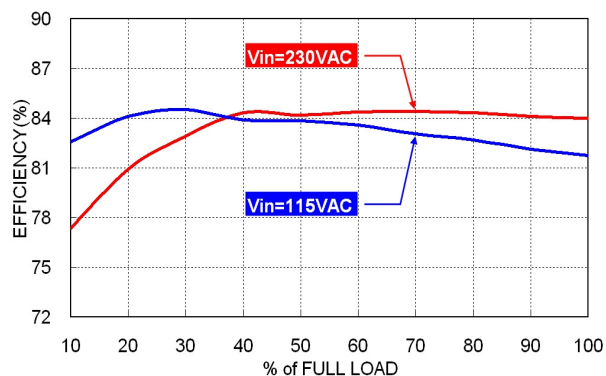


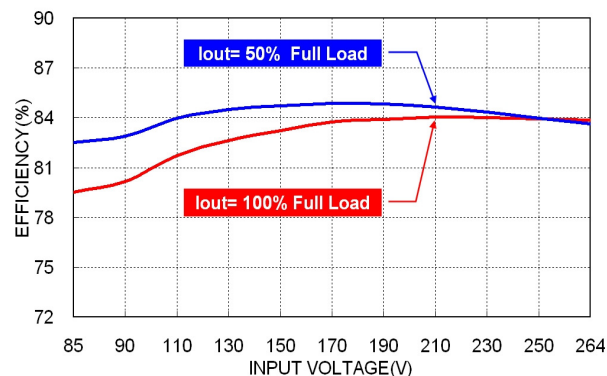
## Characteristic Curves

### TPP 30-103

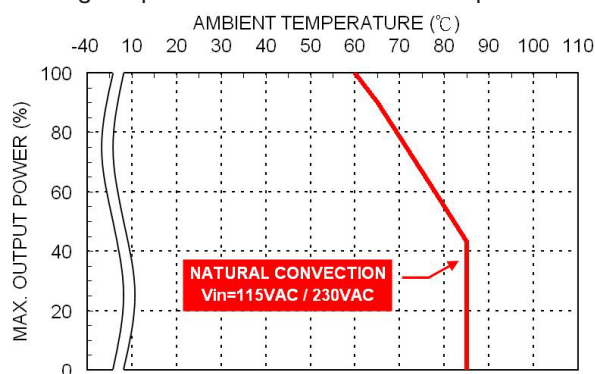
Efficiency versus Output Load



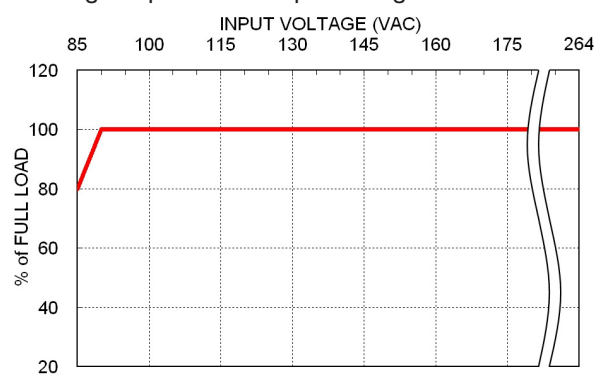
Efficiency versus Input Voltage



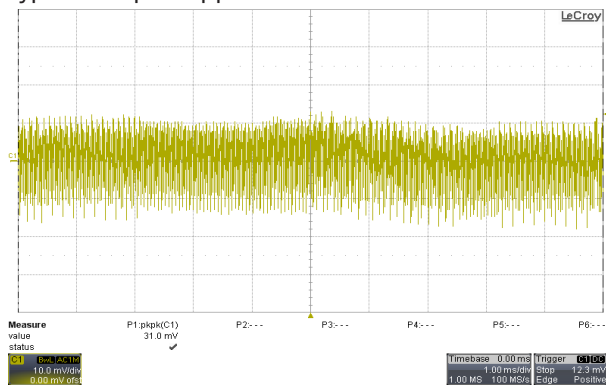
Derating Output Load versus Ambient Temperature



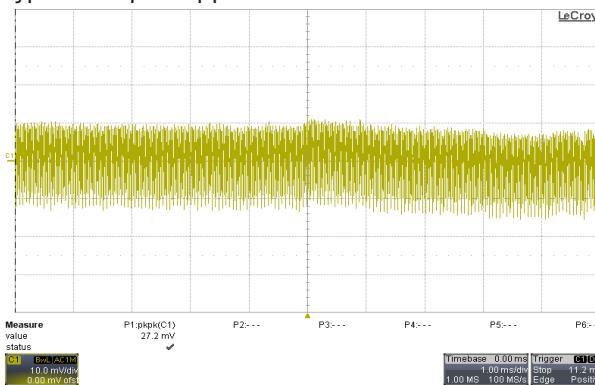
Derating Output versus Input Voltage



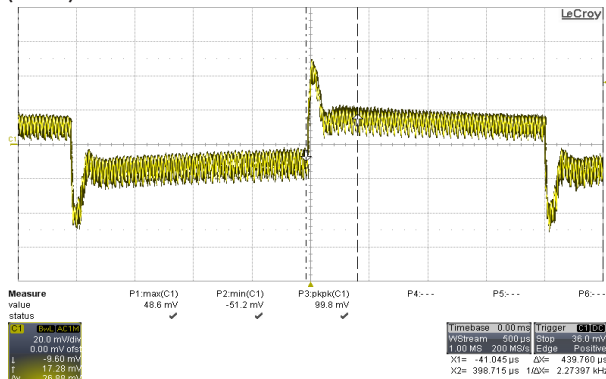
Typical Output Ripple and Noise at 115 Vin



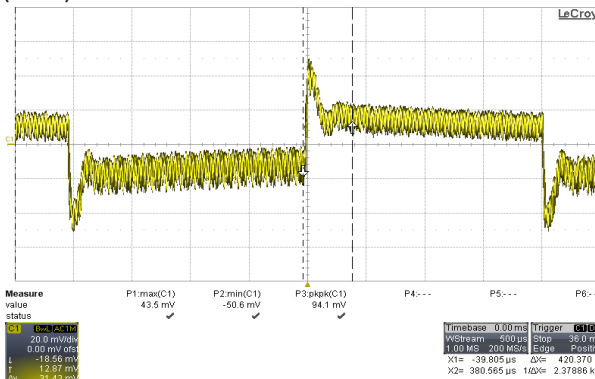
Typical Output Ripple and Noise at 230 Vin



Transiente Response to Dynamic Load Change (25%) at 115 Vin

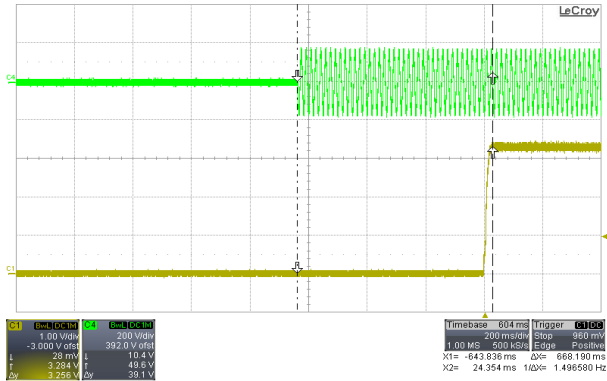


Transiente Response to Dynamic Load Change (25%) at 230 Vin

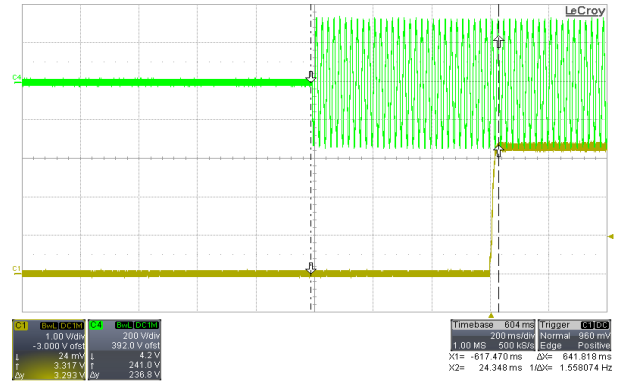


### TPP 30-103

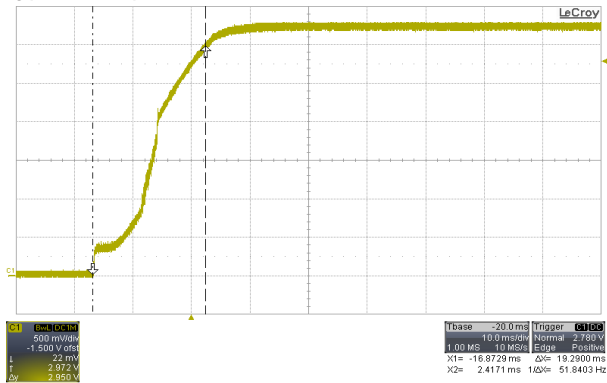
Typical Input Start-Up Characteristic at 115 Vin



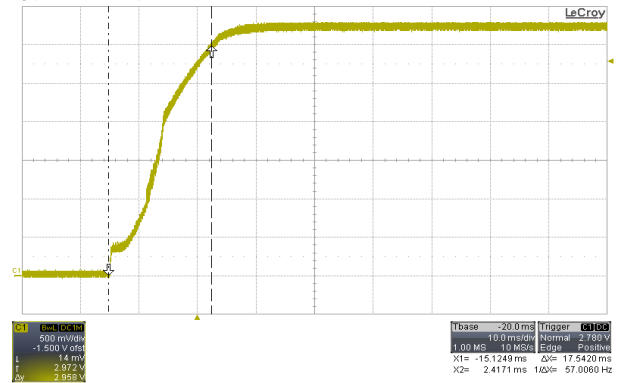
Typical Input Start-Up Characteristic at 230 Vin



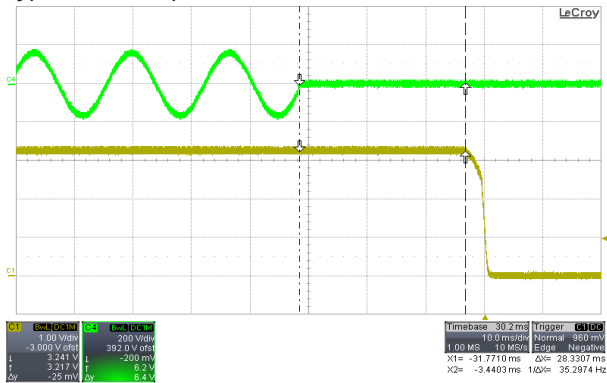
Typical Output Rise Characteristic at 115 Vin



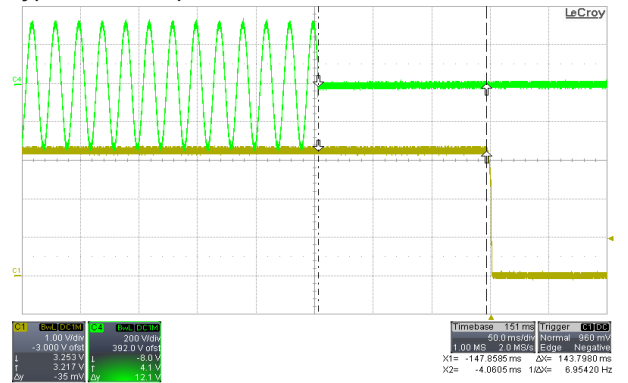
Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin



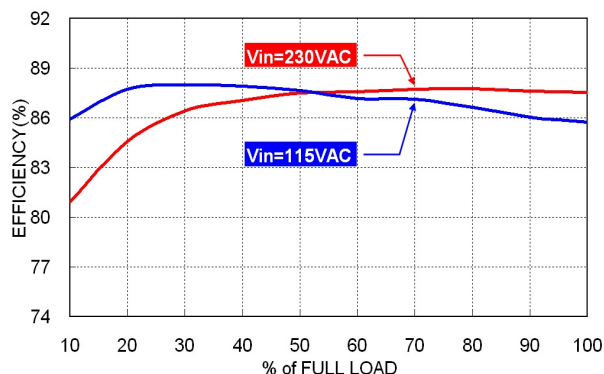
Typical Hold-Up Characteristic at 230 Vin



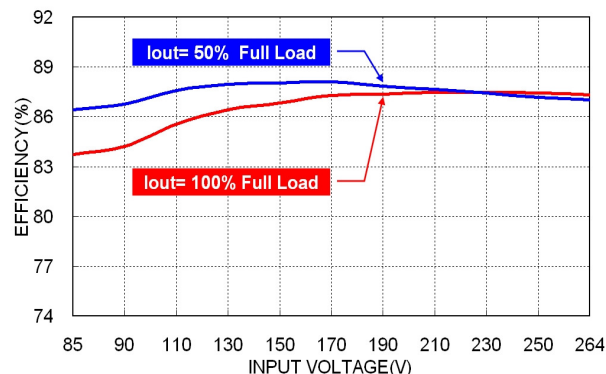
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

## TPP 30-105

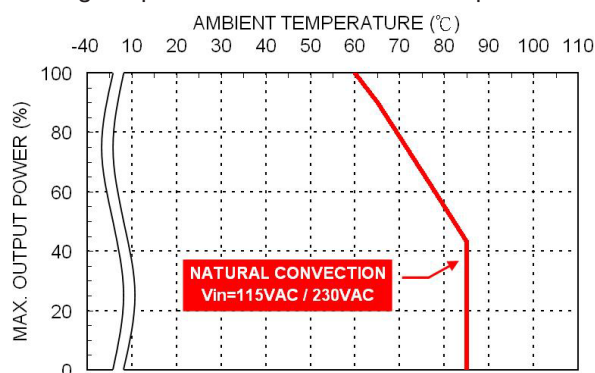
Efficiency versus Output Load



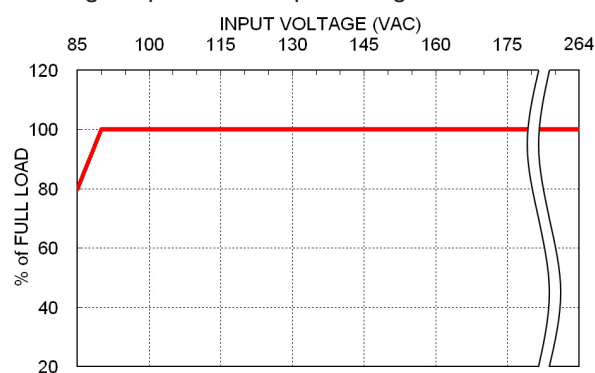
Efficiency versus Input Voltage



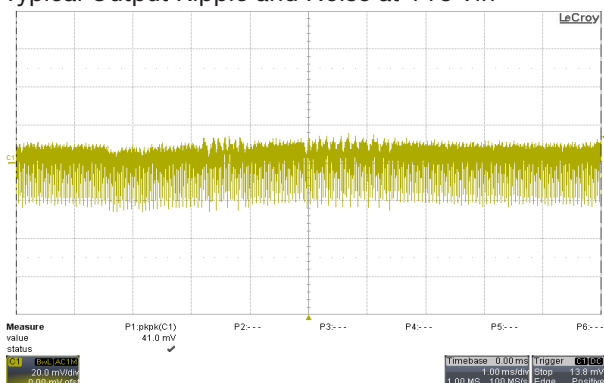
Derating Output Load versus Ambient Temperature



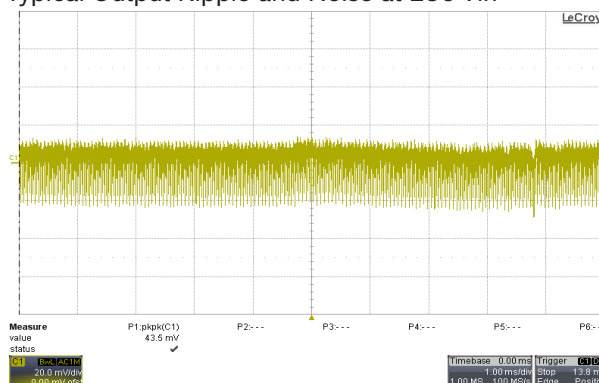
Derating Output Load versus Input Voltage



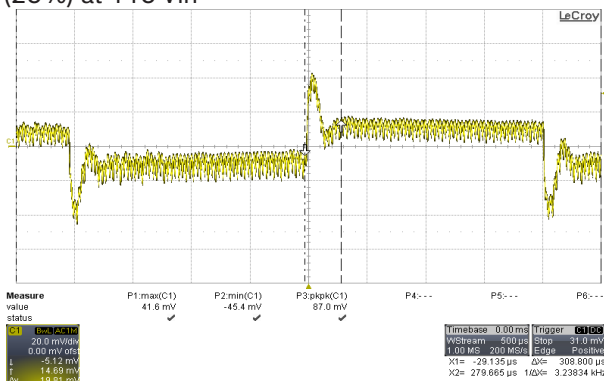
Typical Output Ripple and Noise at 115 Vin



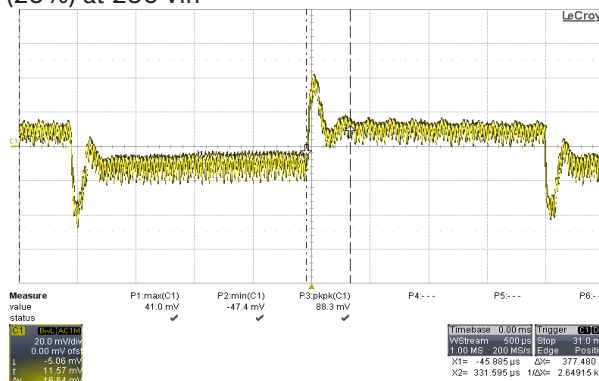
Typical Output Ripple and Noise at 230 Vin



Transiente Response to Dynamic Load Change (25%) at 115 Vin



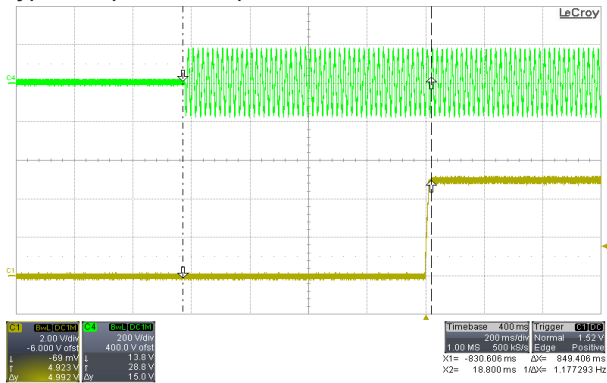
Transiente Response to Dynamic Load Change (25%) at 230 Vin



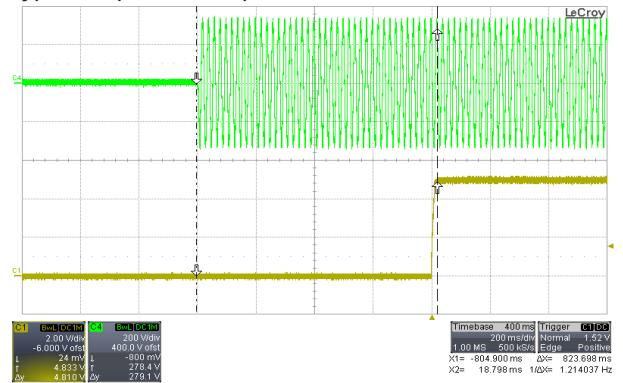
All specifications valid at nominal input voltage, full load and +25 $^{\circ}C$  after warm-up time unless otherwise stated.

### TPP 30-105

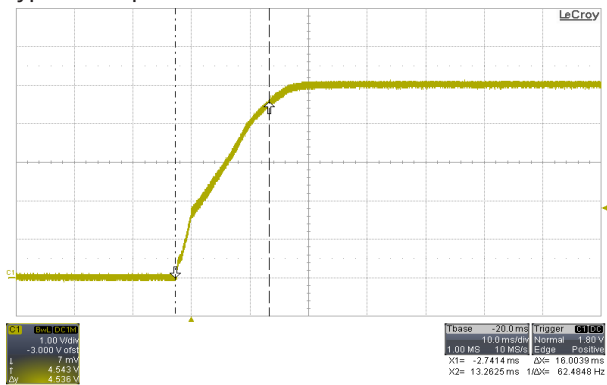
Typical Input Start-Up Characteristic at 115 Vin



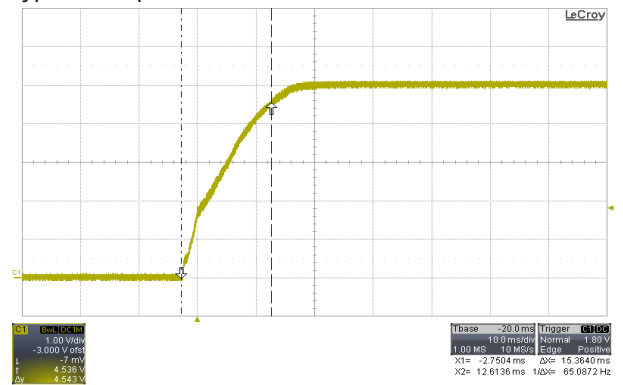
Typical Input Start-Up Characteristic at 230 Vin



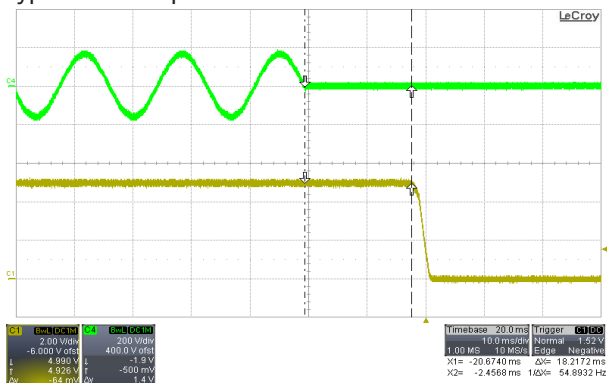
Typical Output Rise Characteristic at 115 Vin



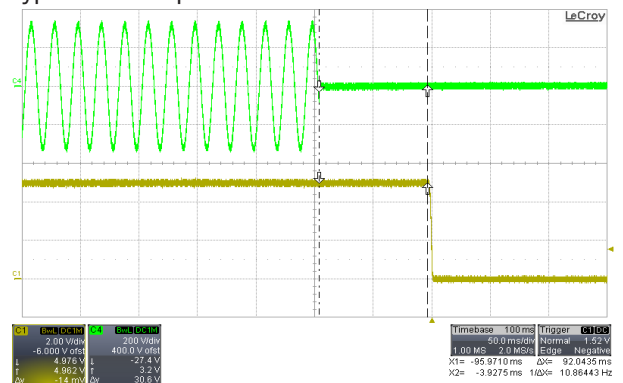
Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin

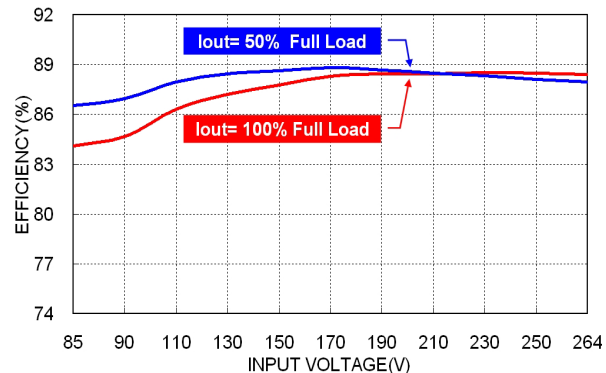
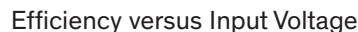


Typical Hold-Up Characteristic at 230 Vin

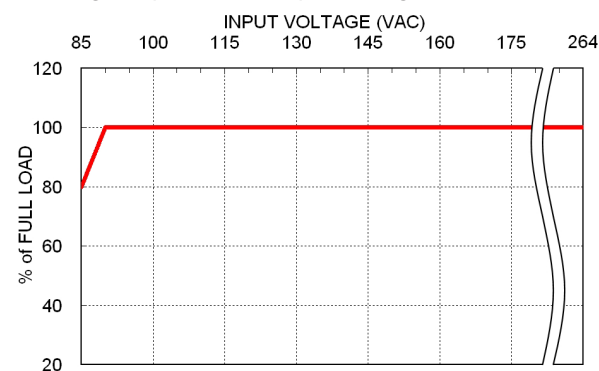
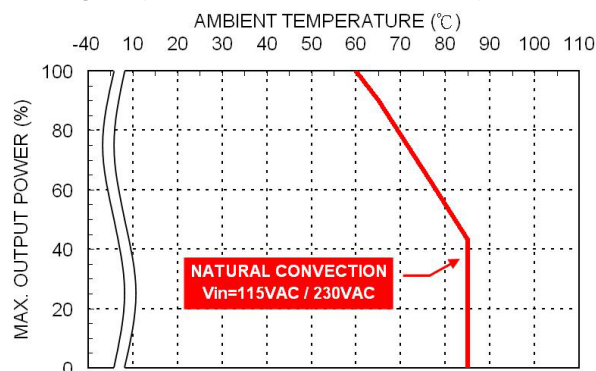


All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

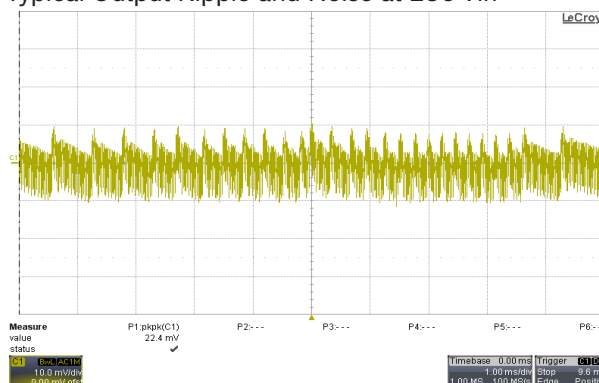
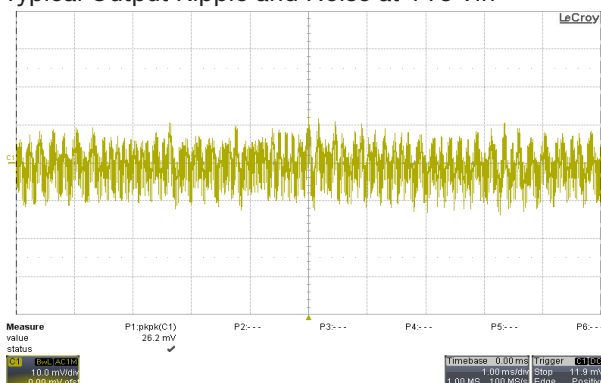
### Efficiency versus Output Load



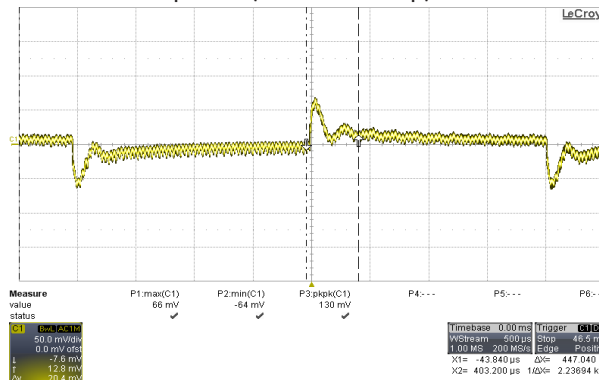
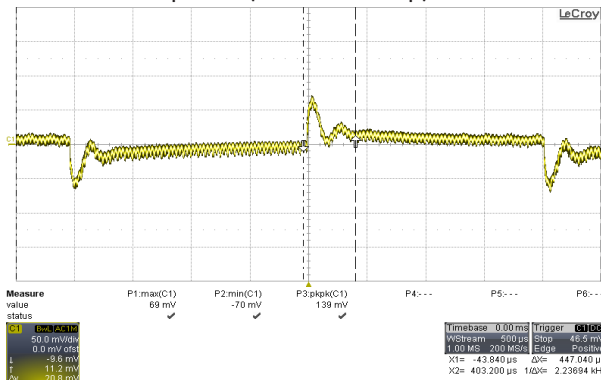
### Derating Output versus Input Voltage



### Typical Output Ripple and Noise at 230 Vin



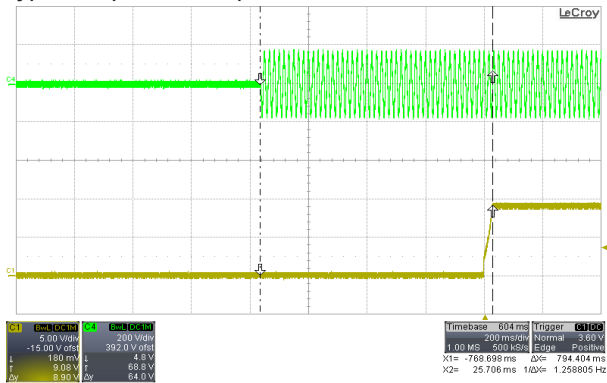
Transiente Response (25% load step) at 230 Vin



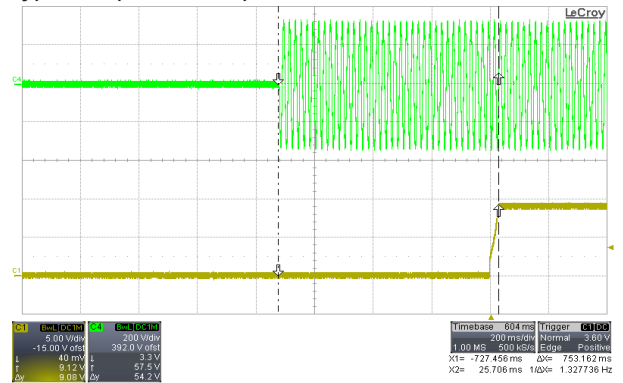
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### TPP 30-109

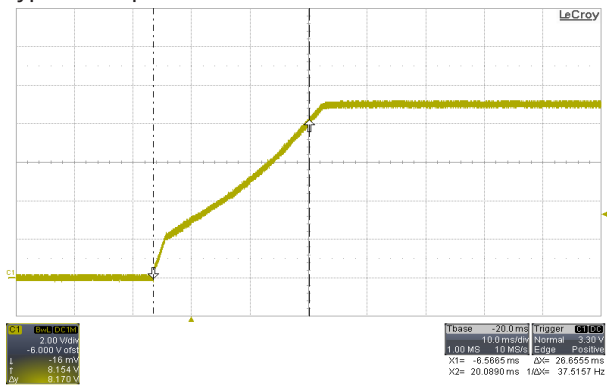
Typical Input Start-Up Characteristic at 115 Vin



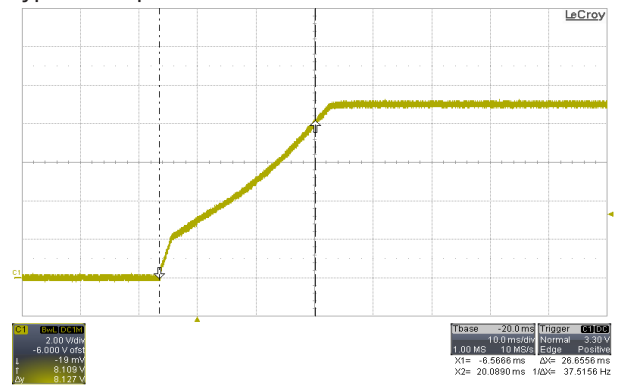
Typical Input Start-Up Characteristic at 230 Vin



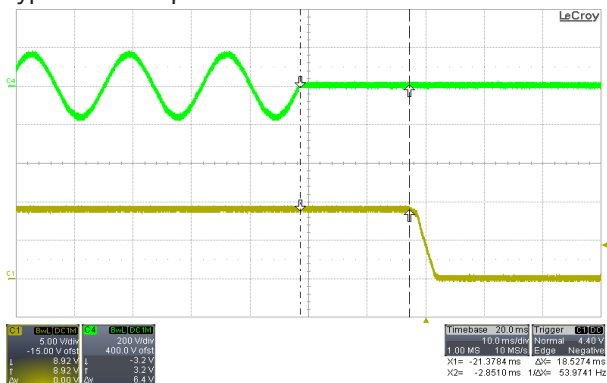
Typical Output Rise Characteristic at 115 Vin



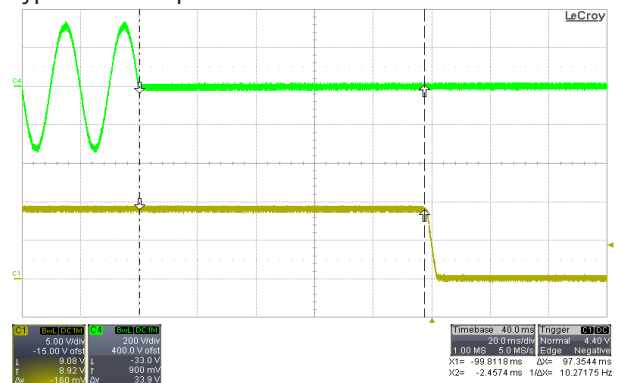
Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin



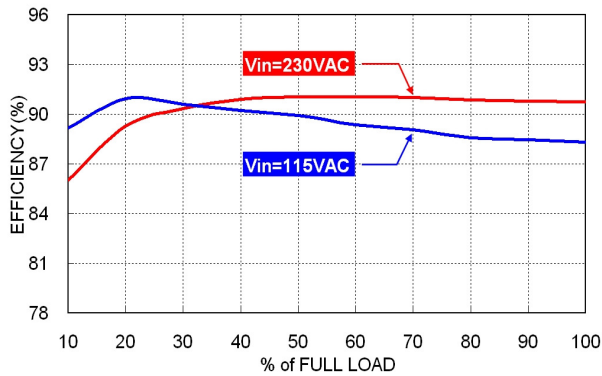
Typical Hold-Up Characteristic at 230 Vin



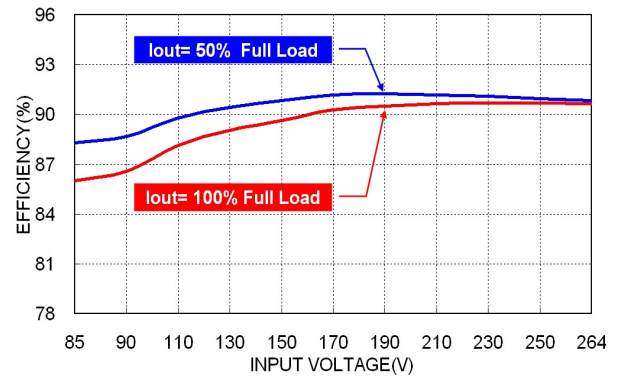
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### TPP 30-112

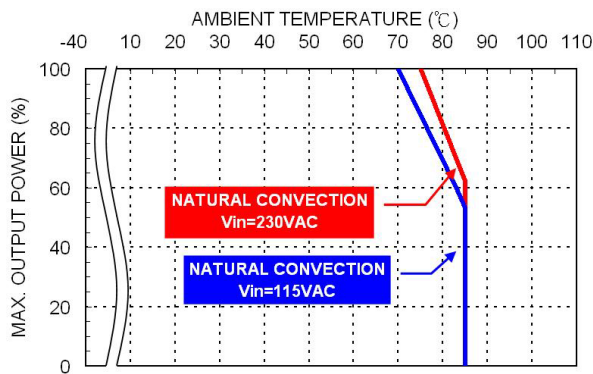
Efficiency versus Output Load



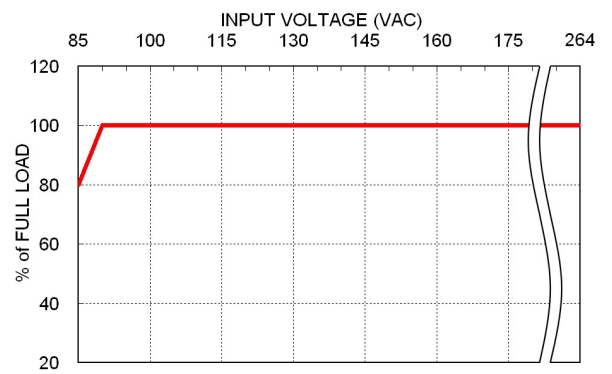
Efficiency versus Input Voltage



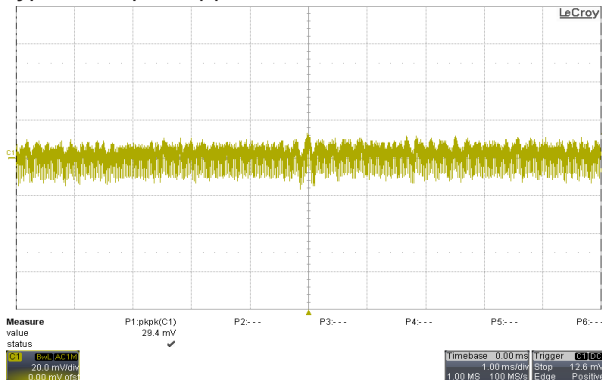
Derating Output Load versus Ambient Temperature



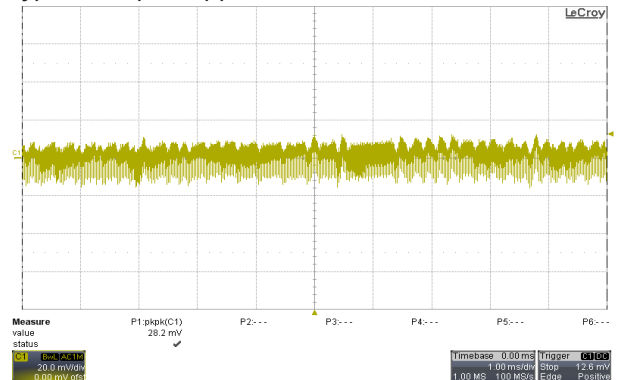
Derating Output versus Input Voltage



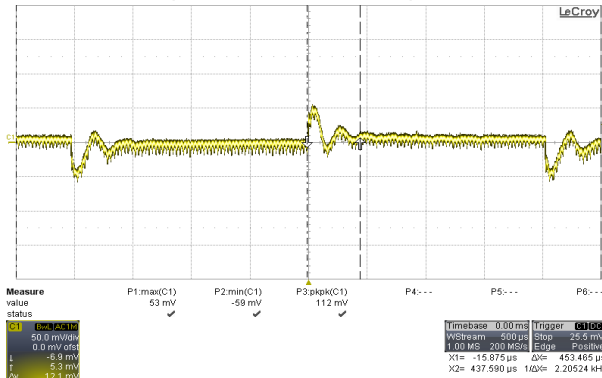
Typical Output Ripple and Noise at 115 Vin



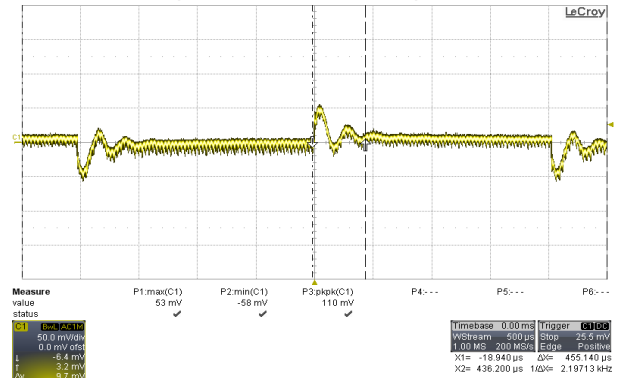
Typical Output Ripple and Noise at 230 Vin



Transiente Response (25% load step) at 115 Vin



Transiente Response (25% load step) at 230 Vin

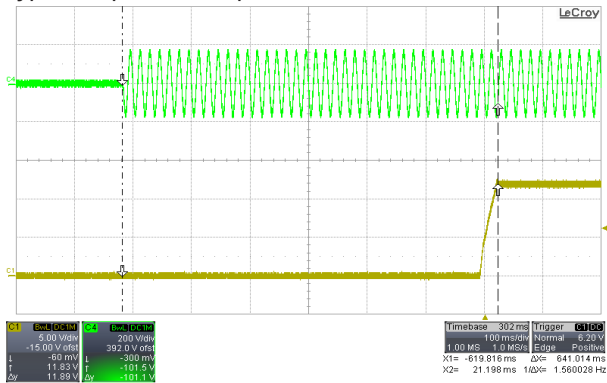


All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

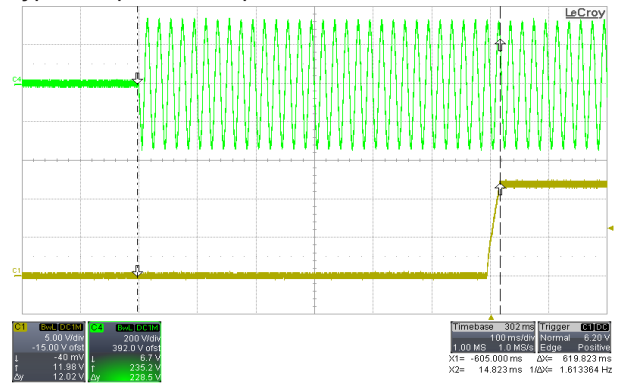


### TPP 30-112

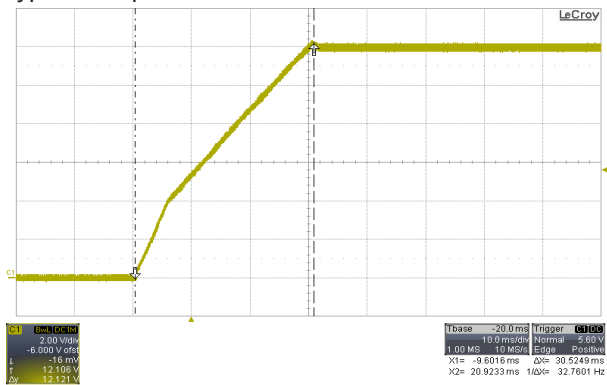
Typical Input Start-Up Characteristic at 115 Vin



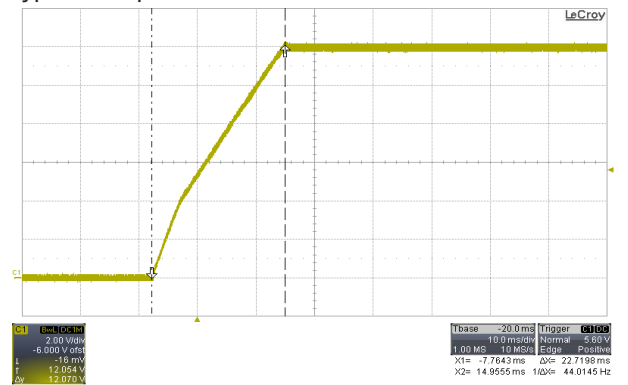
Typical Input Start-Up Characteristic at 230 Vin



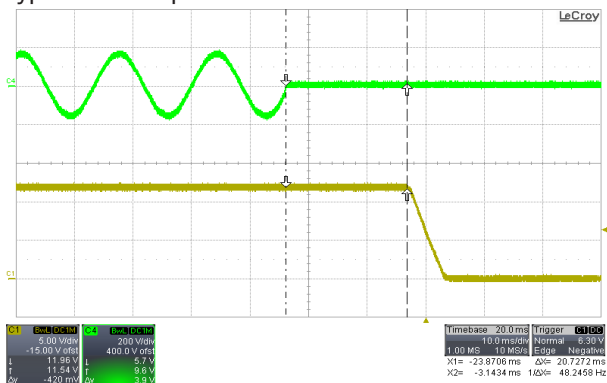
Typical Output Rise Characteristic at 115 Vin



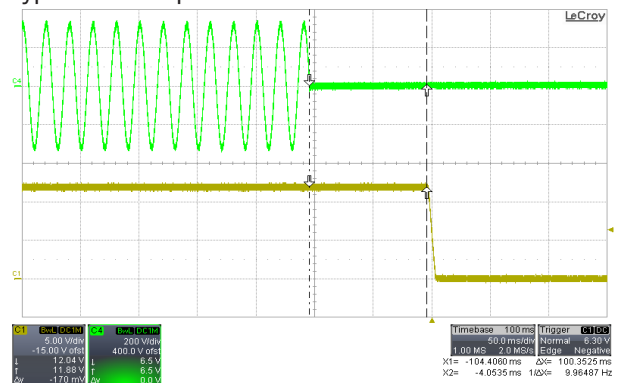
Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin



Typical Hold-Up Characteristic at 230 Vin

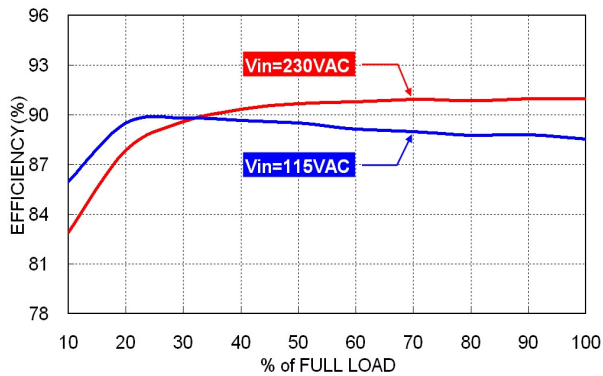


All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

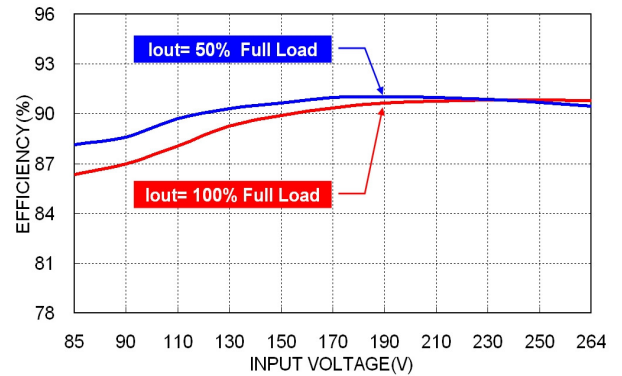


### TPP 30-115

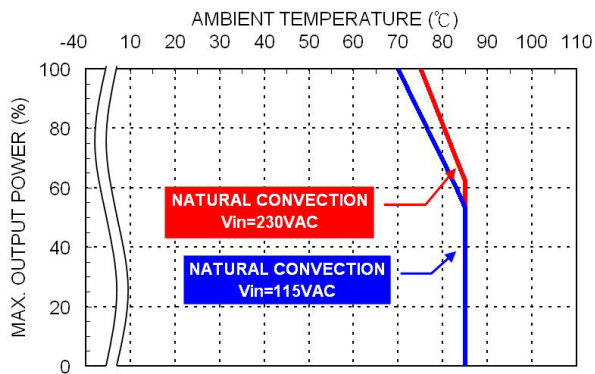
Efficiency versus Output Load



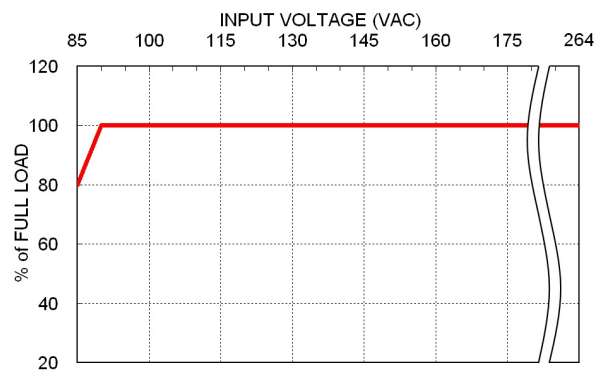
Efficiency versus Input Voltage



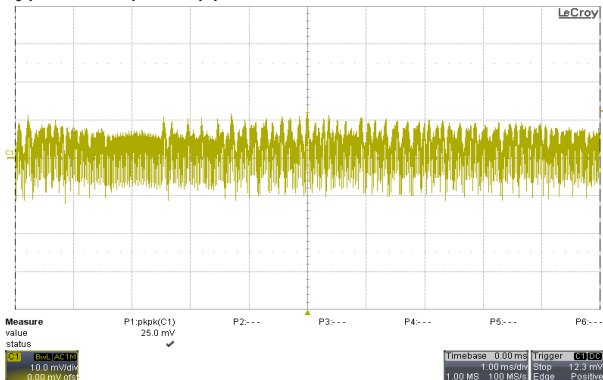
Derating Output Load versus Ambient Temperature



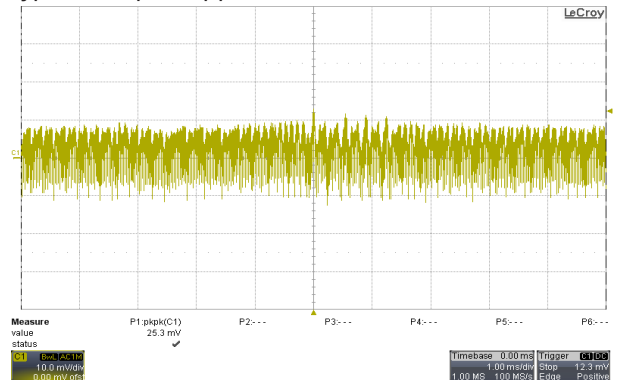
Derating Output versus Input Voltage



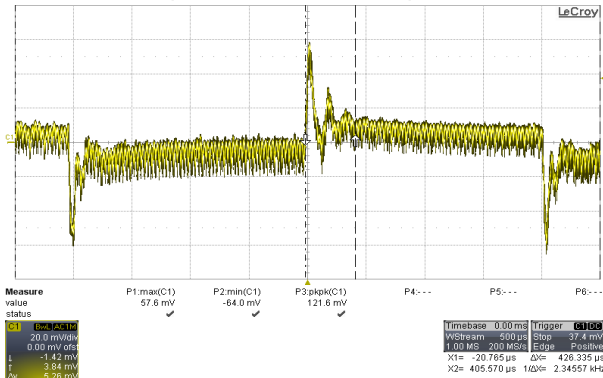
Typical Output Ripple and Noise at 115 Vin



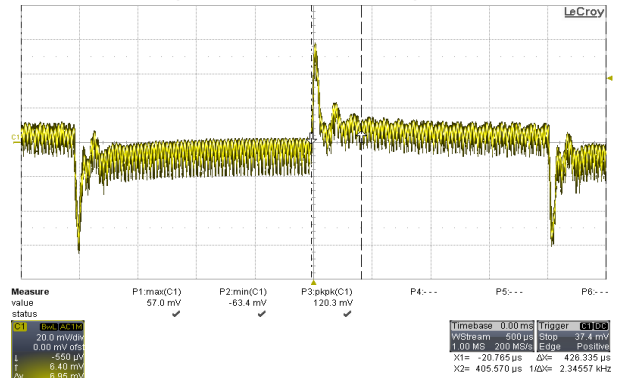
Typical Output Ripple and Noise at 230 Vin



Transiente Response (25% load step) at 115 Vin



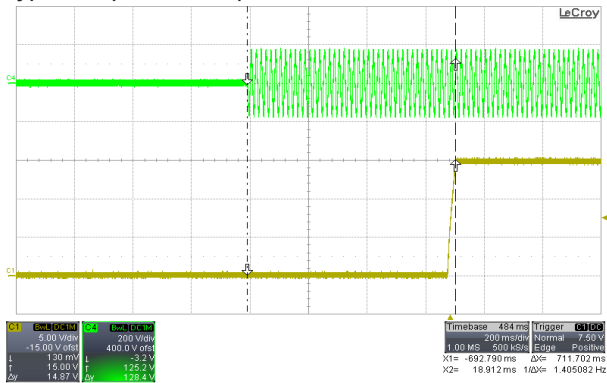
Transiente Response (25% load step) at 230 Vin



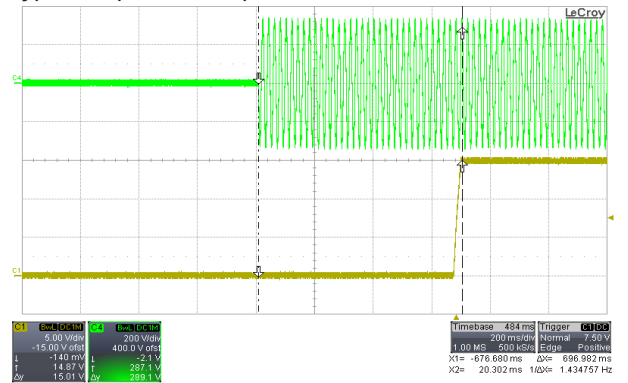
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### TPP 30-115

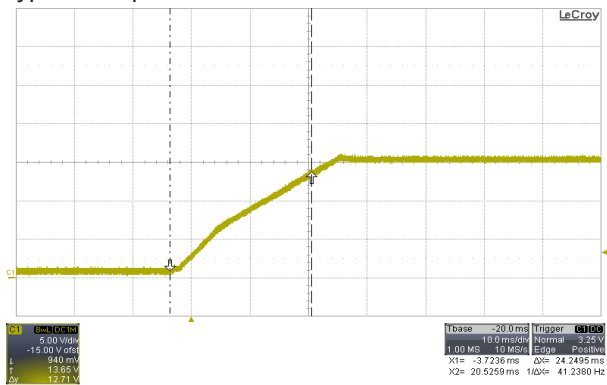
Typical Input Start-Up Characteristic at 115 Vin



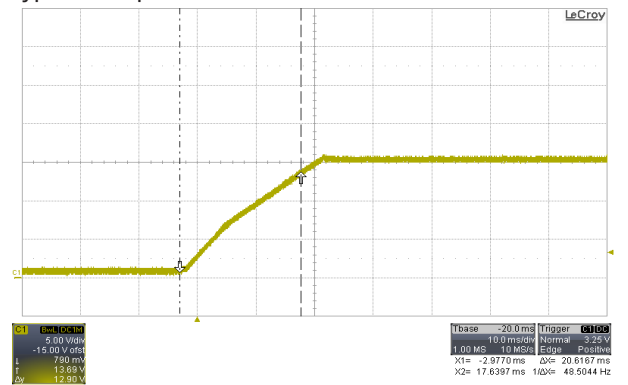
Typical Input Start-Up Characteristic at 230 Vin



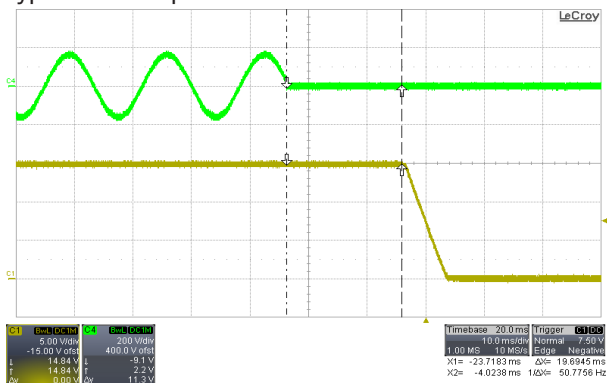
Typical Output Rise Characteristic at 115 Vin



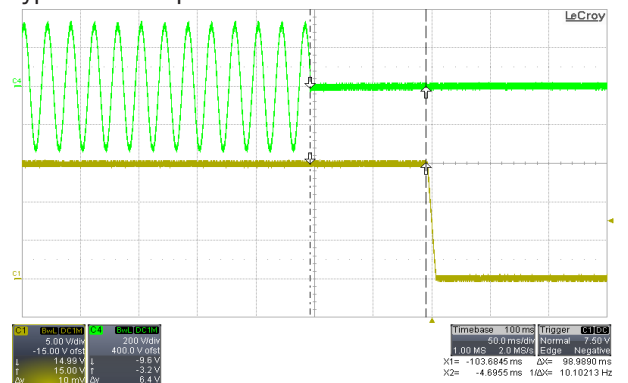
Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin



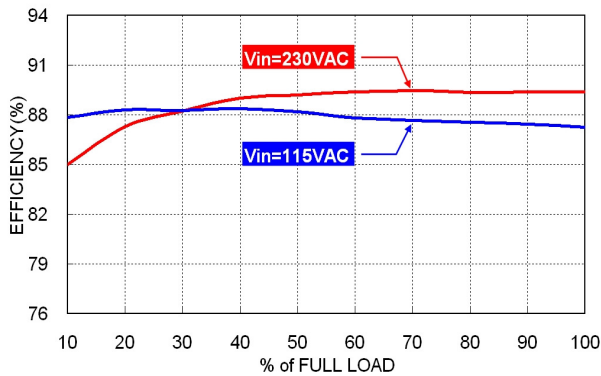
Typical Hold-Up Characteristic at 230 Vin



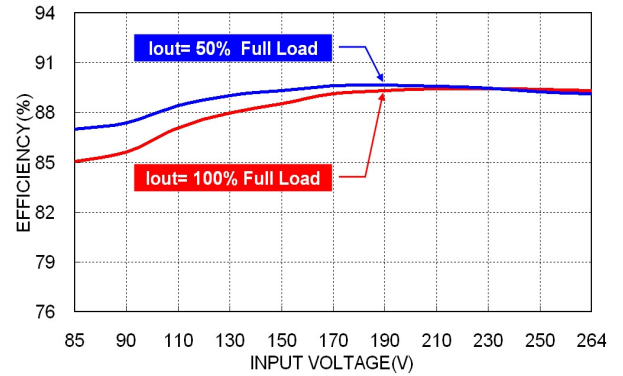
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

## TPP 30-124

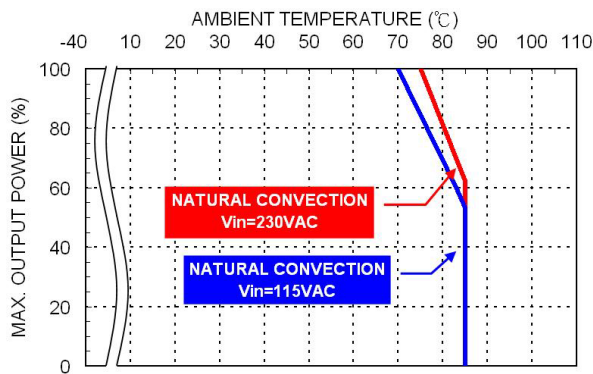
Efficiency versus Output Load



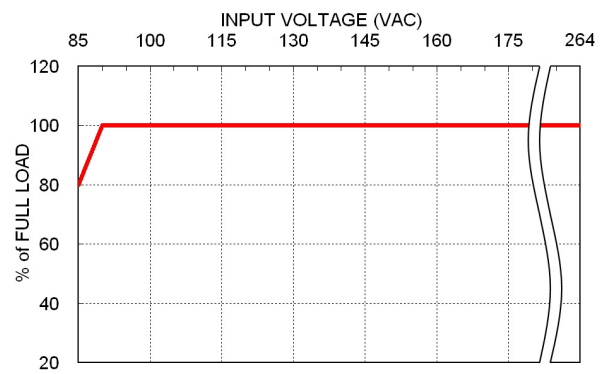
Efficiency versus Input Voltage



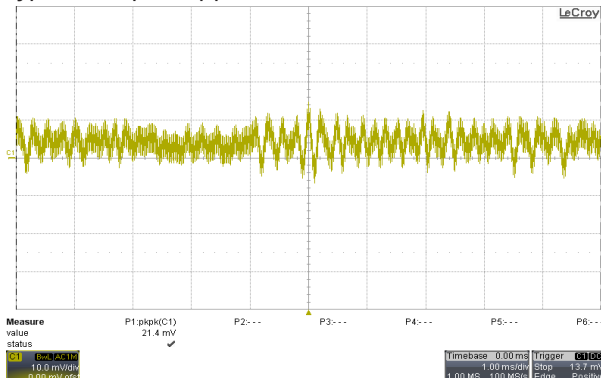
Derating Output Load versus Ambient Temperature



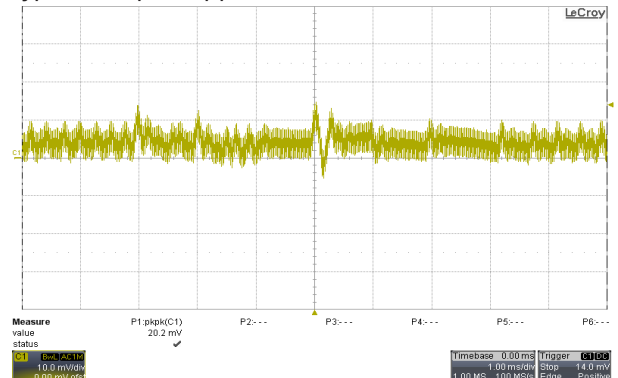
Derating Output versus Input Voltage



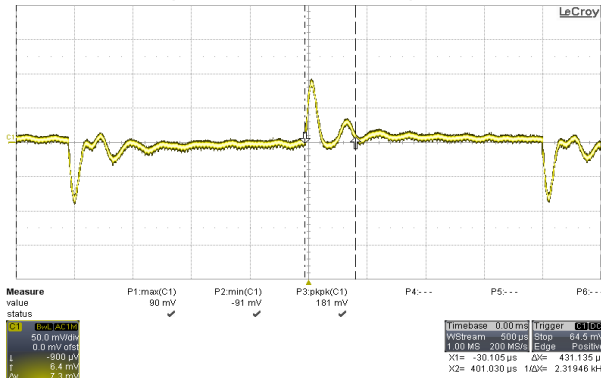
Typical Output Ripple and Noise at 115 Vin



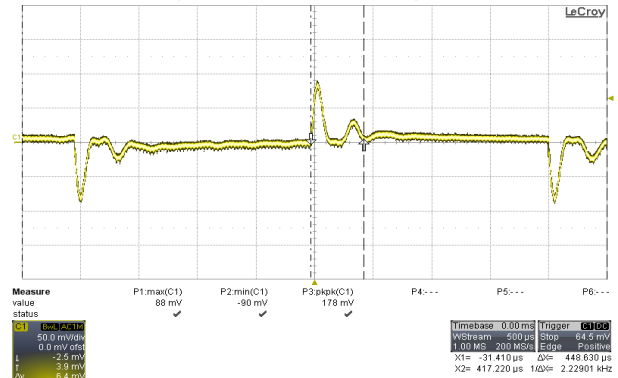
Typical Output Ripple and Noise at 230 Vin



Transiente Response (25% load step) at 115 Vin



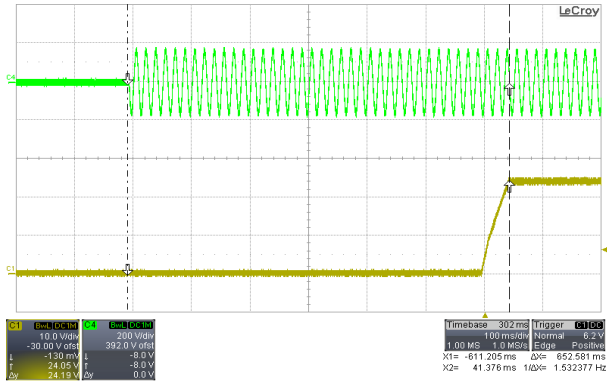
Transiente Response (25% load step) at 230 Vin



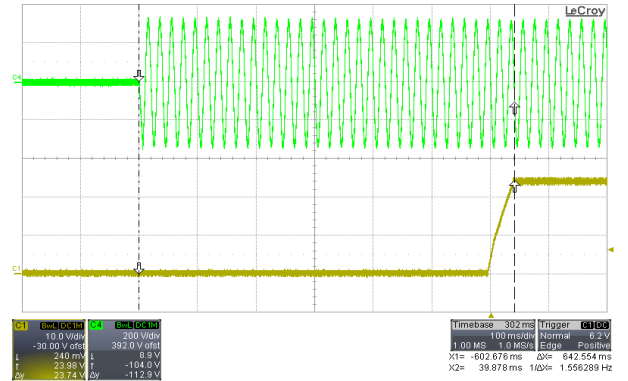
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### TPP 30-124

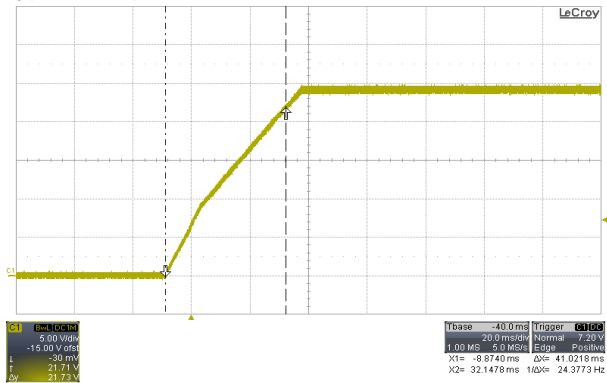
Typical Input Start-Up Characteristic at 115 Vin



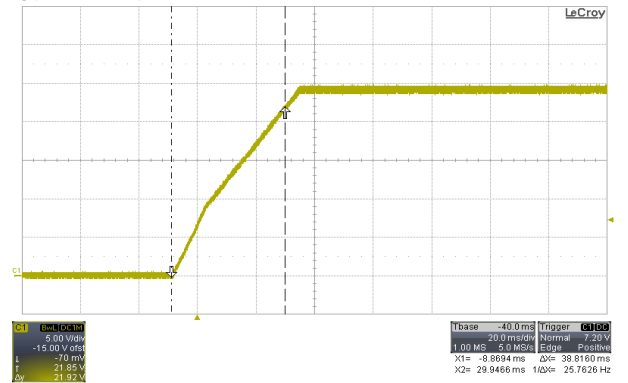
Typical Input Start-Up Characteristic at 230 Vin



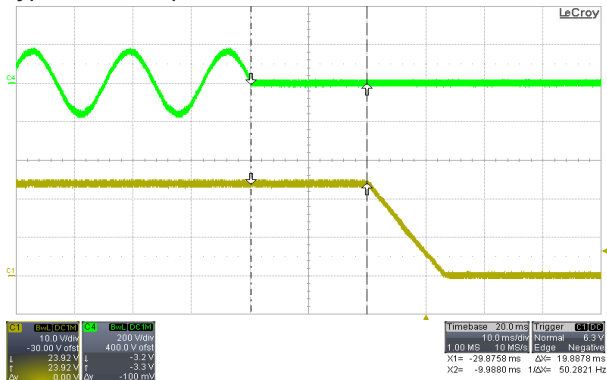
Typical Output Rise Characteristic at 115 Vin



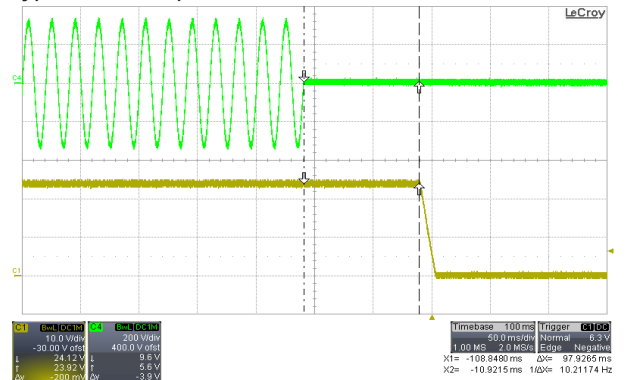
Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin

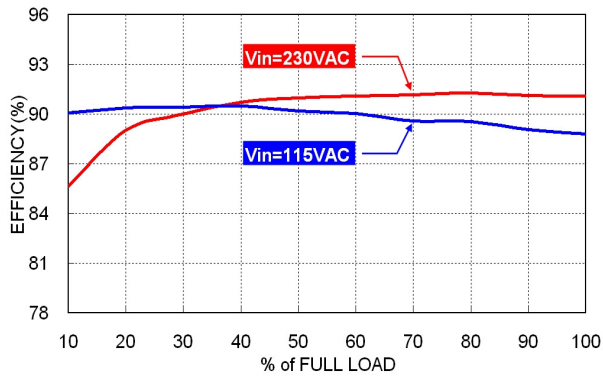


Typical Hold-Up Characteristic at 230 Vin

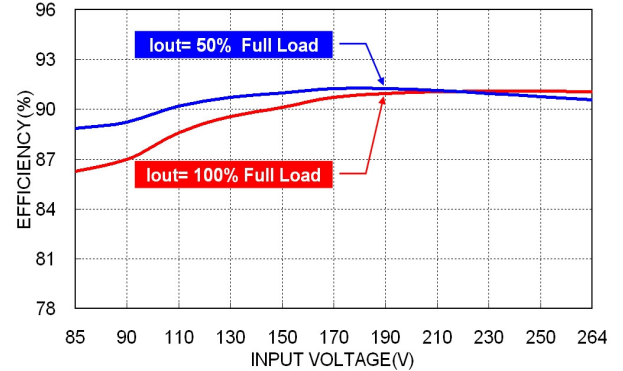


### TPP 30-136

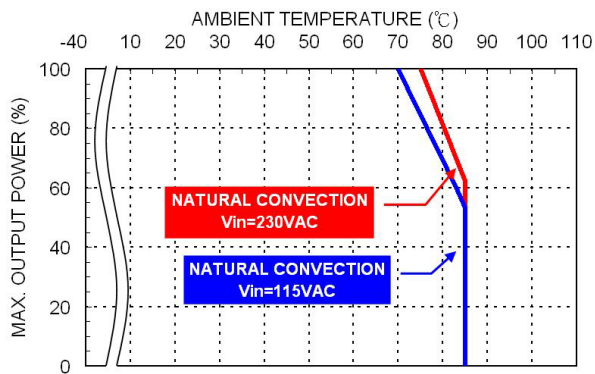
Efficiency versus Output Load



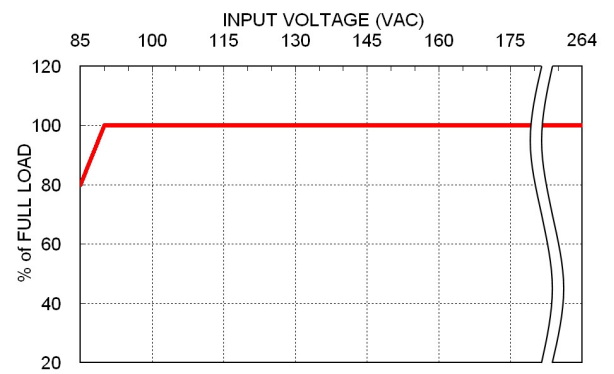
Efficiency versus Input Voltage



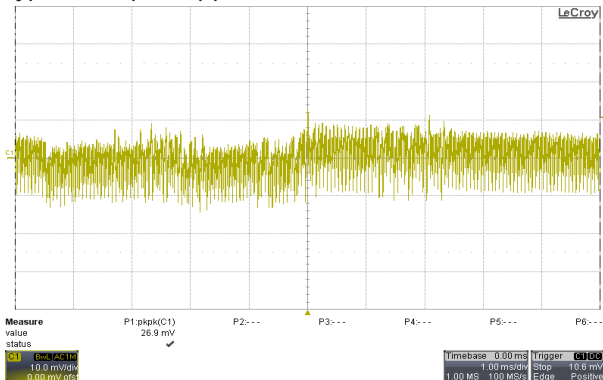
Derating Output Load versus Ambient Temperature



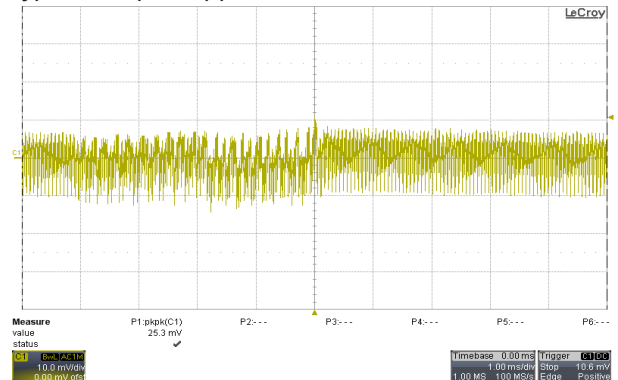
Derating Output versus Input Voltage



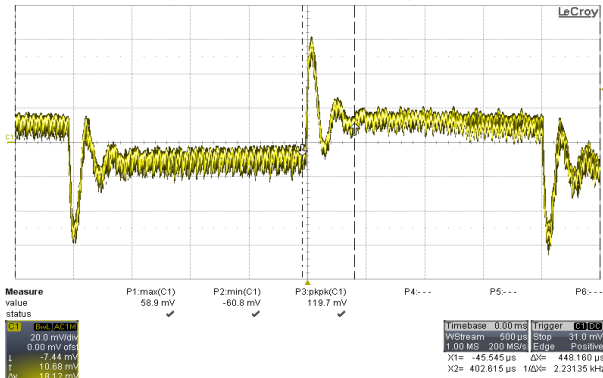
Typical Output Ripple and Noise at 115 Vin



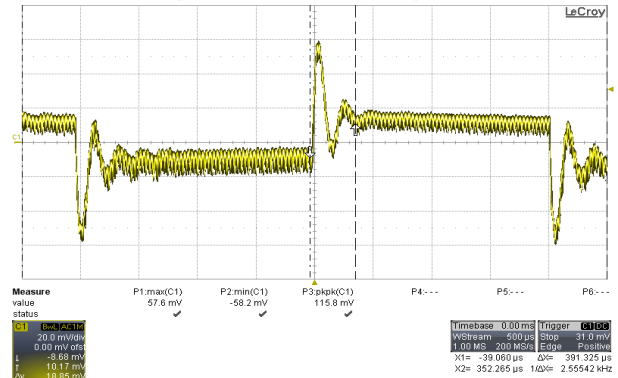
Typical Output Ripple and Noise at 230 Vin



Transiente Response (25% load step) at 115 Vin



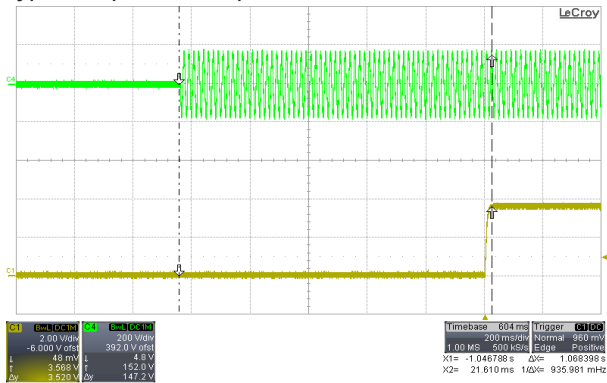
Transiente Response (25% load step) at 230 Vin



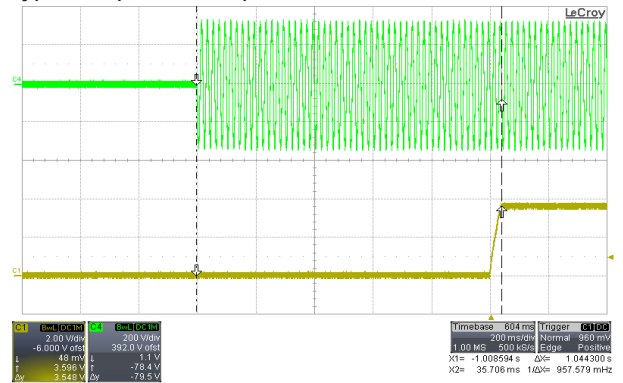
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### TPP 30-136

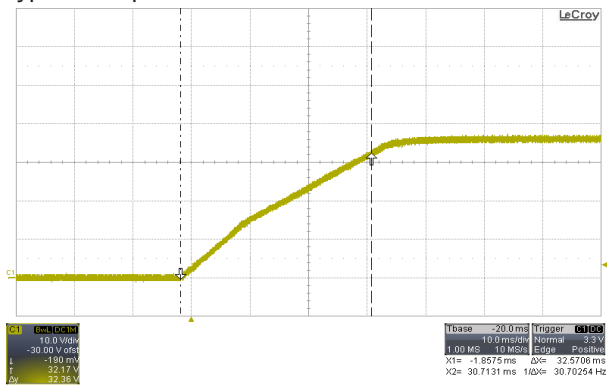
Typical Input Start-Up Characteristic at 115 Vin



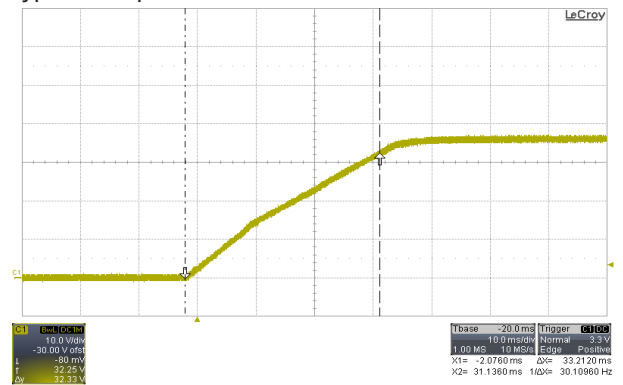
Typical Input Start-Up Characteristic at 230 Vin



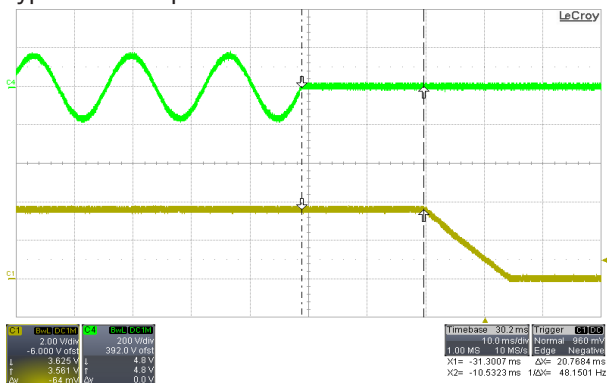
Typical Output Rise Characteristic at 115 Vin



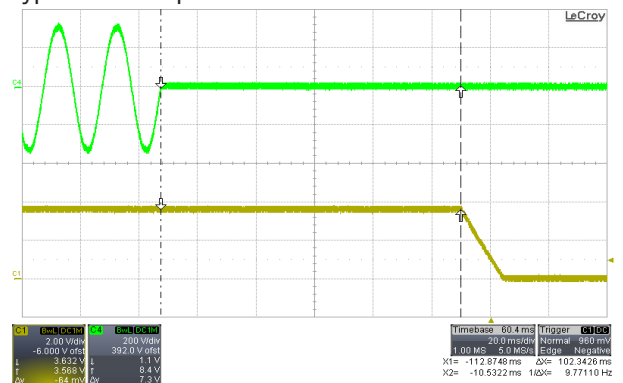
Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin



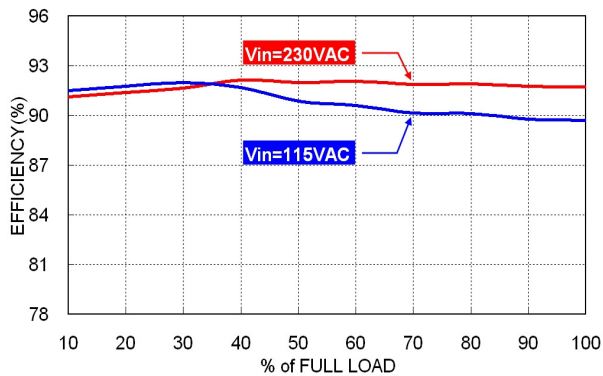
Typical Hold-Up Characteristic at 230 Vin



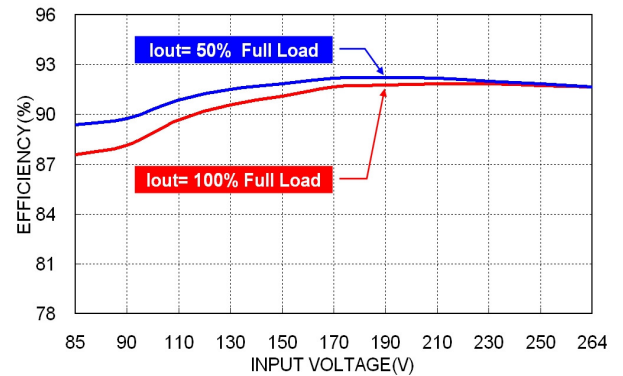
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### TPP 30-148

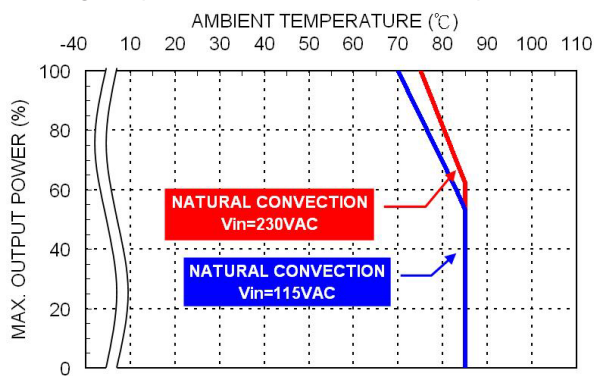
Efficiency versus Output Load



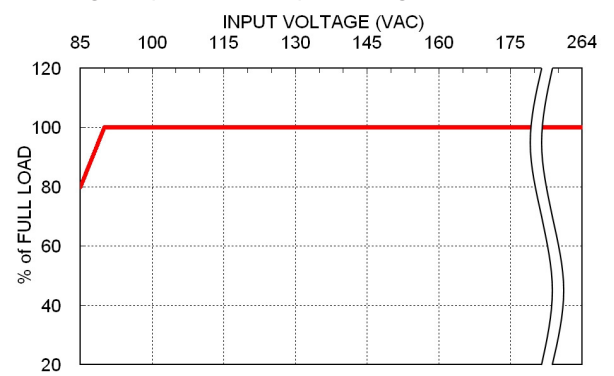
Efficiency versus Input Voltage



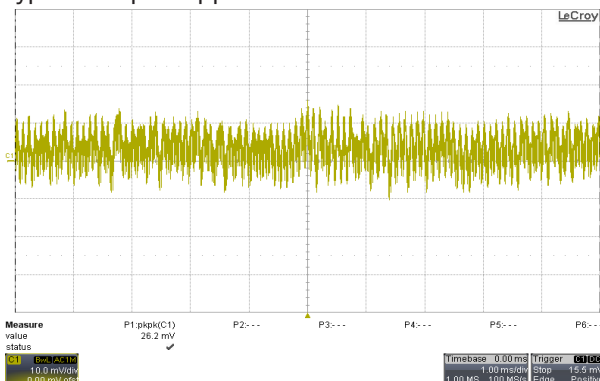
Derating Output Load versus Ambient Temperature



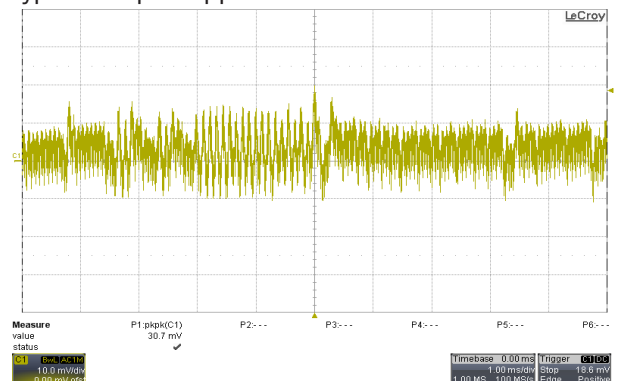
Derating Output versus Input Voltage



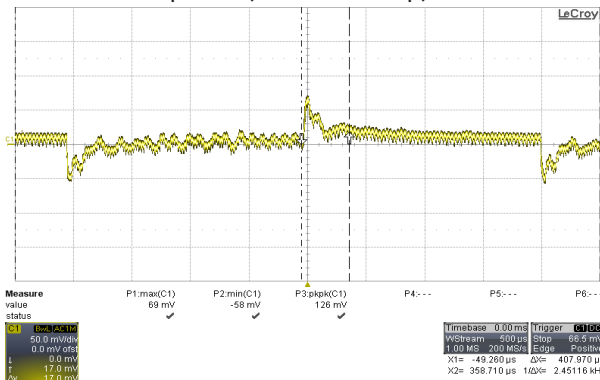
Typical Output Ripple and Noise at 115 Vin



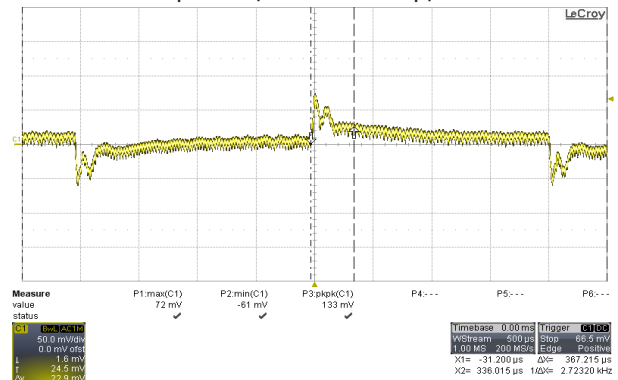
Typical Output Ripple and Noise at 230 Vin



Transiente Response (25% load step) at 115 Vin



Transiente Response (25% load step) at 230 Vin

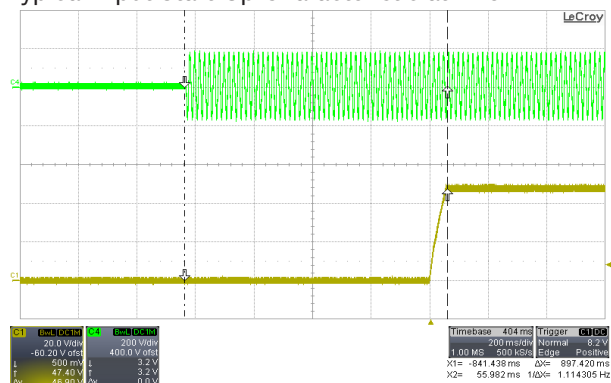


All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

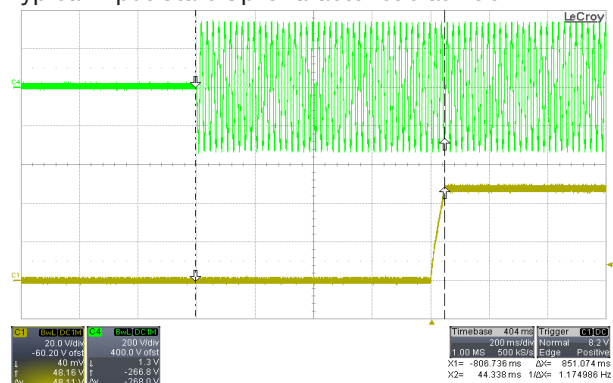


### TPP 30-148

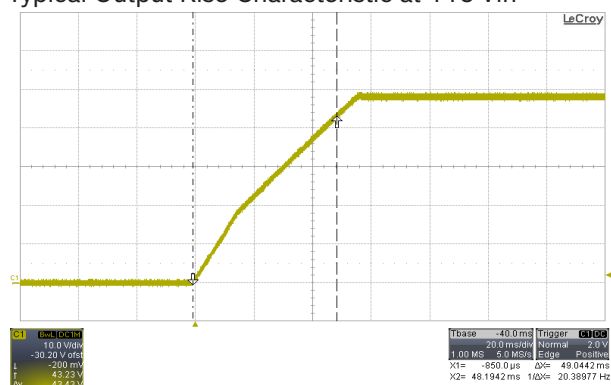
Typical Input Start-Up Characteristic at 115 Vin



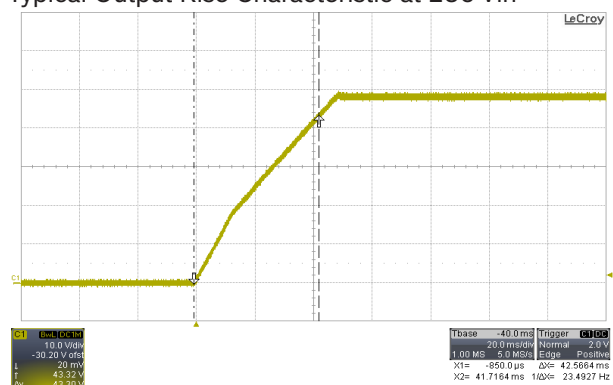
Typical Input Start-Up Characteristic at 230 Vin



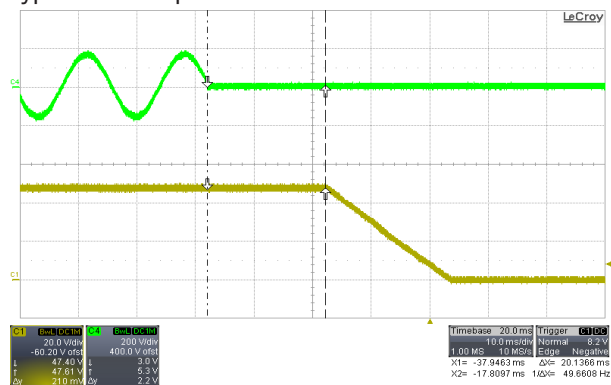
Typical Output Rise Characteristic at 115 Vin



Typical Output Rise Characteristic at 230 Vin



Typical Hold-Up Characteristic at 115 Vin



Typical Hold-Up Characteristic at 230 Vin

