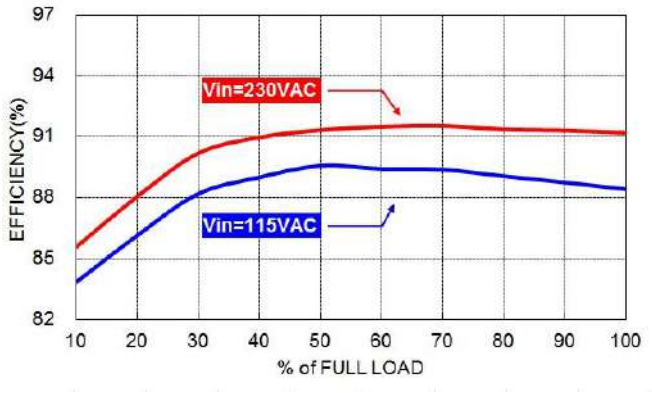
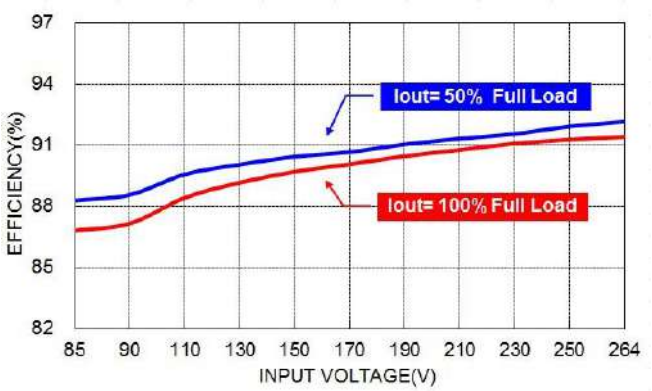
Characteristic Curves

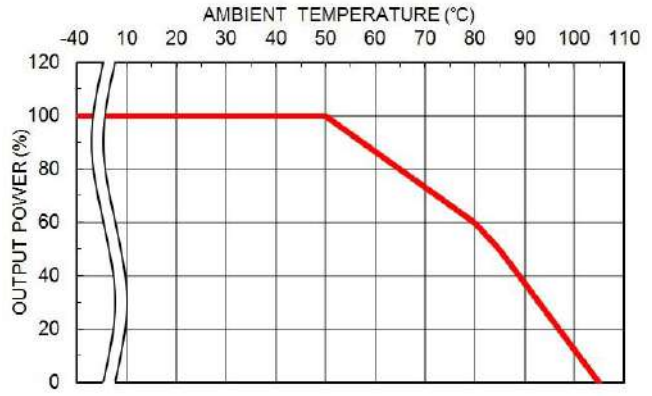
All test conditions are at 25℃.The figures are identical for TBF500US12



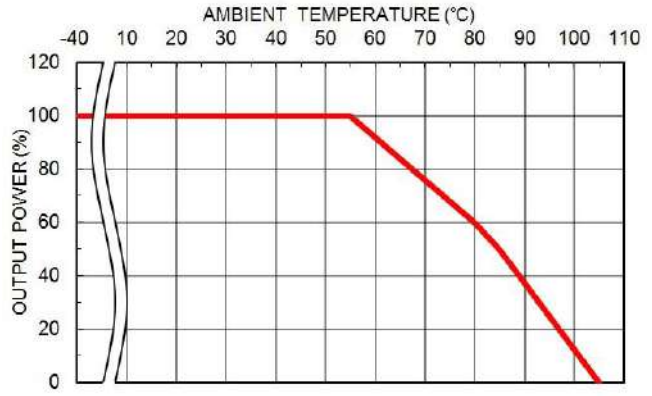
Efficiency versus Output Load



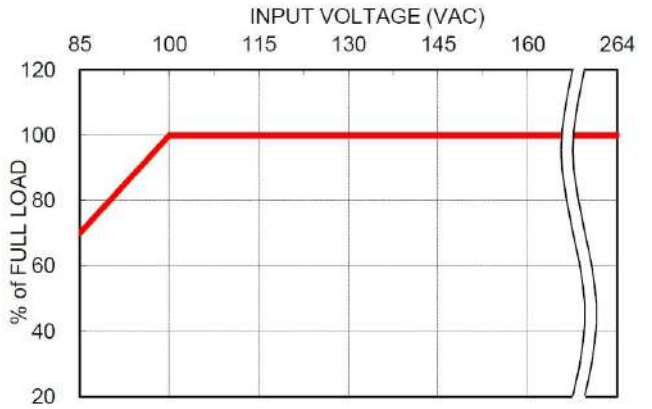
Efficiency versus Input Voltage



Derating Curve vs. Ambient Temperature
Vin=115VAC and conduction cooling tested by 482.6x222.2x2mm plate



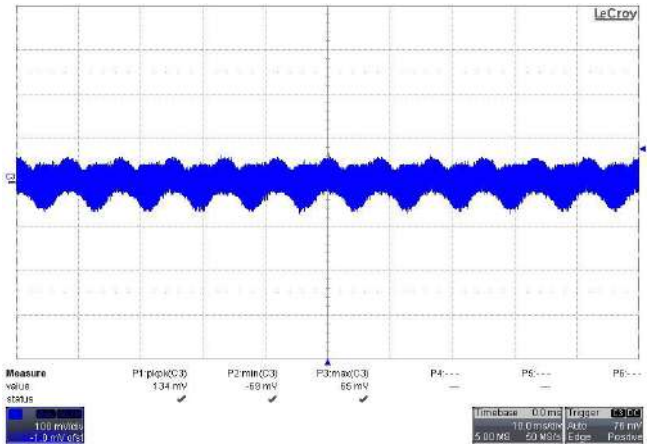
Derating Curve vs. Ambient Temperature
Vin=230VAC and conduction cooling tested by 482.6x222.2x2mm plate



Derating Curve vs. Input Voltage

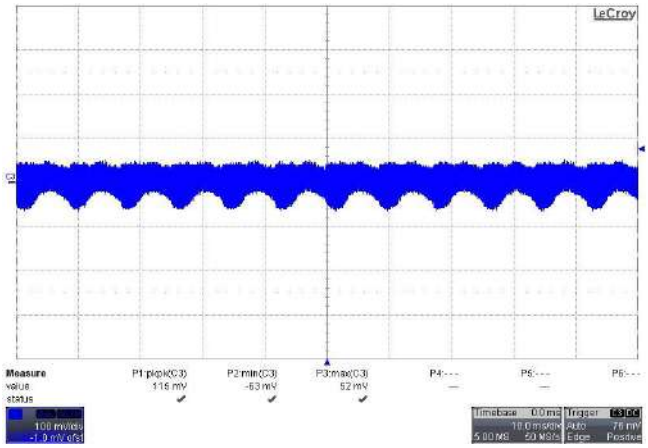
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US12



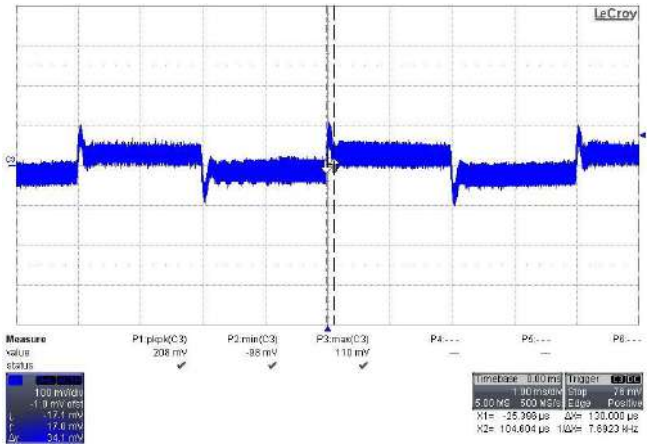
C3: 100mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=115VAC; Full Load



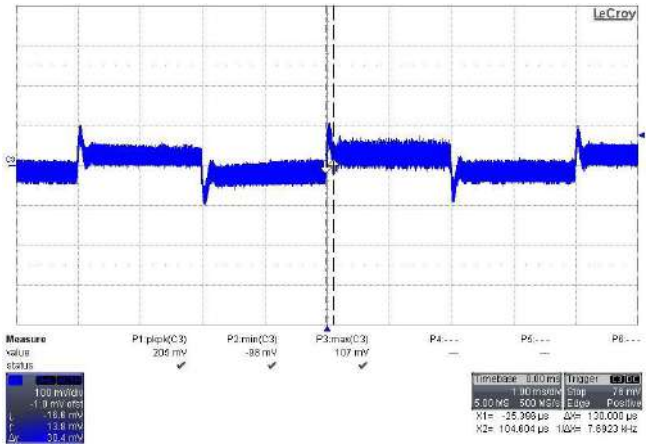
C3: 100mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=230VAC; Full Load



C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=115VAC

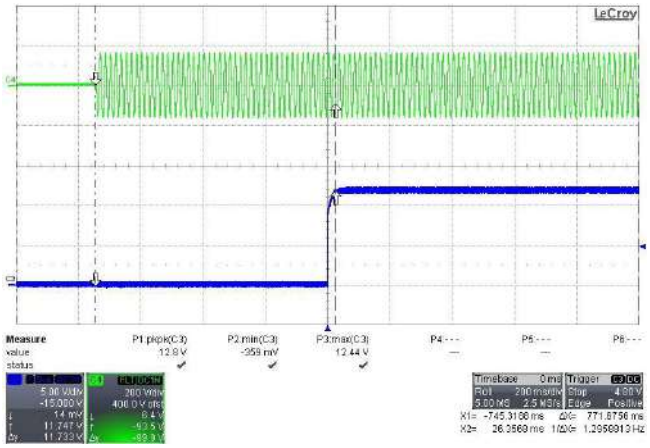


C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=230VAC

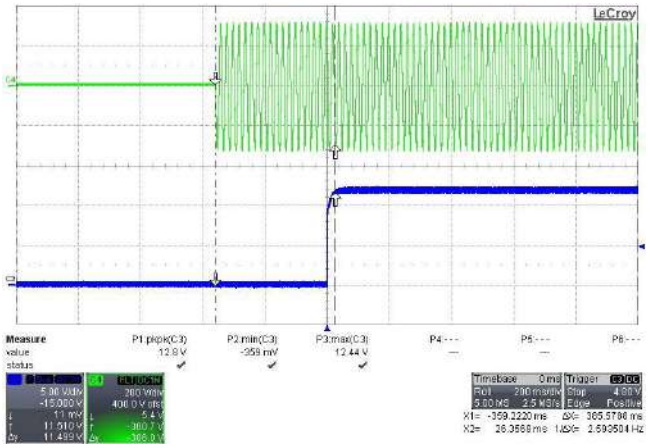
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US12



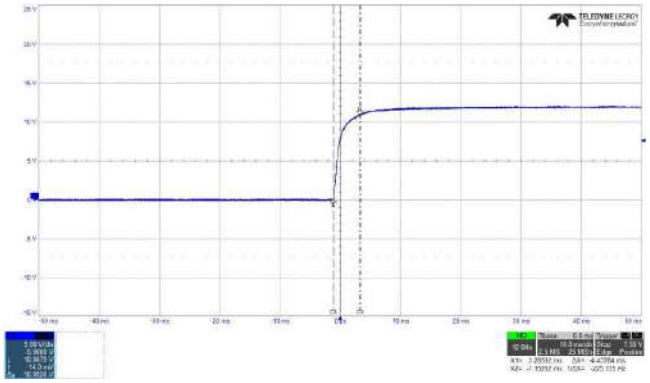
C3: 5V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=115VAC; Full Load



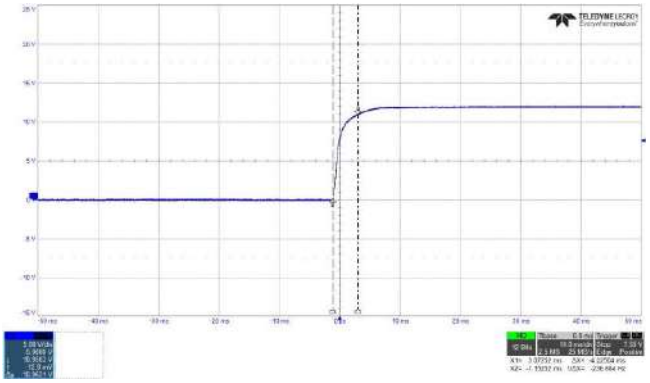
C3: 5V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=230VAC; Full Load



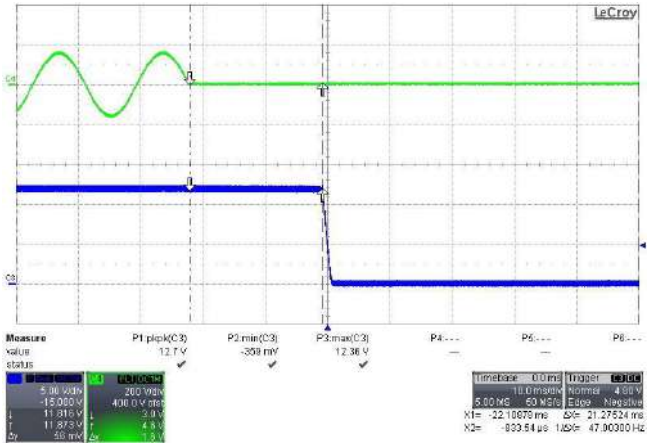
C3: 5V / Div X: 10mS / Div

Typical Output Rise Characteristic
Vin=115VAC; Full Load



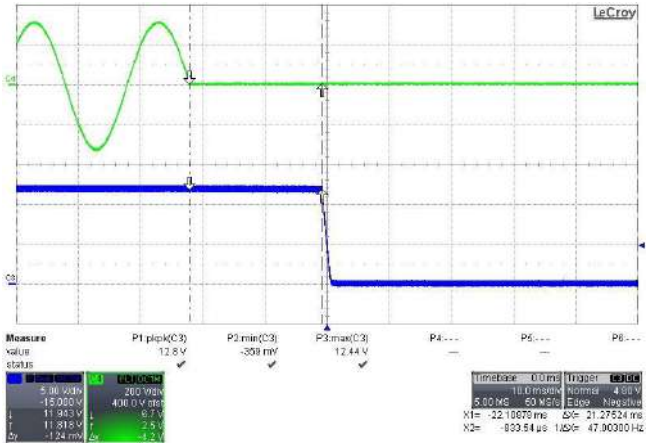
C3: 5V / Div X: 10mS / Div

Typical Output Rise Characteristic
Vin=230VAC; Full Load



C3: 5V / Div C4: 200V / Div X: 10mS / Div

Typical Hold-Up Characteristic
Vin=115VAC; Full Load; Cbus:540uF

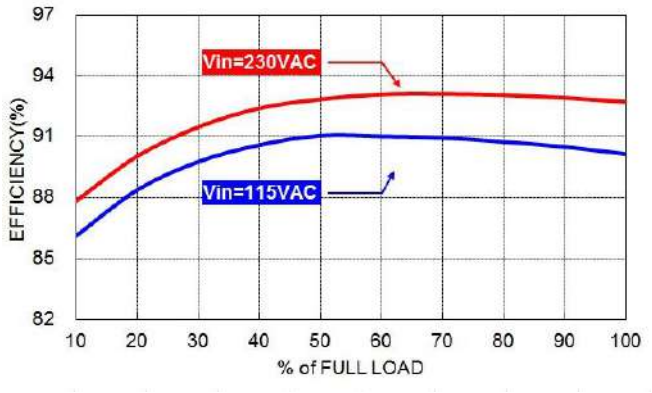


C3: 5V / Div C4: 200V / Div X: 10mS / Div

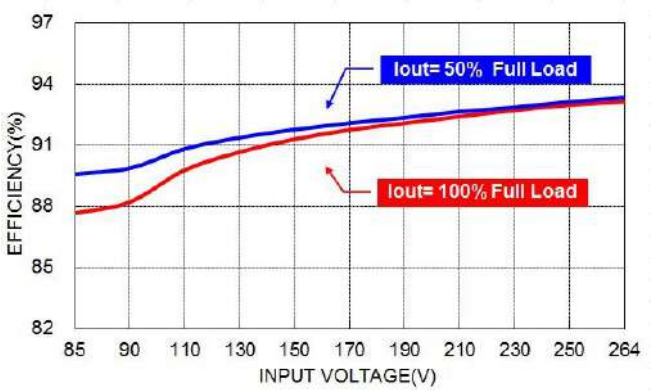
Typical Hold-Up Characteristic
Vin=230VAC; Full Load; Cbus:540uF

Characteristic Curves (Continued)

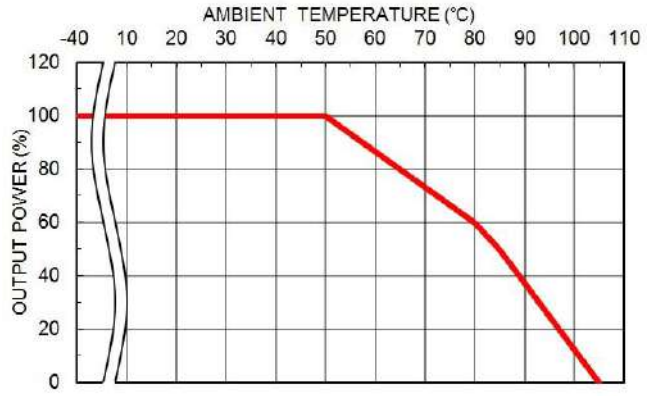
All test conditions are at 25℃.The figures are identical for TBF500US24



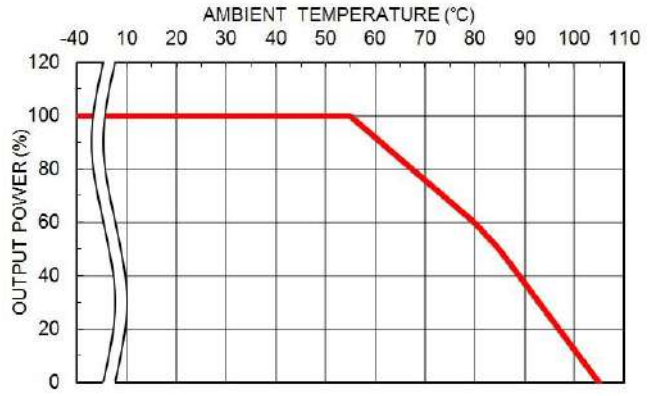
Efficiency versus Output Load



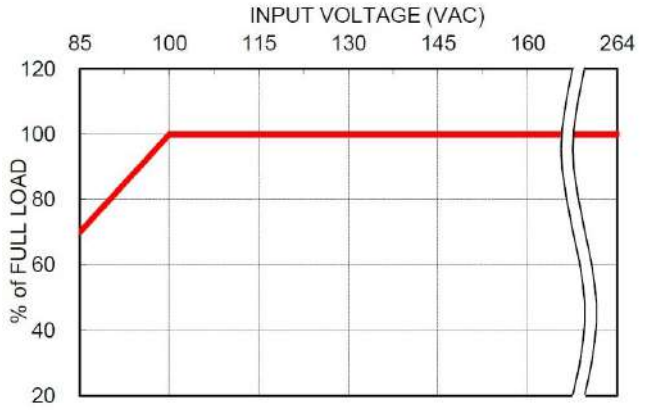
Efficiency versus Input Voltage



Derating Curve vs. Ambient Temperature
Vin=115VAC and conduction cooling tested by 482.6x222.2x2mm plate



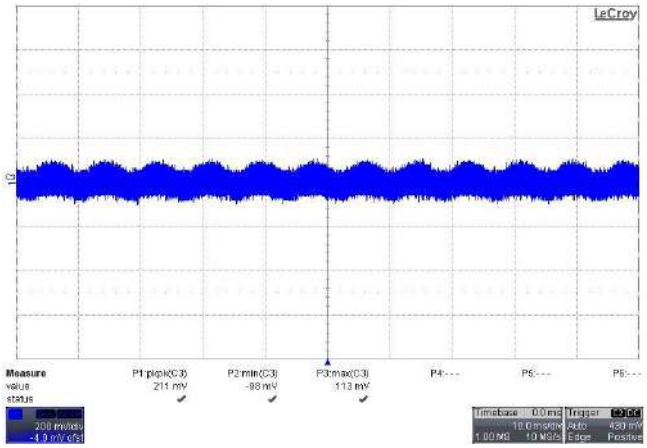
Derating Curve vs. Ambient Temperature
Vin=230VAC and conduction cooling tested by 482.6x222.2x2mm plate



Derating Curve vs. Input Voltage

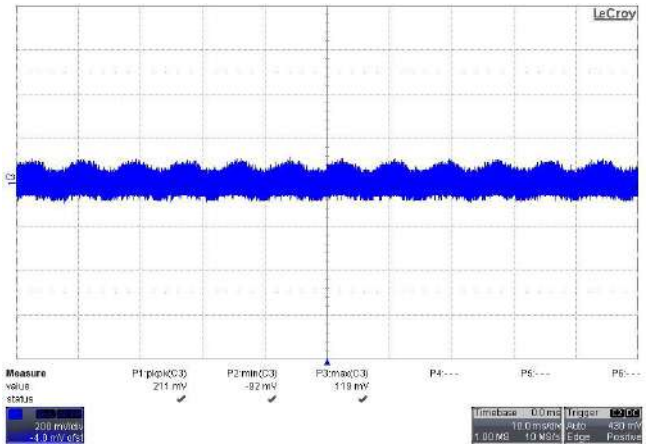
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US24



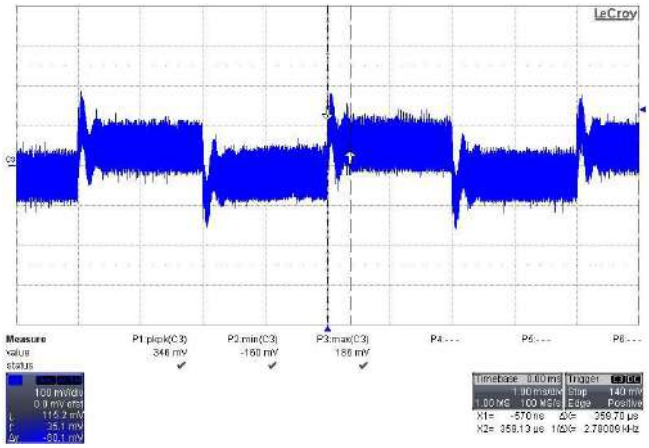
C3: 200mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=115VAC; Full Load



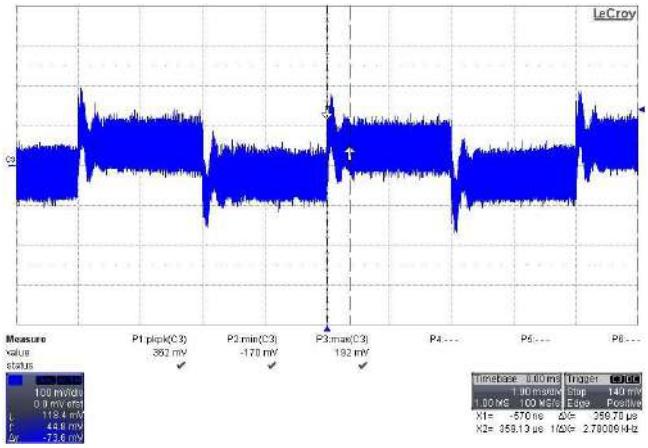
C3: 200mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=230VAC; Full Load



C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=115VAC

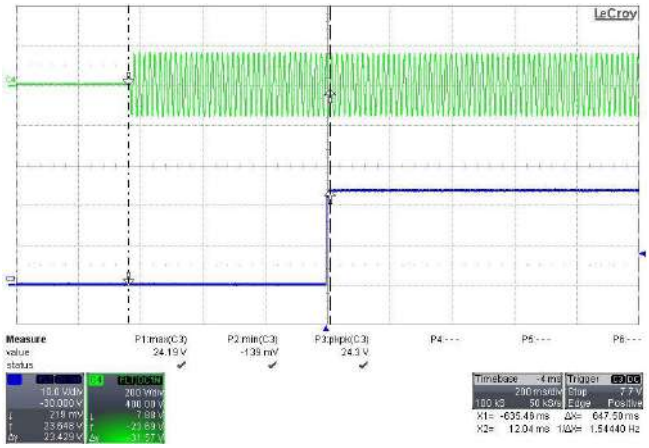


C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=230VAC

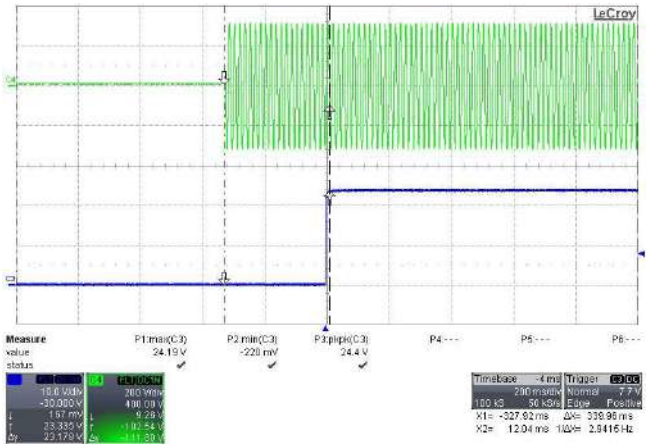
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US24



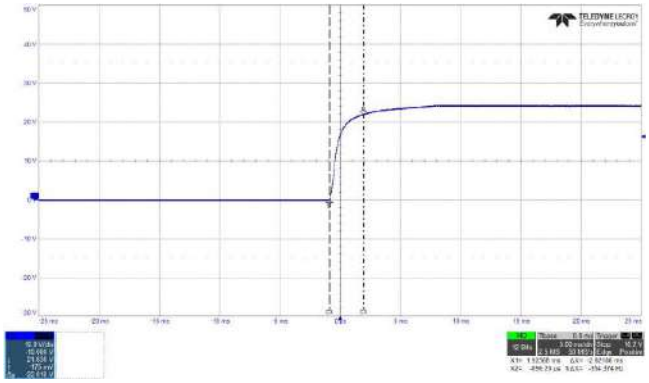
C3: 10V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=115VAC; Full Load



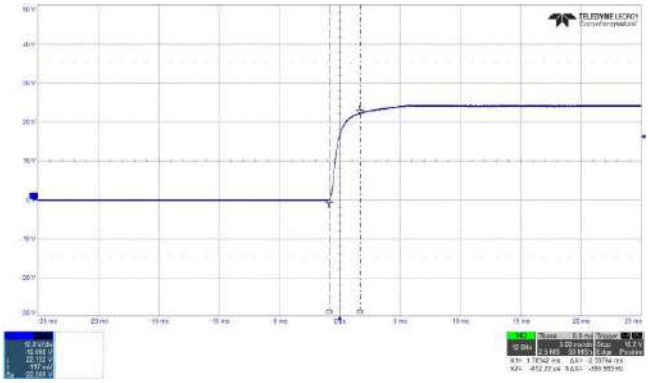
C3: 10V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=230VAC; Full Load



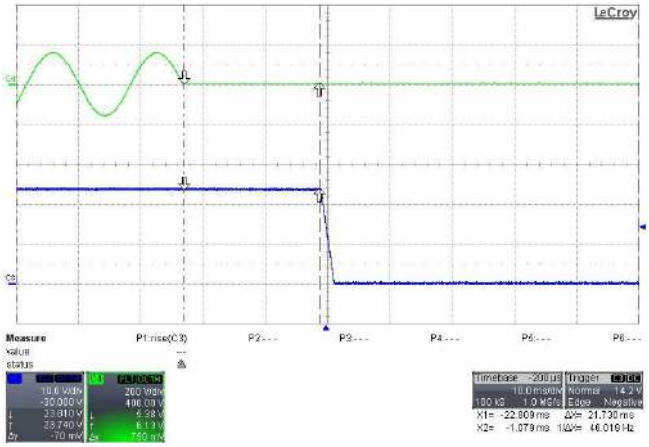
C3: 10V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=115VAC; Full Load



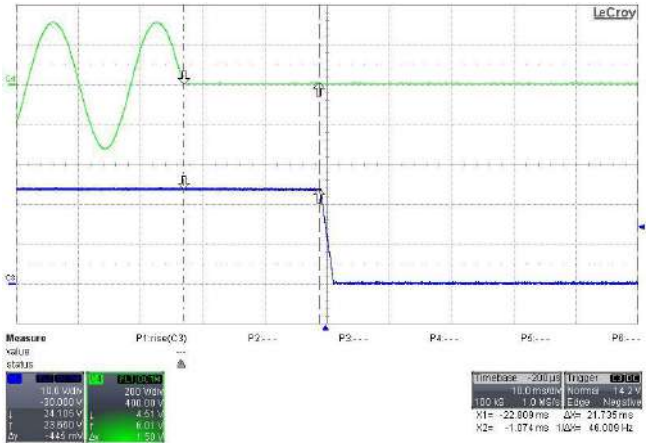
C3: 10V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=230VAC; Full Load



C3: 10V / Div C4: 200V / Div X: 10mS / Div

Typical Hold-Up Characteristic
Vin=115VAC; Full Load; Cbus:540uF

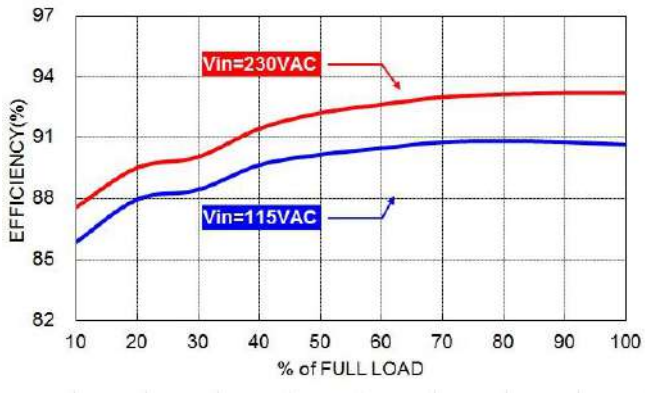


C3: 10V / Div C4: 200V / Div X: 10mS / Div

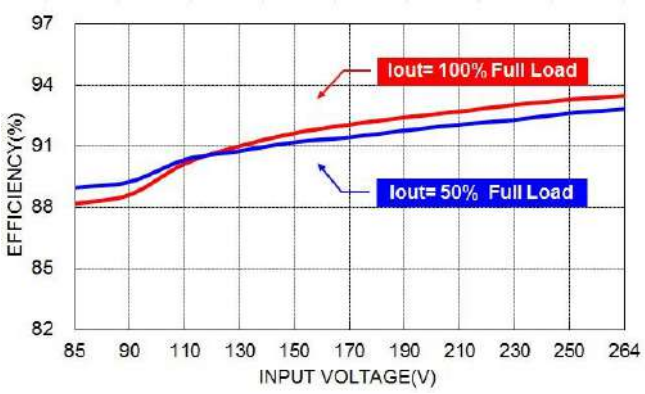
Typical Hold-Up Characteristic
Vin=230VAC; Full Load; Cbus:540uF

Characteristic Curves (Continued)

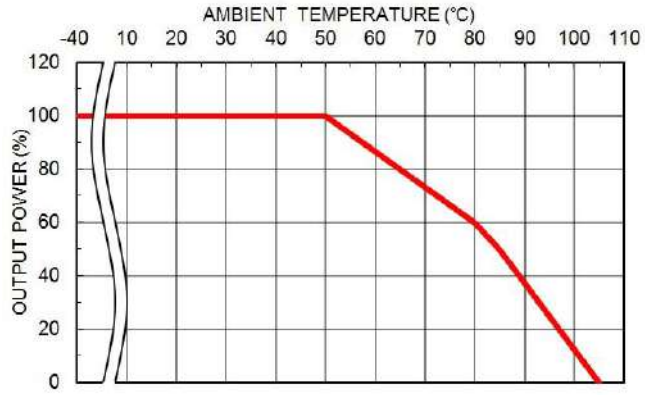
All test conditions are at 25℃.The figures are identical for TBF500US28



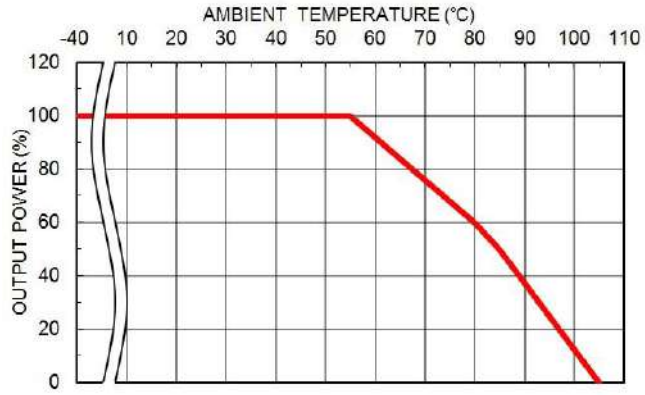
Efficiency versus Output Load



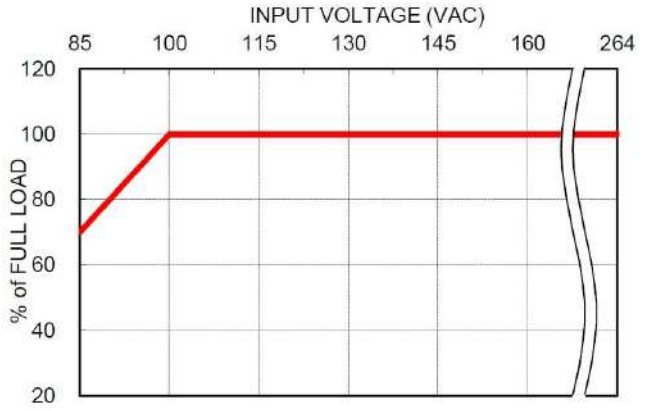
Efficiency versus Input Voltage



Derating Curve vs. Ambient Temperature
Vin=115VAC and conduction cooling tested by 482.6x222.2x2mm plate



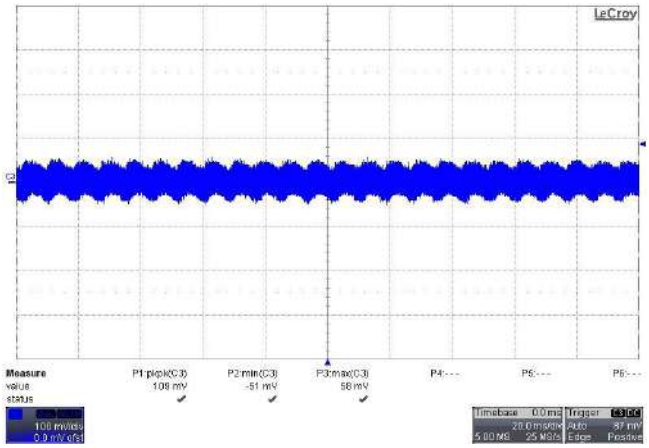
Derating Curve vs. Ambient Temperature
Vin=230VAC and conduction cooling tested by 482.6x222.2x2mm plate



Derating Curve vs. Input Voltage

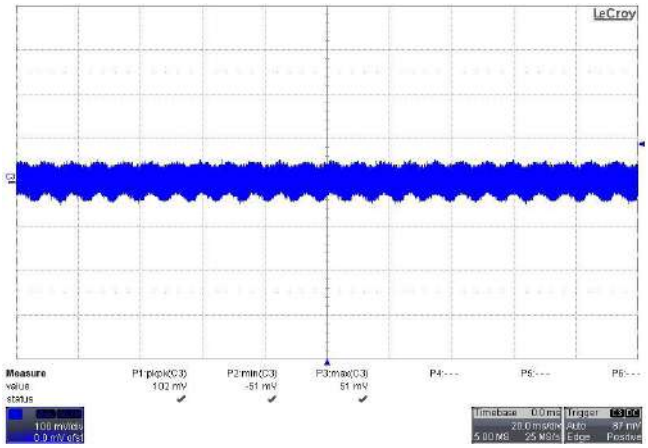
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US28



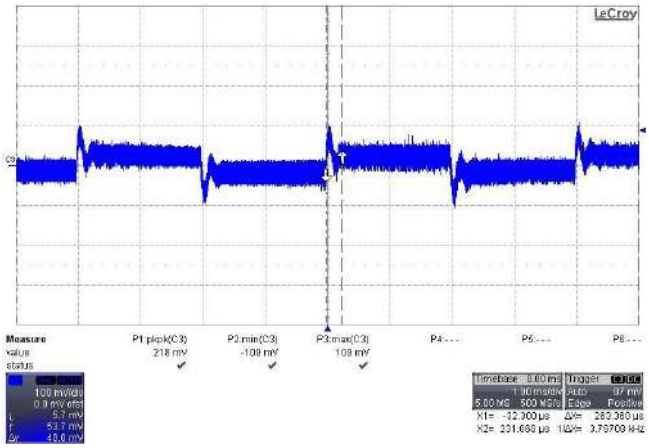
C3: 100mV / Div X: 20mS / Div

Typical Output Ripple and Noise.
Vin=115VAC; Full Load



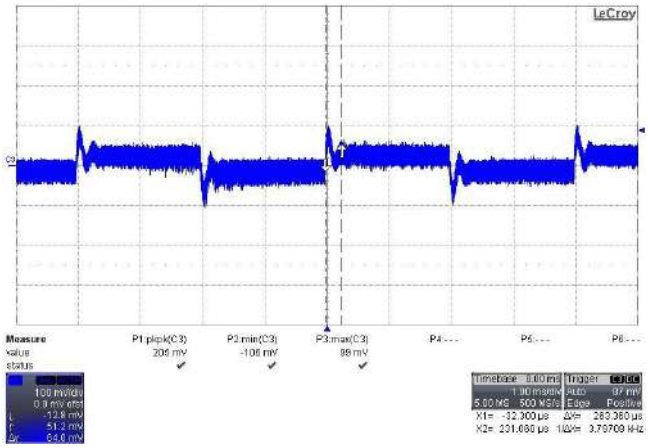
C3: 100mV / Div X: 20mS / Div

Typical Output Ripple and Noise.
Vin=230VAC; Full Load



C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=115VAC

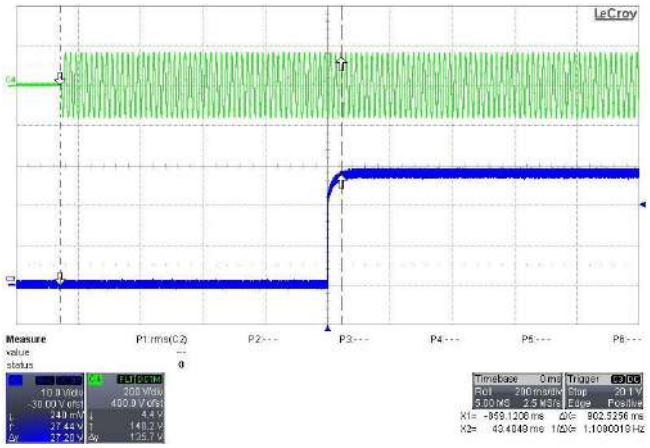


C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=230VAC

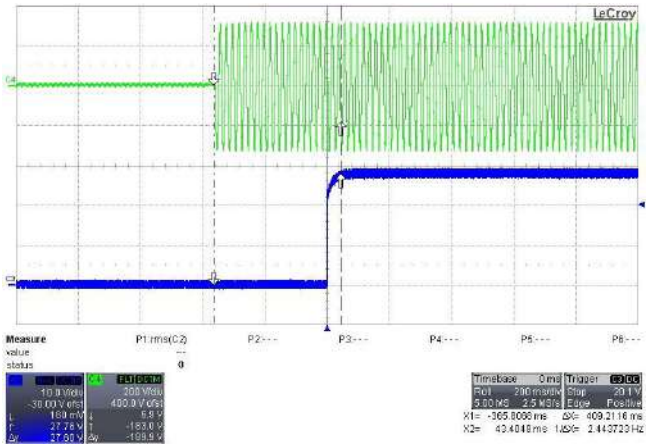
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US28



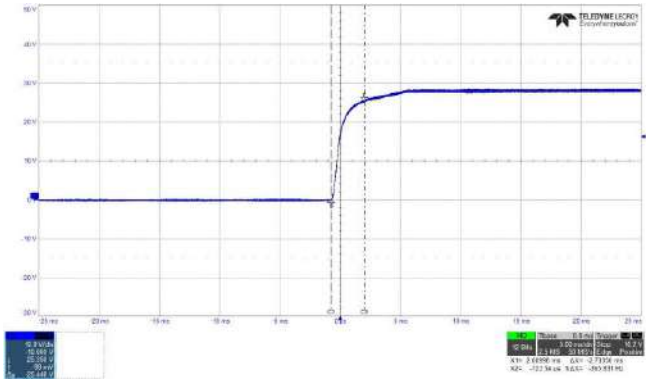
C3: 10V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=115VAC; Full Load



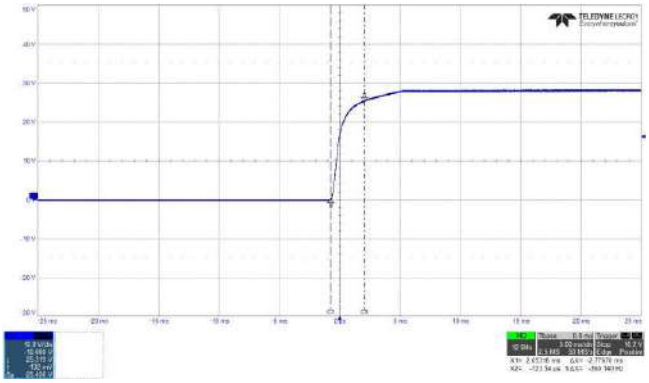
C3: 10V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=230VAC; Full Load



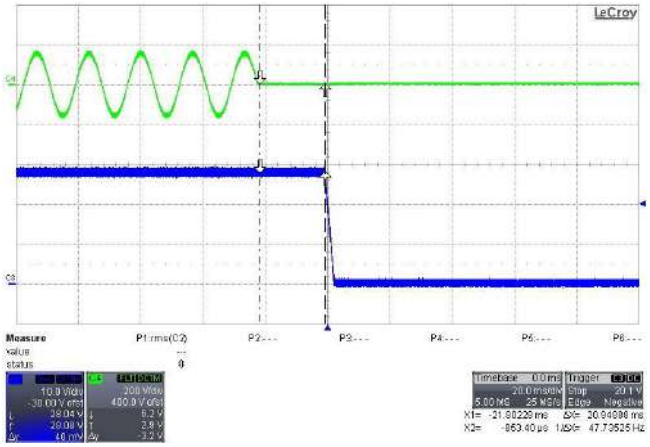
C3: 10V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=115VAC; Full Load



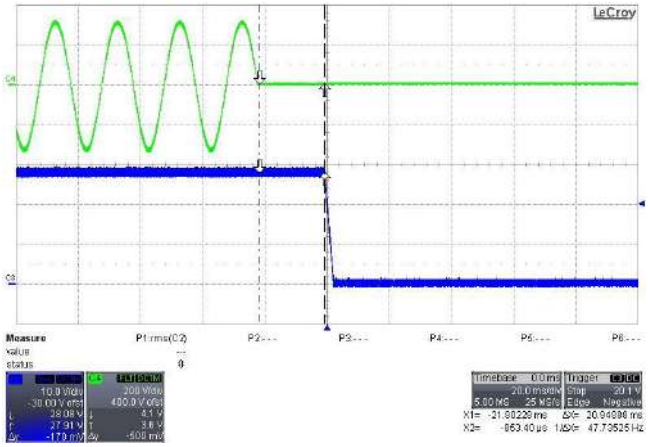
C3: 10V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=230VAC; Full Load



C3: 10V / Div C4: 200V / Div X: 20mS / Div

Typical Hold-Up Characteristic
Vin=115VAC; Full Load; Cbus:540uF

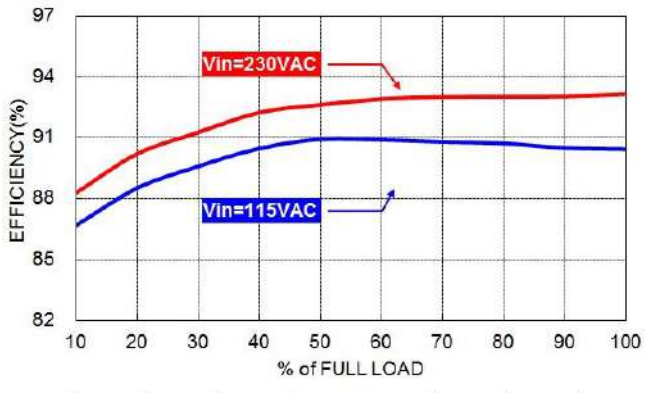


C3: 10V / Div C4: 200V / Div X: 20mS / Div

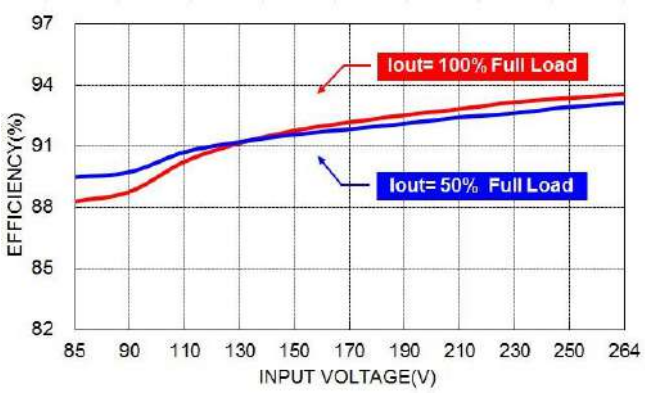
Typical Hold-Up Characteristic
Vin=230VAC; Full Load; Cbus:540uF

Characteristic Curves (Continued)

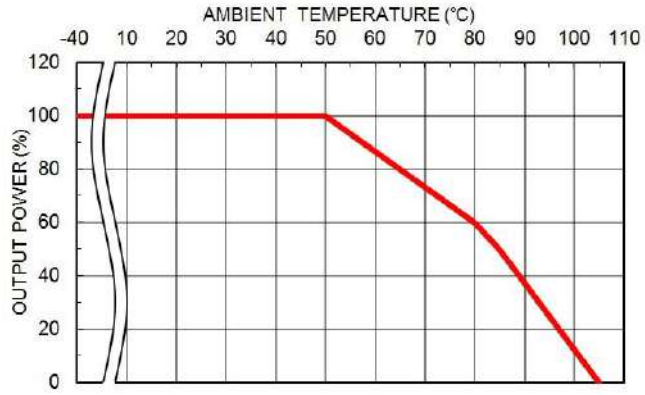
All test conditions are at 25℃.The figures are identical for TBF500US48



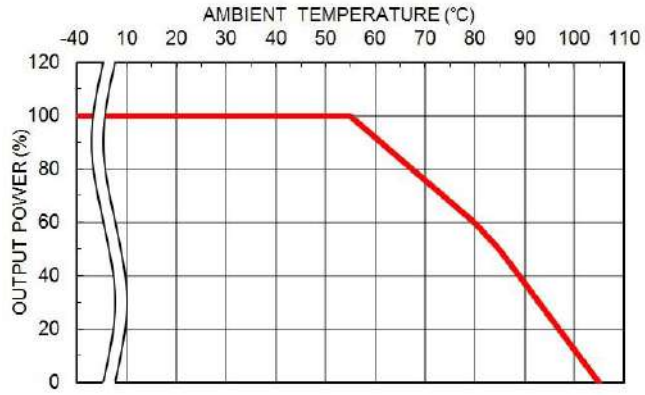
Efficiency versus Output Load



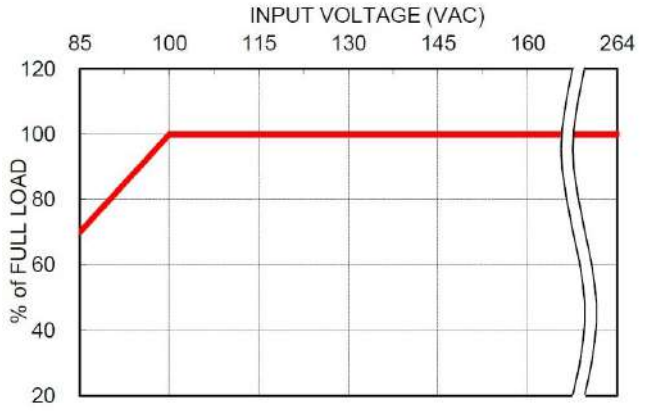
Efficiency versus Input Voltage



Derating Curve vs. Ambient Temperature
Vin=115VAC and conduction cooling tested by 482.6x222.2x2mm plate



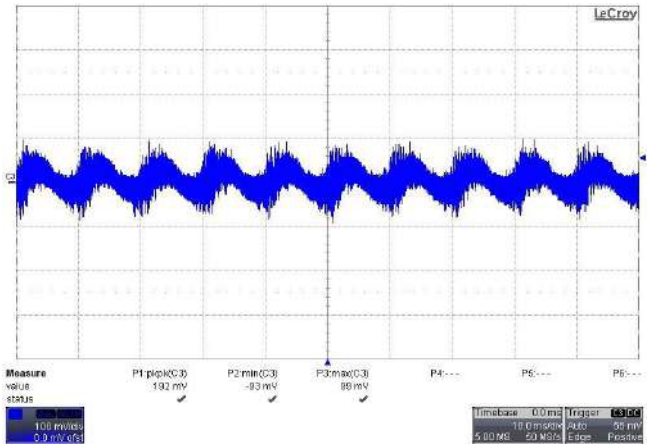
Derating Curve vs. Ambient Temperature
Vin=230VAC and conduction cooling tested by 482.6x222.2x2mm plate



Derating Curve vs. Input Voltage

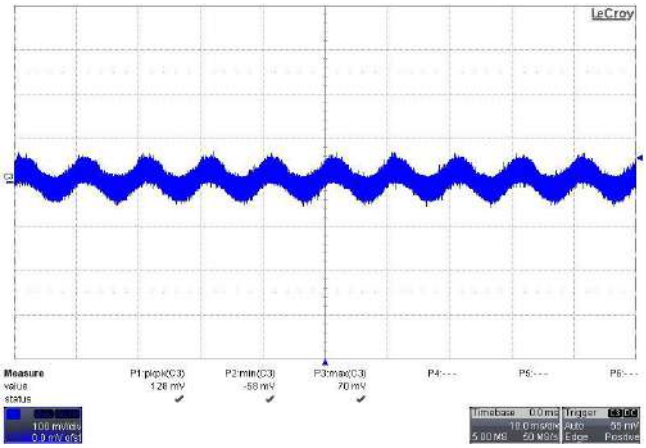
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US48



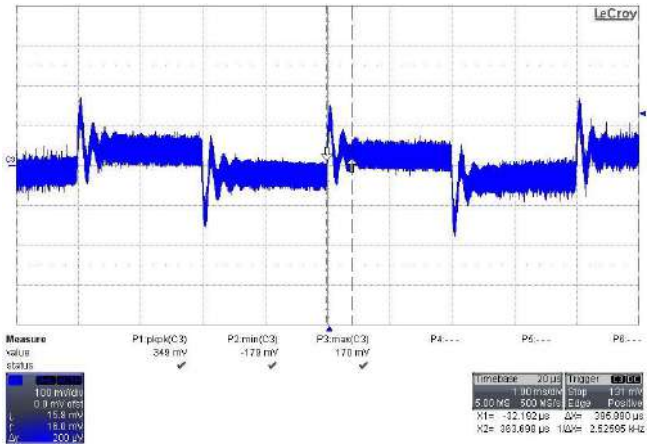
C3: 100mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=115VAC; Full Load



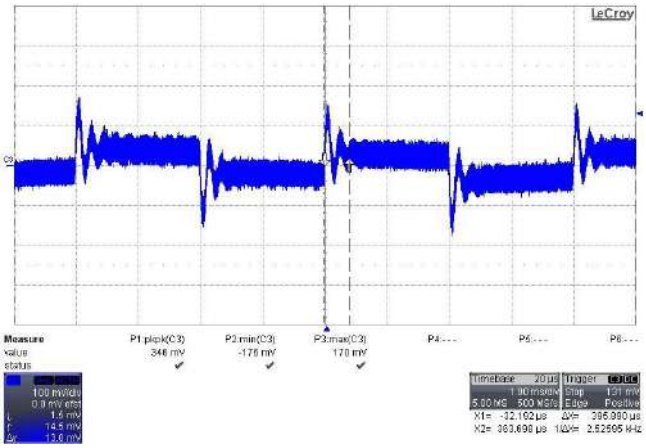
C3: 100mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=230VAC; Full Load



C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=115VAC

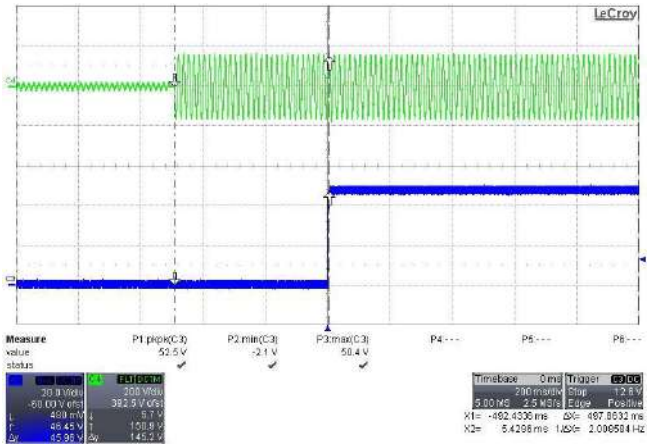


C3: 100mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=230VAC

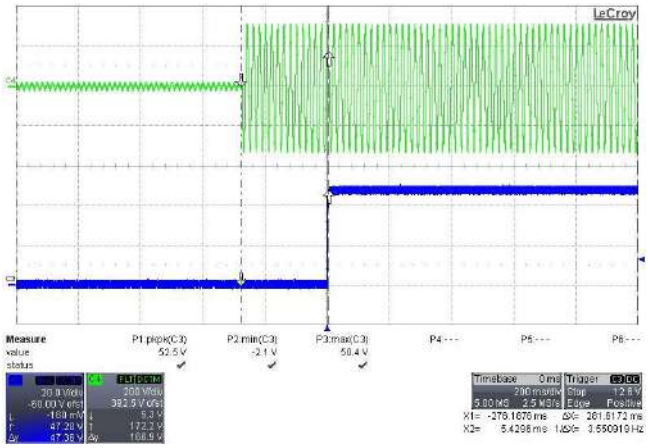
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US48



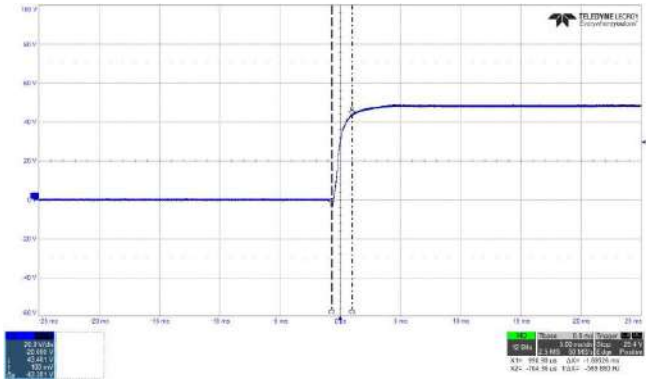
C3: 20V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=115VAC; Full Load



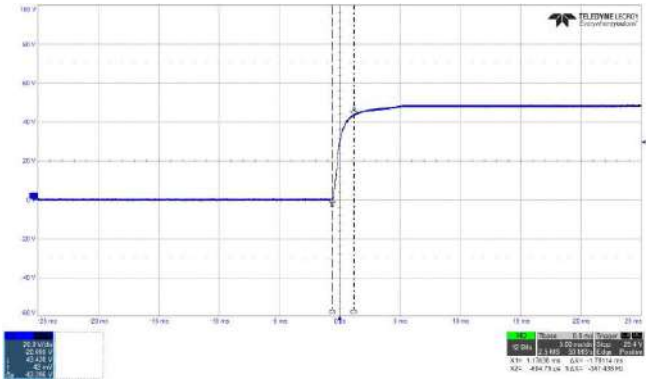
C3: 20V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=230VAC; Full Load



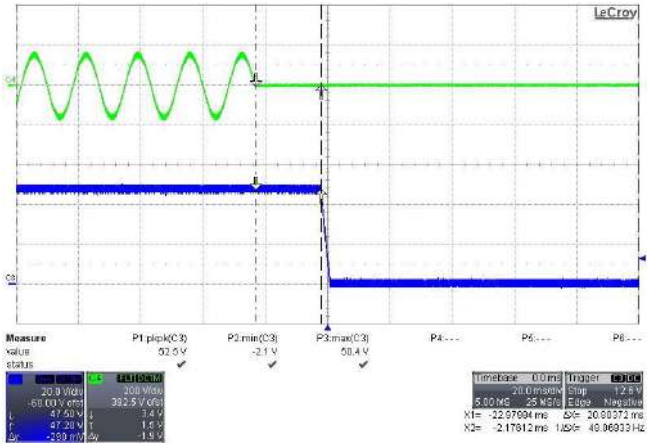
C3: 20V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=115VAC; Full Load



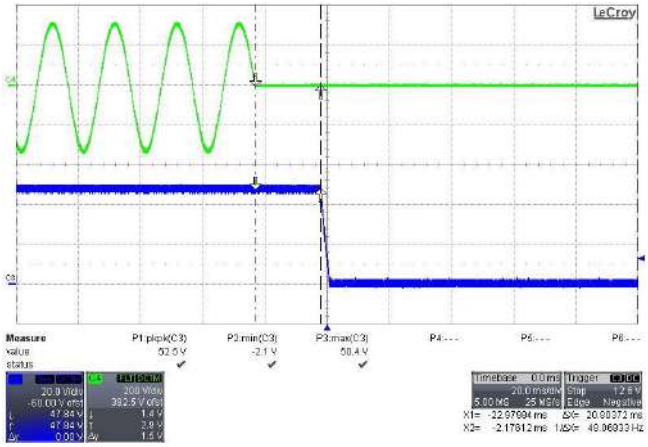
C3: 20V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=230VAC; Full Load



C3: 20V / Div C4: 200V / Div X: 20mS / Div

Typical Hold-Up Characteristic
Vin=115VAC; Full Load; Cbus:540uF

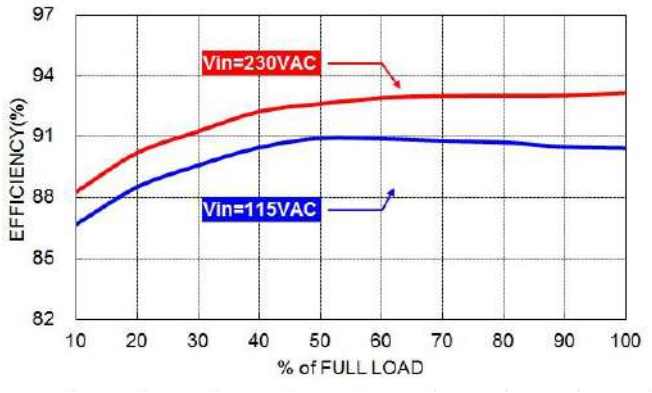


C3: 20V / Div C4: 200V / Div X: 20mS / Div

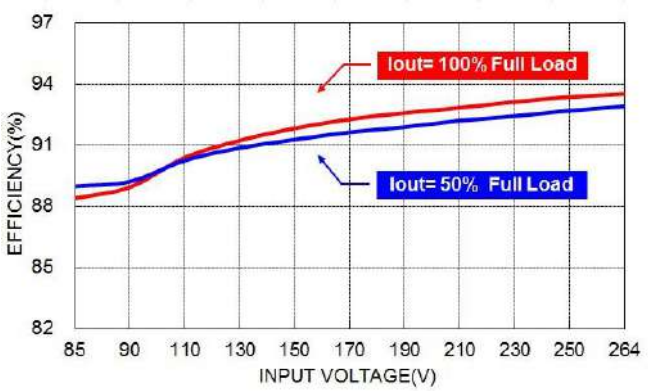
Typical Hold-Up Characteristic
Vin=230VAC; Full Load; Cbus:540uF

Characteristic Curves (Continued)

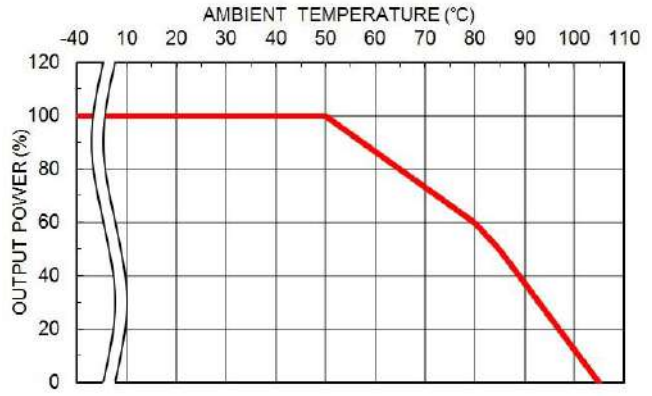
All test conditions are at 25℃.The figures are identical for TBF500US54



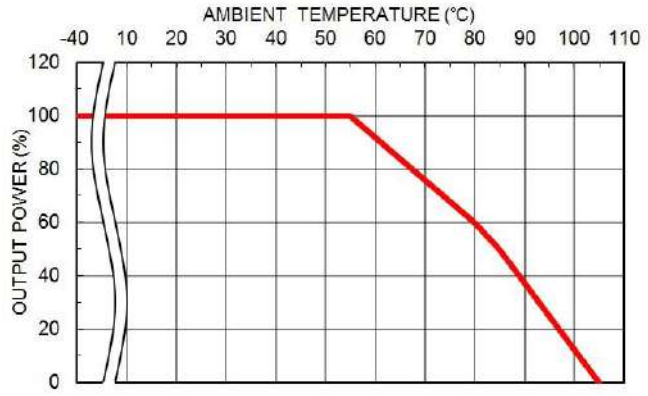
Efficiency versus Output Load



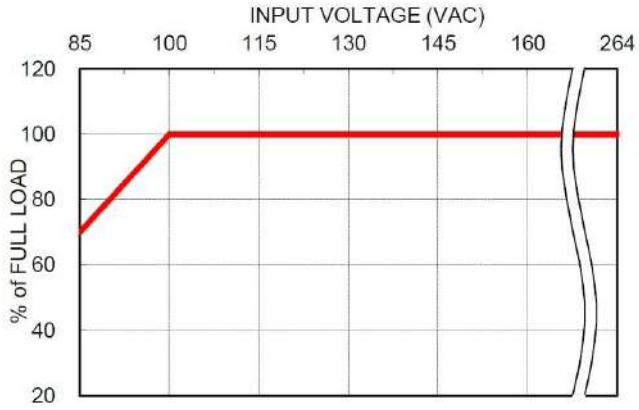
Efficiency versus Input Voltage



Derating Curve vs. Ambient Temperature
Vin=115VAC and conduction cooling tested by 482.6x222.2x2mm plate



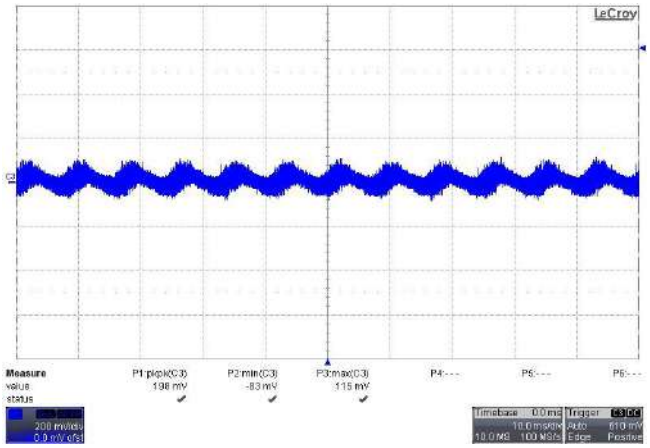
Derating Curve vs. Ambient Temperature
Vin=230VAC and conduction cooling tested by 482.6x222.2x2mm plate



Derating Curve vs. Input Voltage

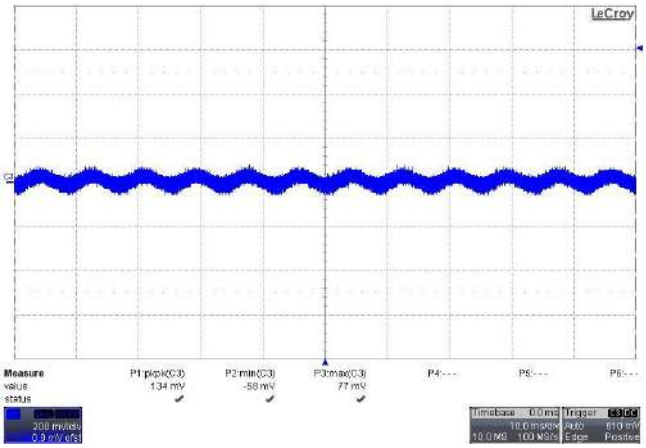
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US54



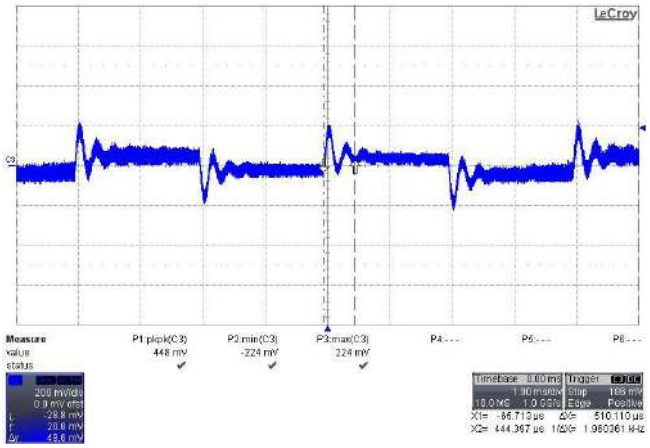
C3: 200mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=115VAC; Full Load



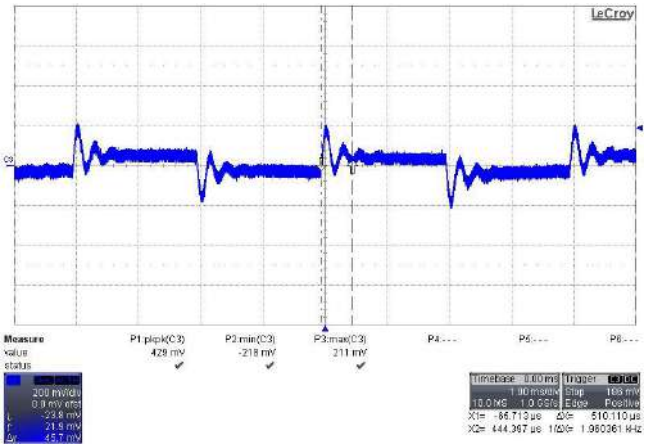
C3: 200mV / Div X: 10mS / Div

Typical Output Ripple and Noise.
Vin=230VAC; Full Load



C3: 200mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=115VAC

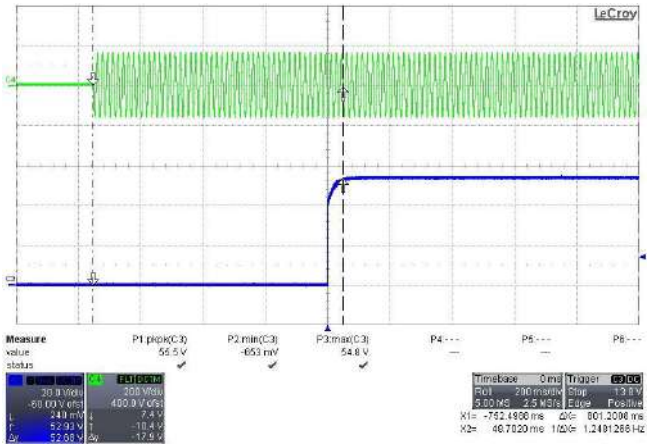


C3: 200mV / Div X: 1mS / Div

Transient Response to Dynamic Load Change from
50% to 75% to 50% of Full Load; Vin=230VAC

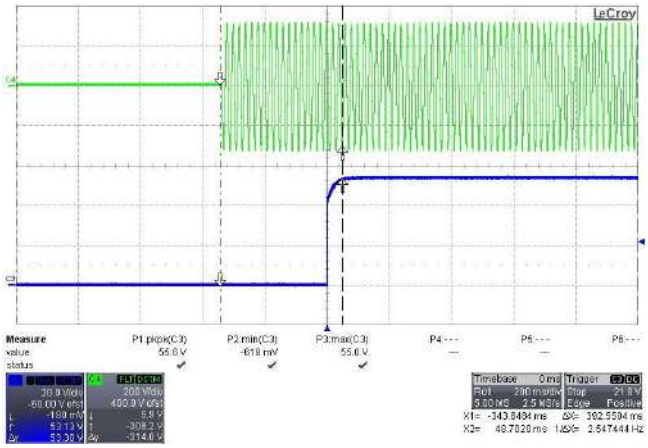
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for TBF500US54



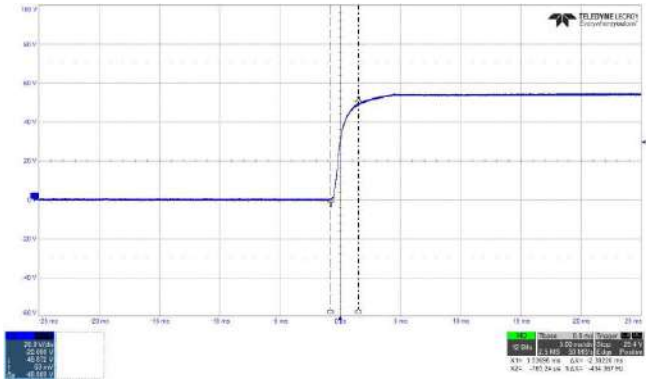
C3: 20V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=115VAC; Full Load



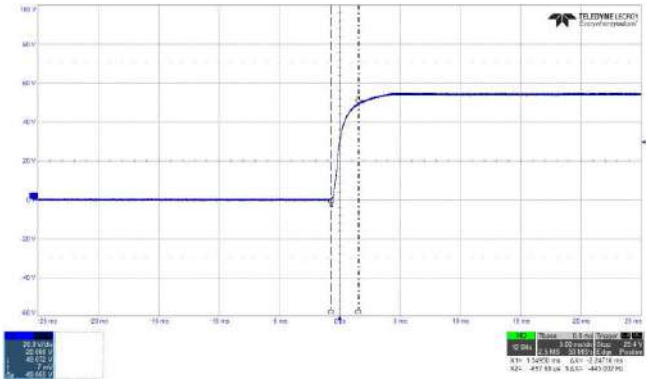
C3: 20V/ Div C4: 200V/ Div X: 200mS / Div

Typical Input Start-Up Characteristic
Vin=230VAC; Full Load



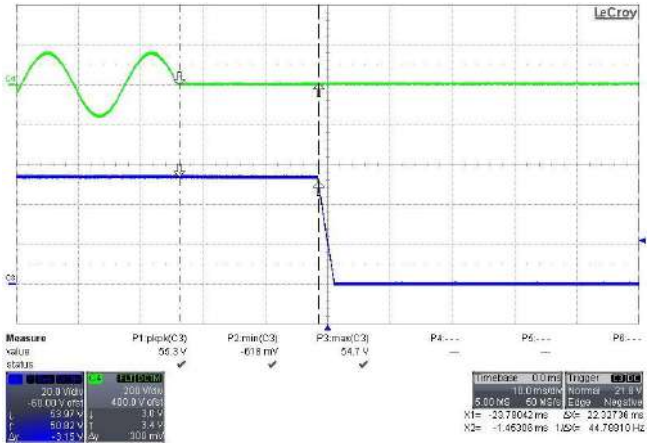
C3: 20V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=115VAC; Full Load



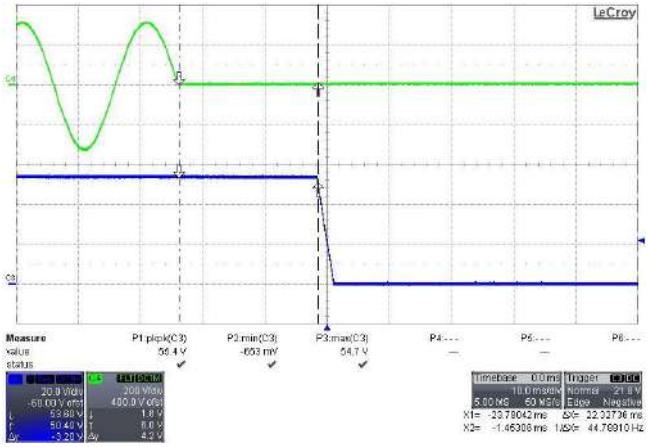
C3: 20V / Div X: 5mS / Div

Typical Output Rise Characteristic
Vin=230VAC; Full Load



C3: 20V / Div C4: 200V / Div X: 10mS / Div

Typical Hold-Up Characteristic
Vin=115VAC; Full Load; Cbus:540uF



C3: 20V / Div C4: 200V / Div X: 10mS / Div

Typical Hold-Up Characteristic
Vin=230VAC; Full Load; Cbus:540uF