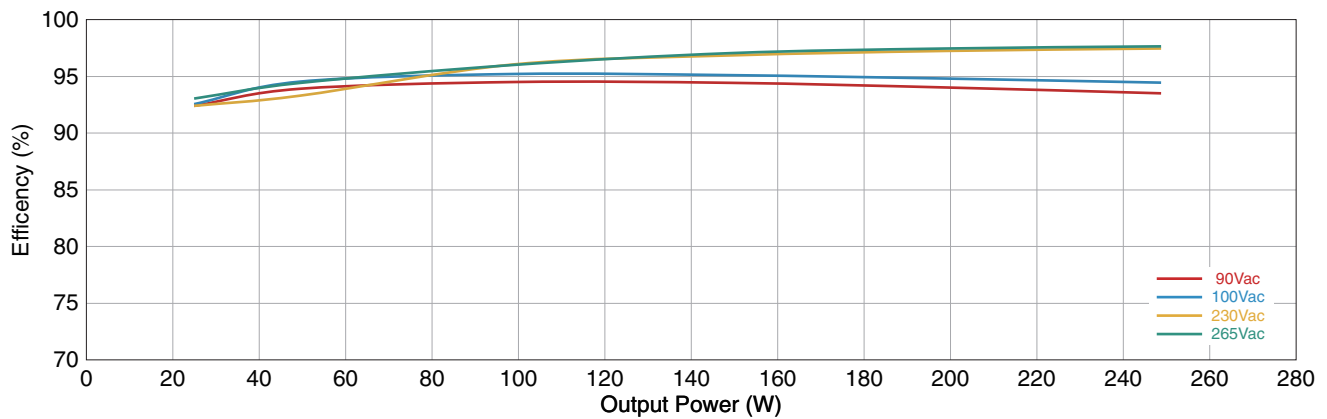
■ 参考动态特性

Vout = 392Vdc

□ Power Factor



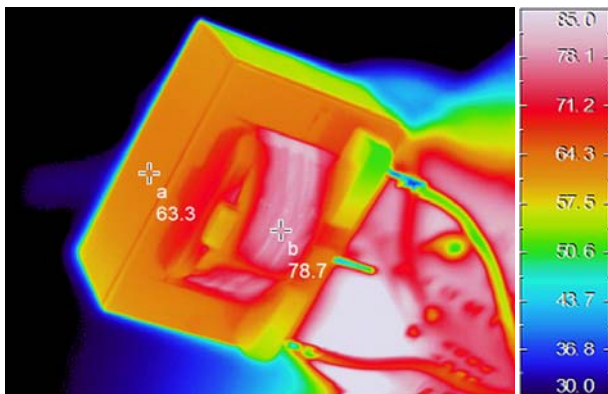
□ Efficiency



■ 参考温度

Vin = 90Vac, Vout = 392Vdc, 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。

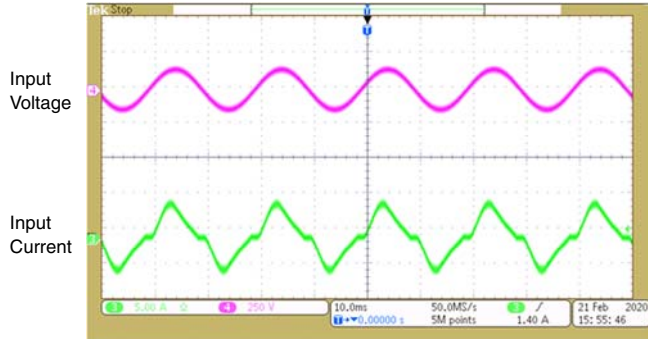
PFC ER系列 **PFC3525ER-181K09B-00**

■ 参考工作波形

□ Input Voltage / Current

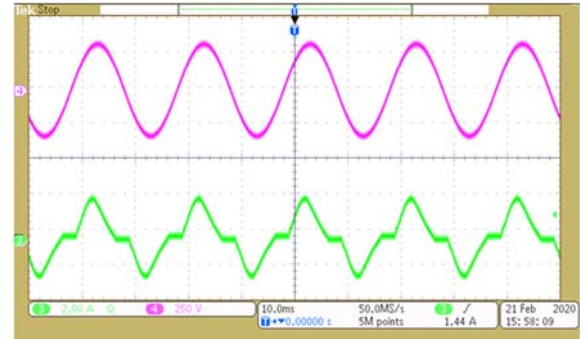
Vin=100Vac, Po=250W

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



Vin=230Vac, Po=250W

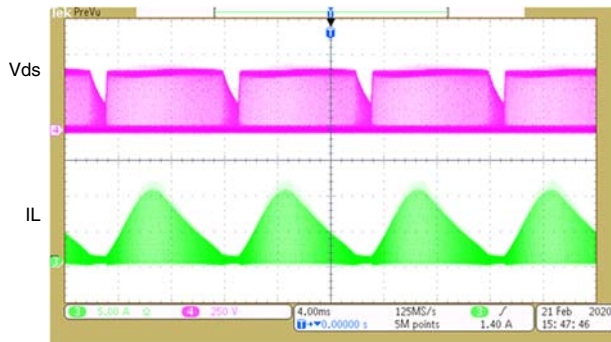
2A/div 250V/div 10ms/div



□ Vds / IL

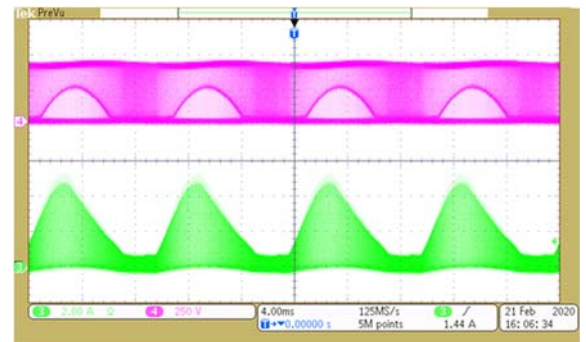
Vin=100Vac, Po=250W

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



Vin=230Vac, Po=250W

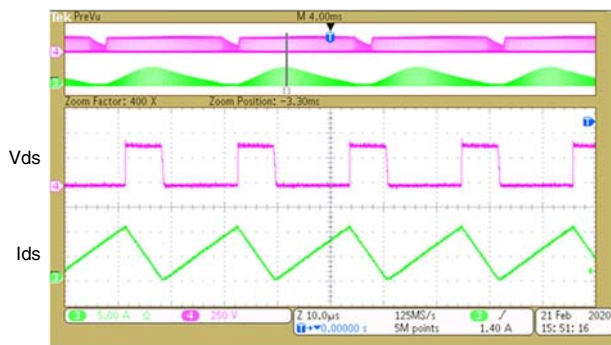
2A/div 250V/div 4ms/div



□ Vds / Ids

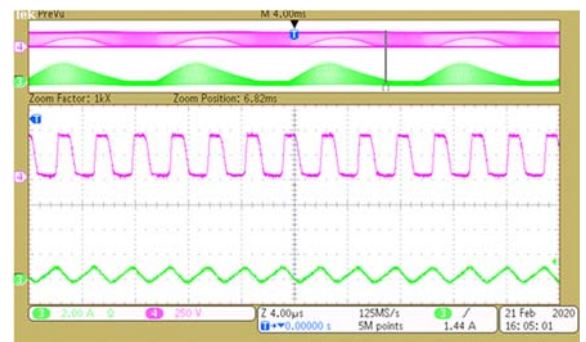
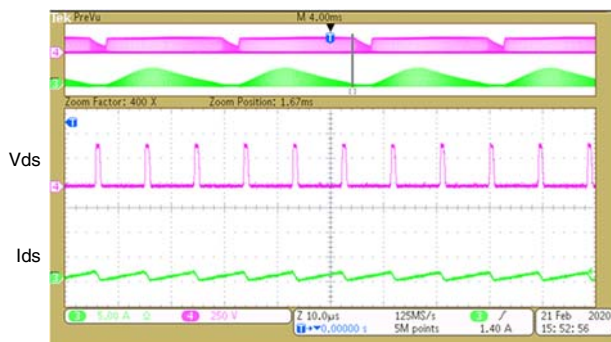
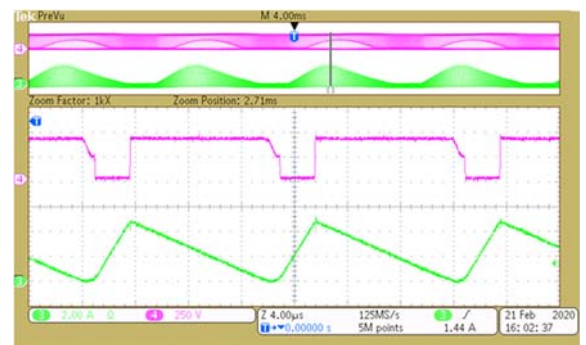
Vin=100Vac, Po=250W

5A/div 250V/div 10μs/div



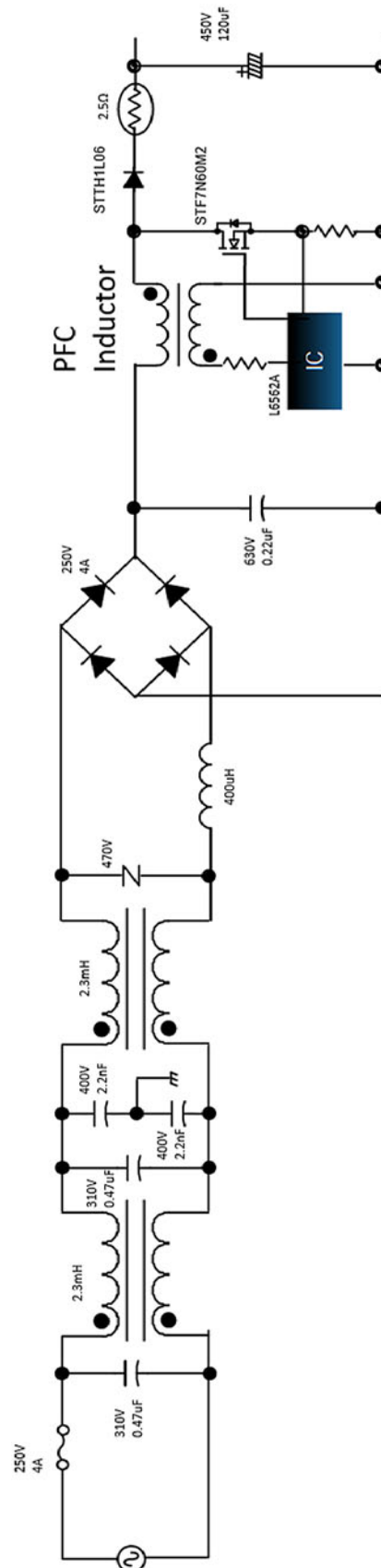
Vin=230Vac, Po=250W

2A/div 250V/div 4μs/div



PFC ER系列 **PFC 输出功率 : 75~100W**

■ 参考电路图



PFC ER系列 **PFC 输出功率 : 125~250W**

■ 参考电路图

