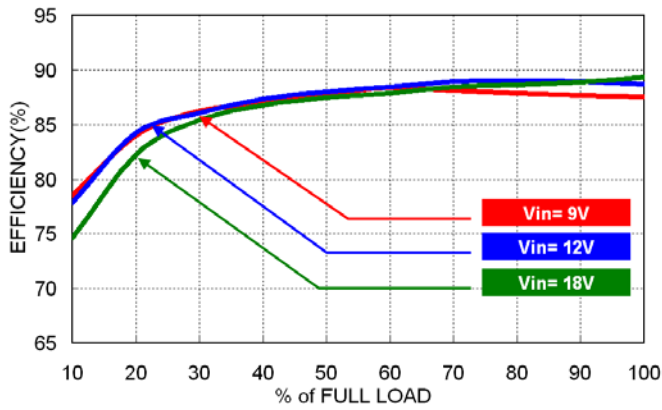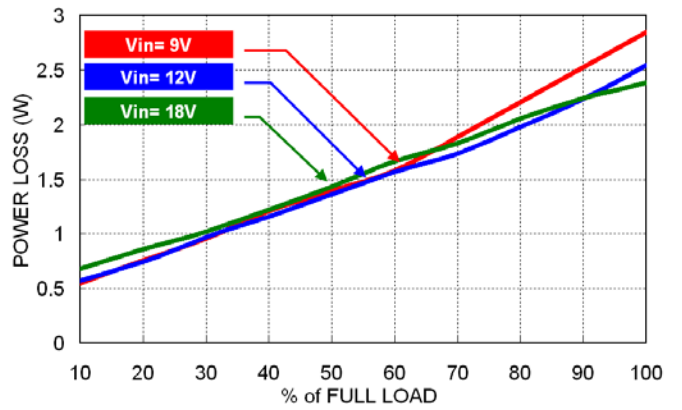POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-12S05

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
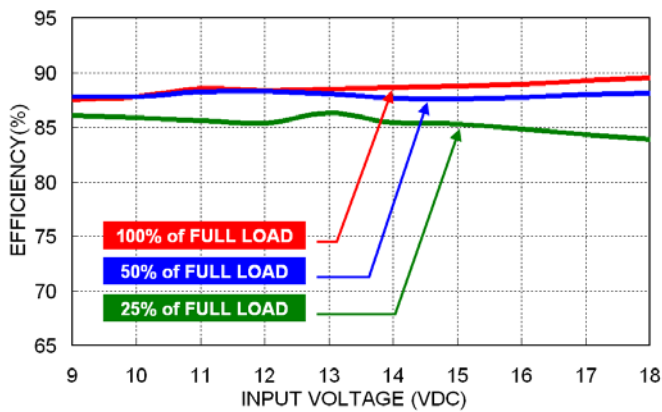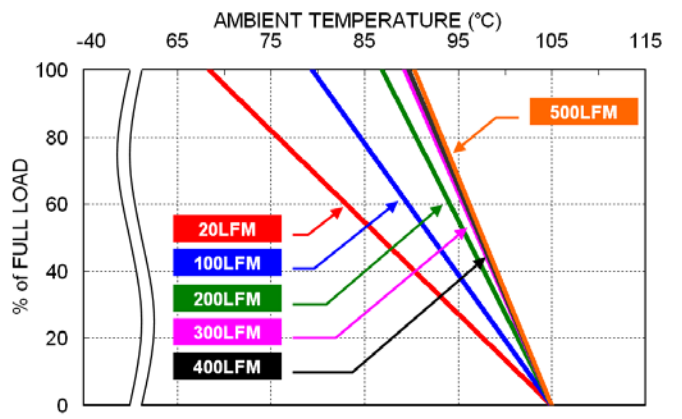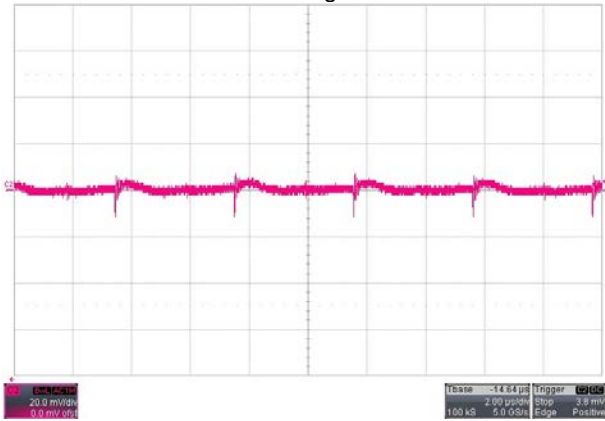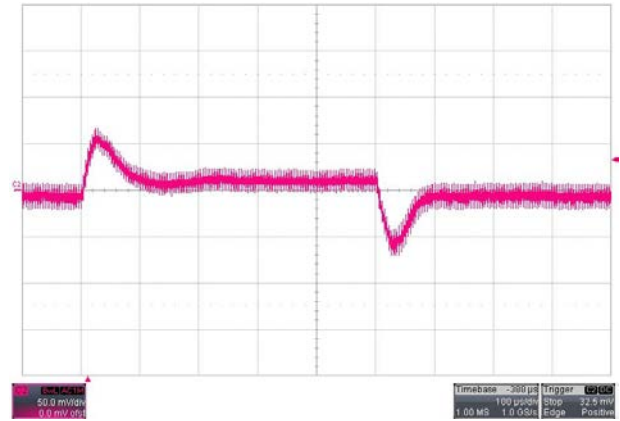Medical DC/DC Converter
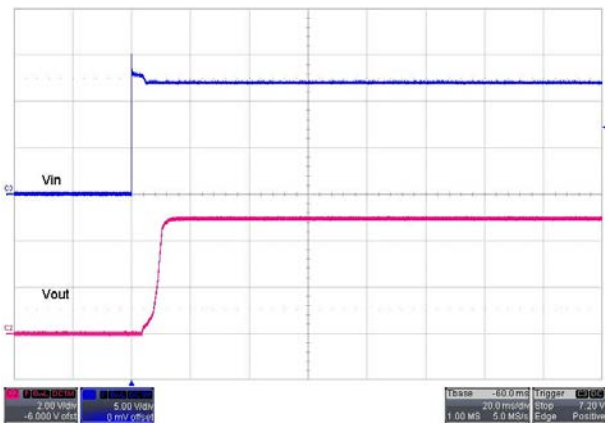Characteristic Curves

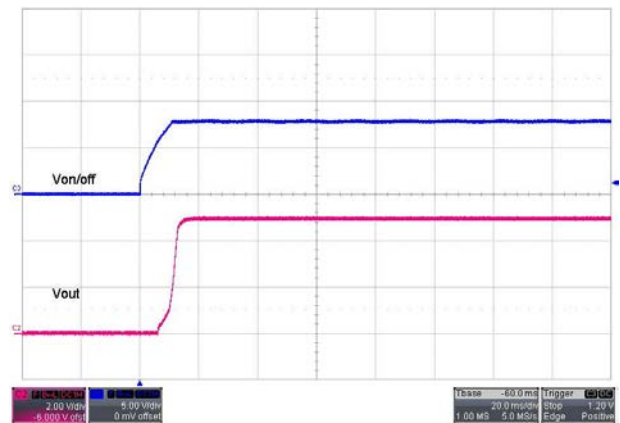All test conditions are at 25℃.The figures are identical for PMM20-12S05

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
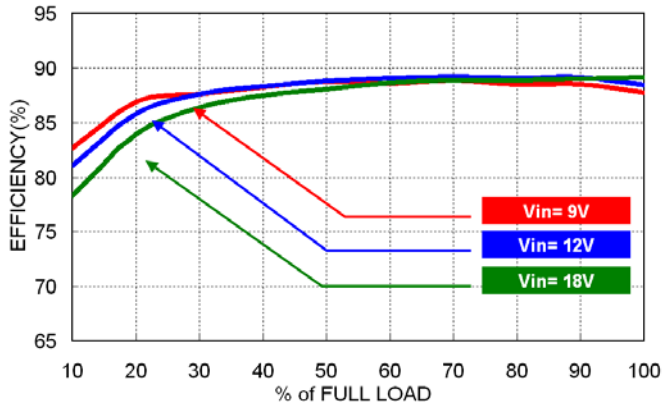100% to 75% to 100% of Full Load ; Vin(nom)

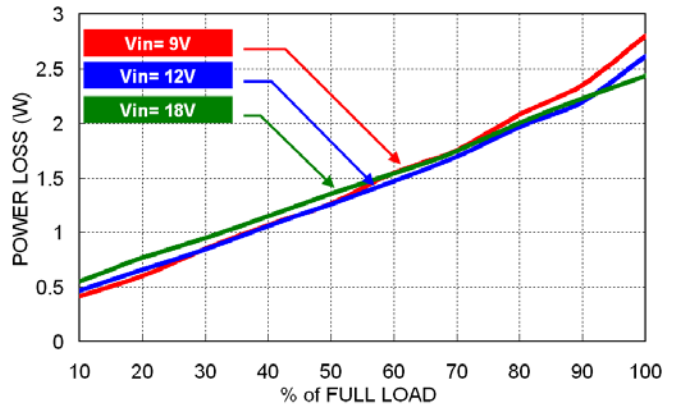Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
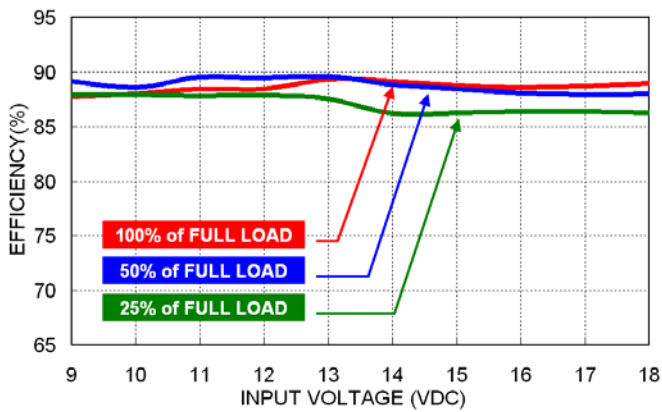Characteristic Curves

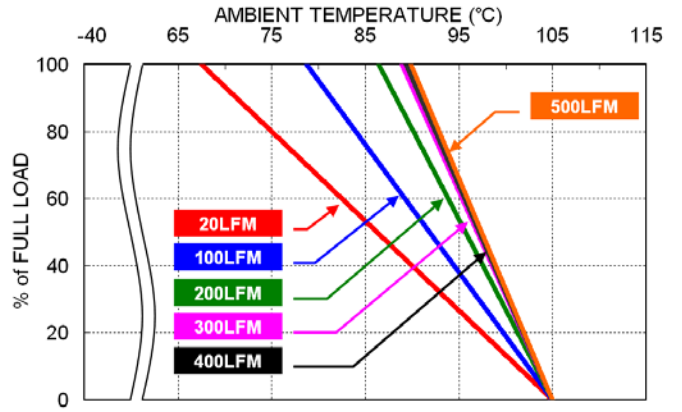All test conditions are at 25℃.The figures are identical for PMM20-12S12

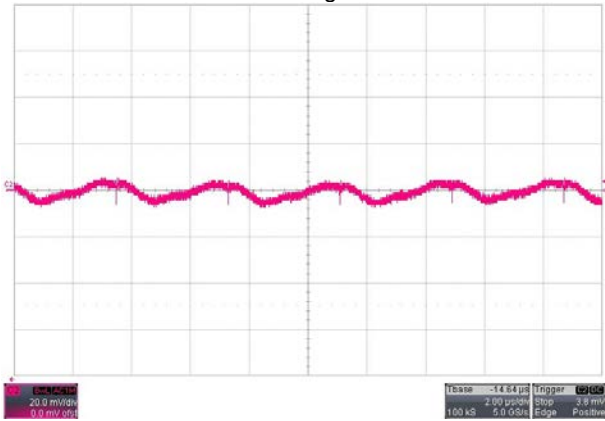Efficiency Versus Output Load

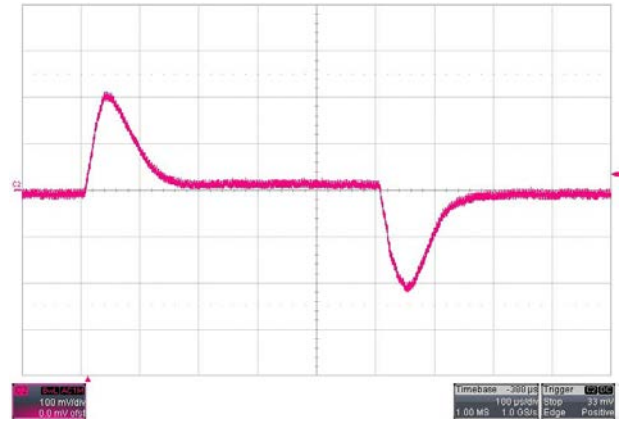Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
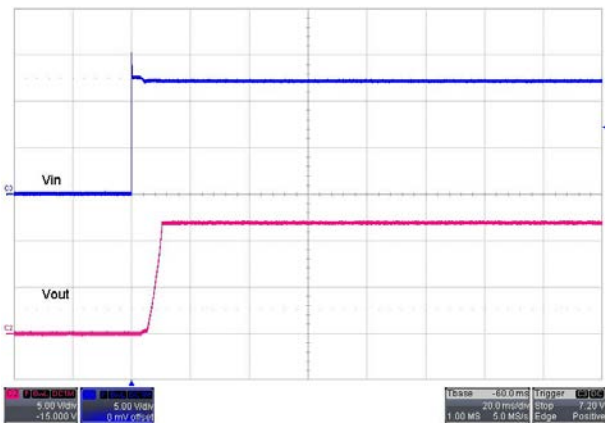Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

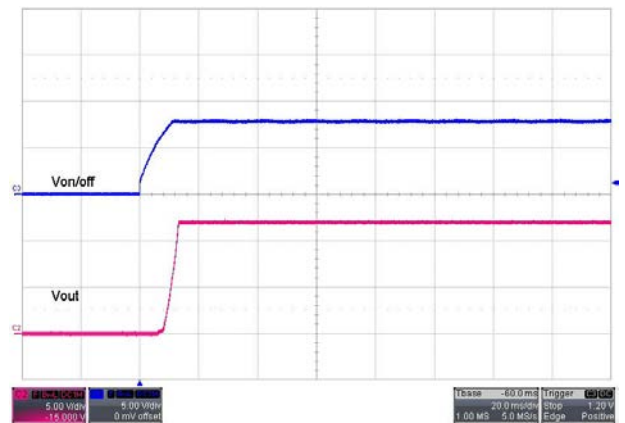All test conditions are at 25℃.The figures are identical for PMM20-12S12

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
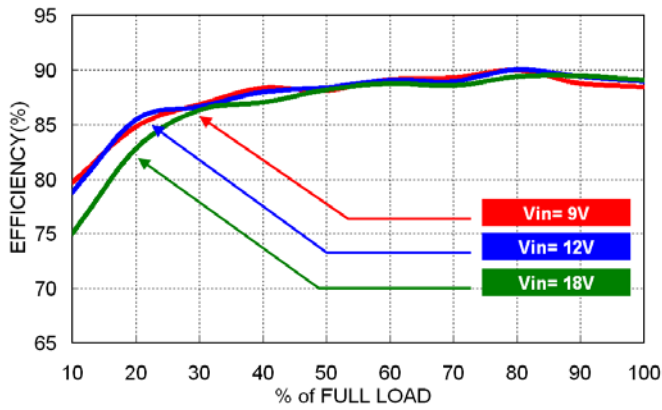Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
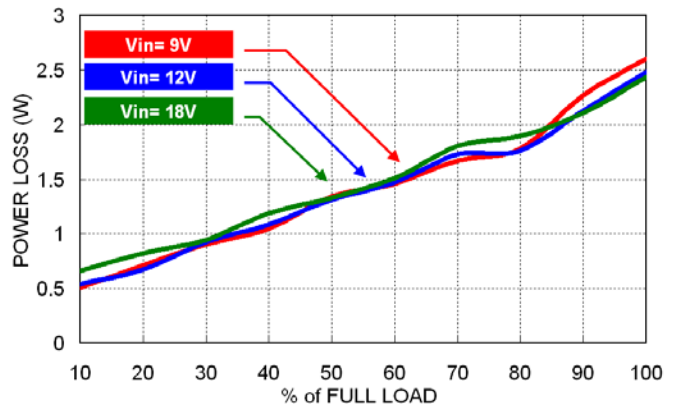Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
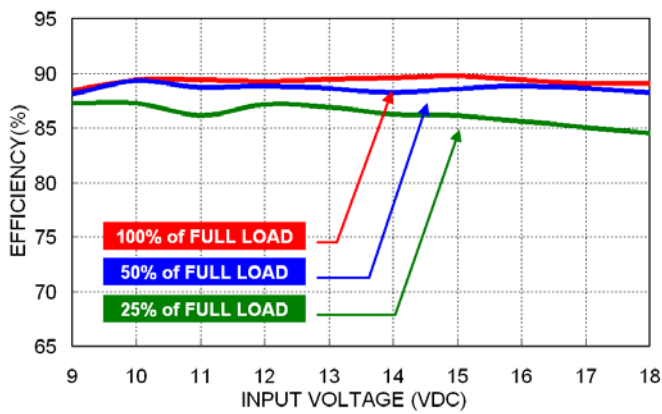Characteristic Curves

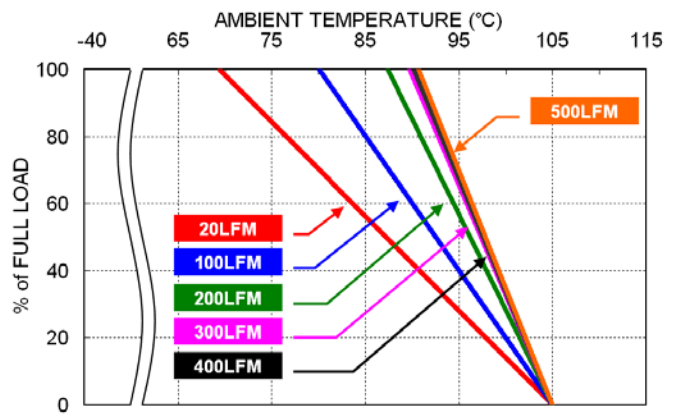All test conditions are at 25℃.The figures are identical for PMM20-12S15

Efficiency Versus Output Load
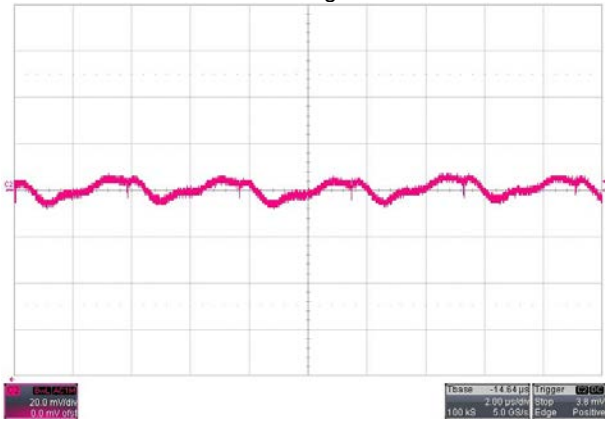

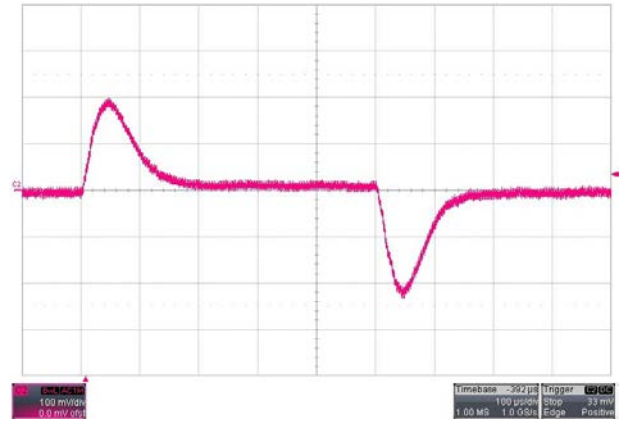Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
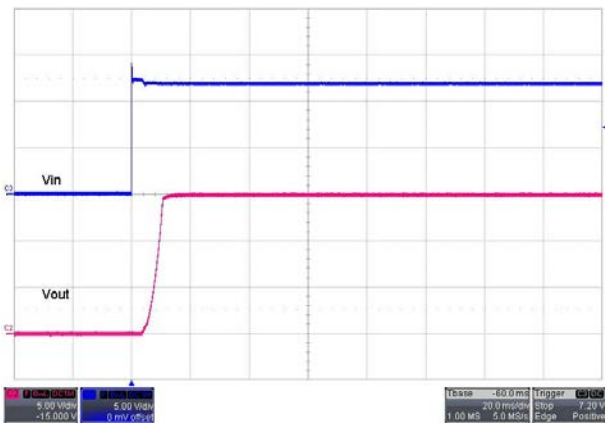Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-12S15

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
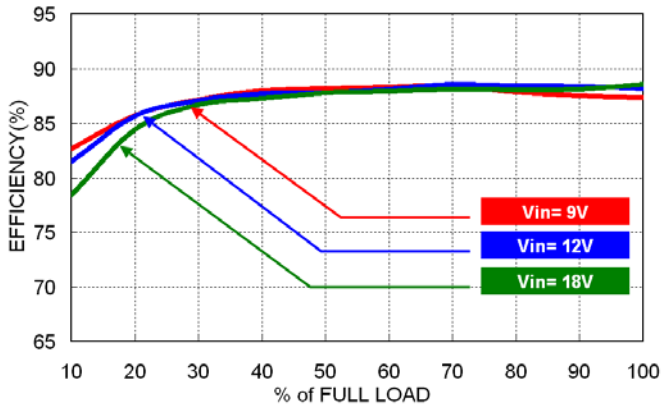100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
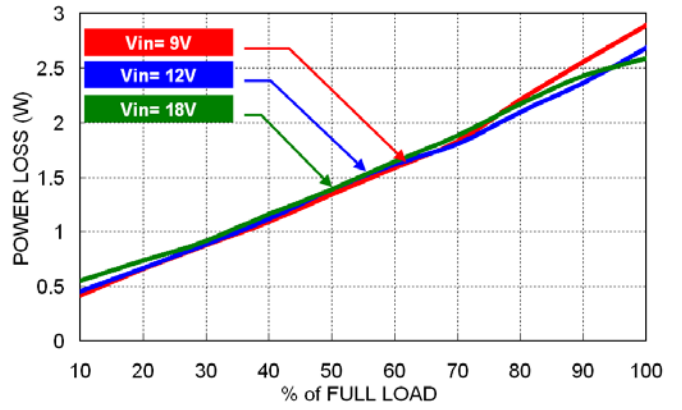Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
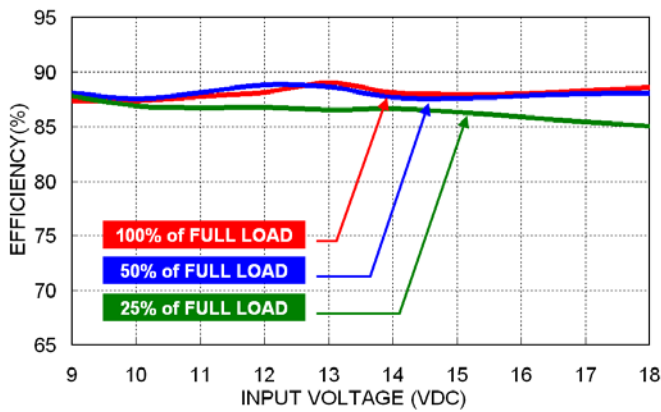Characteristic Curves

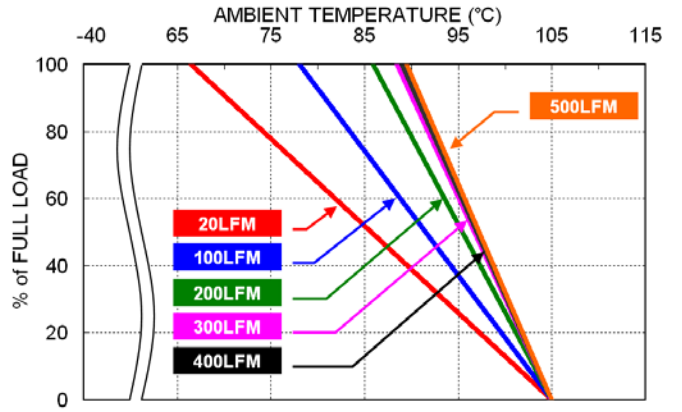All test conditions are at 25℃.The figures are identical for PMM20-12S24

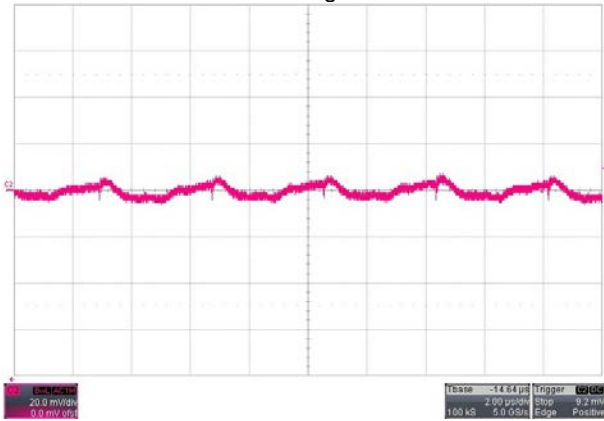Efficiency Versus Output Load

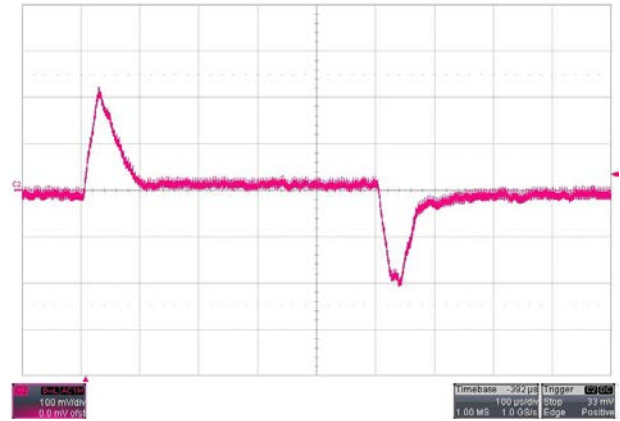Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

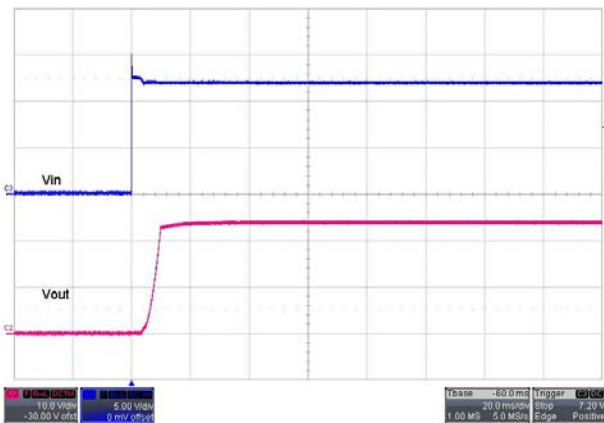Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

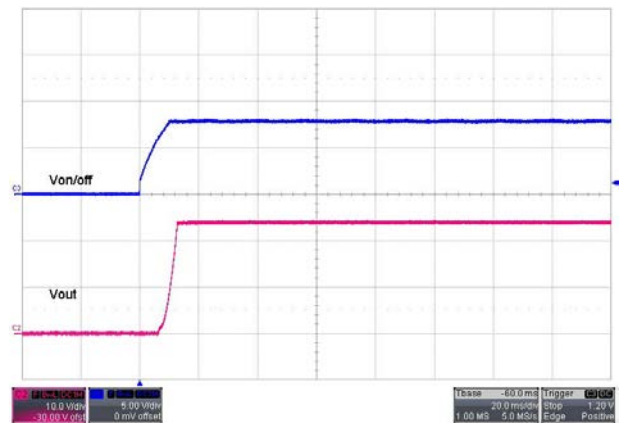All test conditions are at 25℃.The figures are identical for PMM20-12S24

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
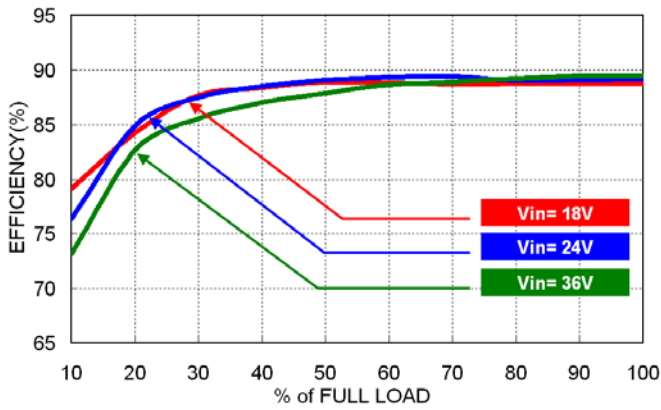100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
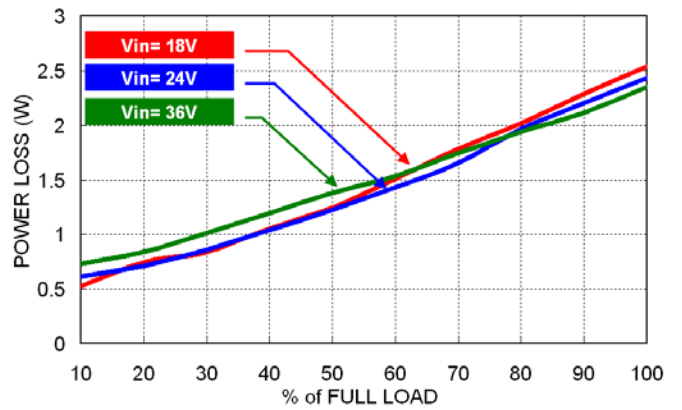Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
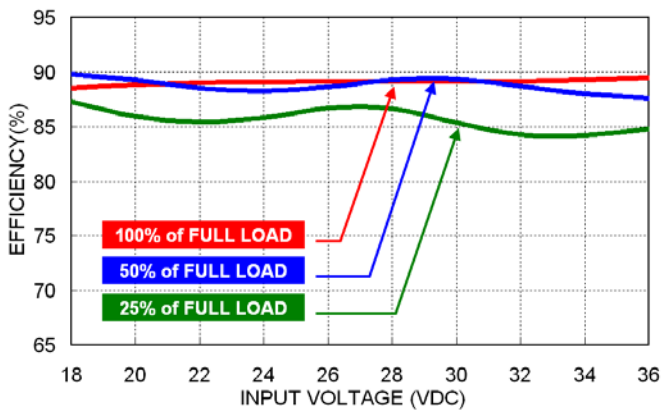Characteristic Curves

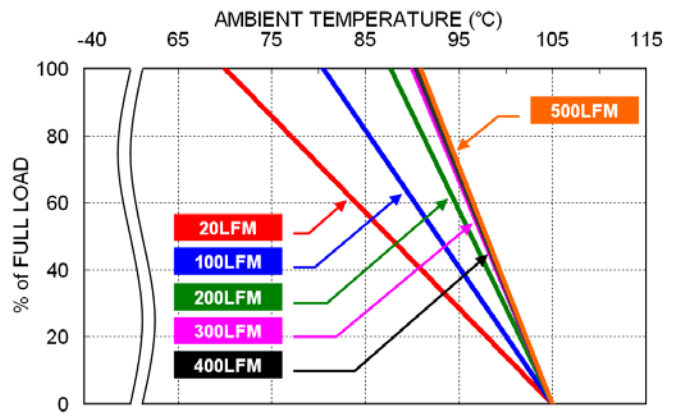All test conditions are at 25℃.The figures are identical for PMM20-24S05

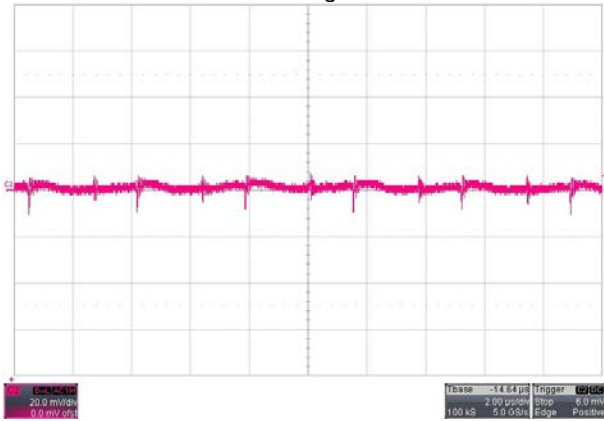Efficiency Versus Output Load

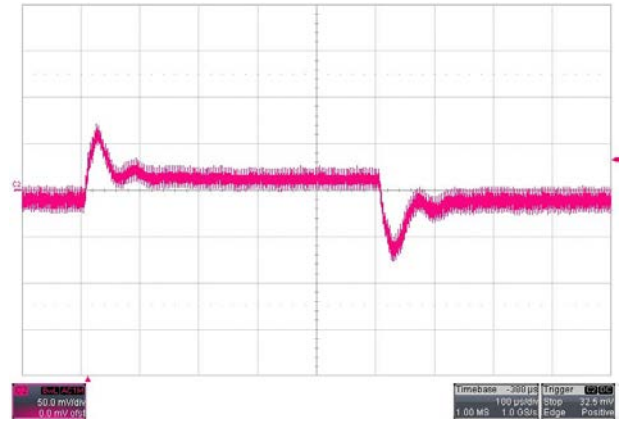Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

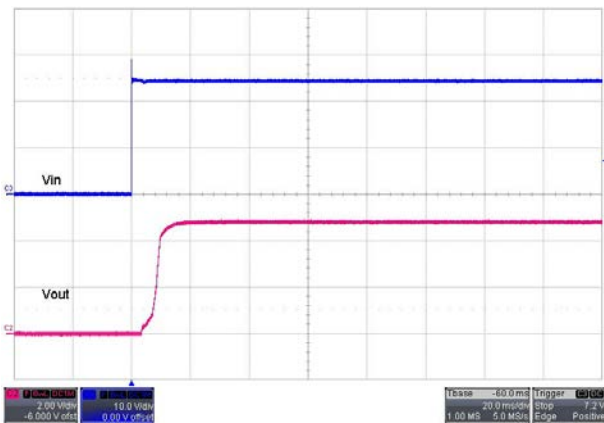Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

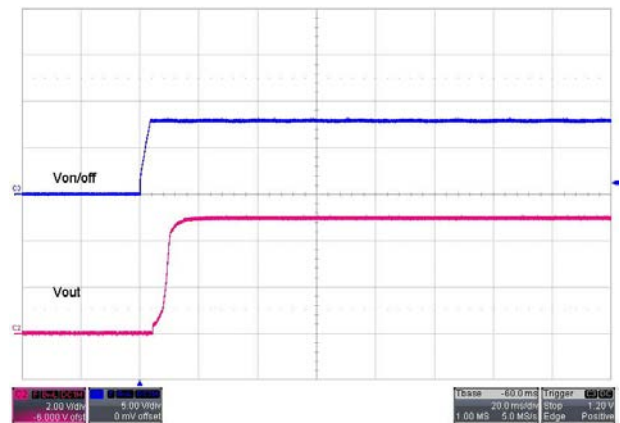All test conditions are at 25℃.The figures are identical for PMM20-24S05

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
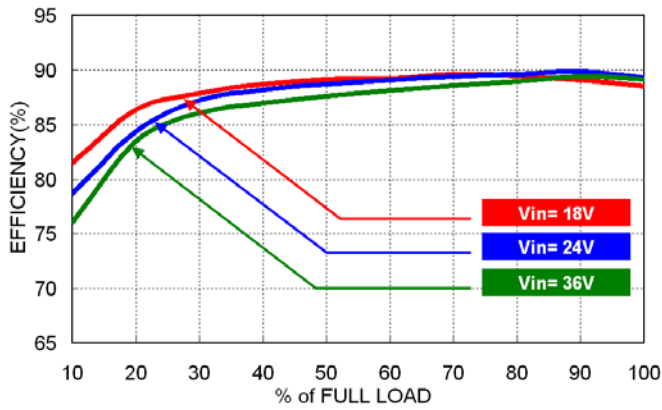100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
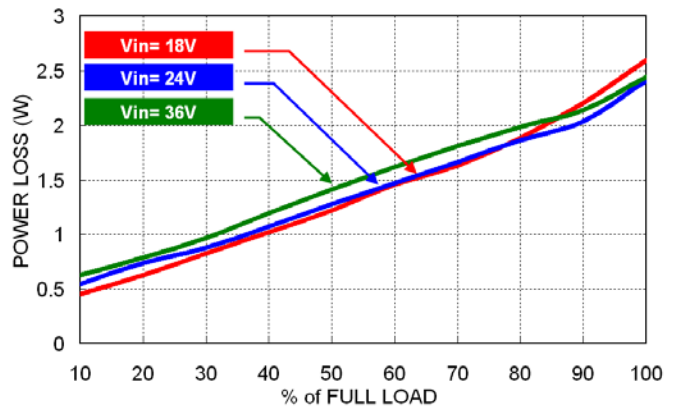Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
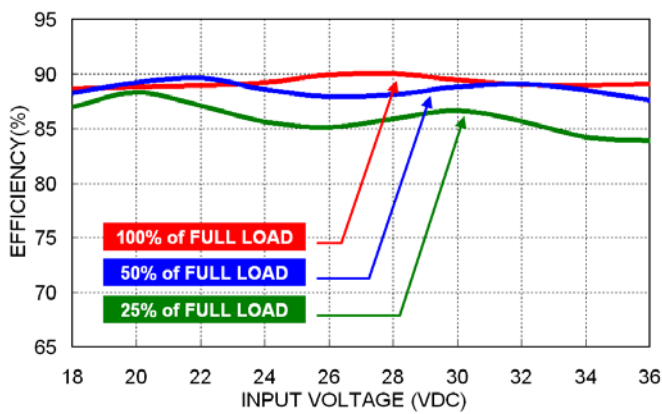Characteristic Curves

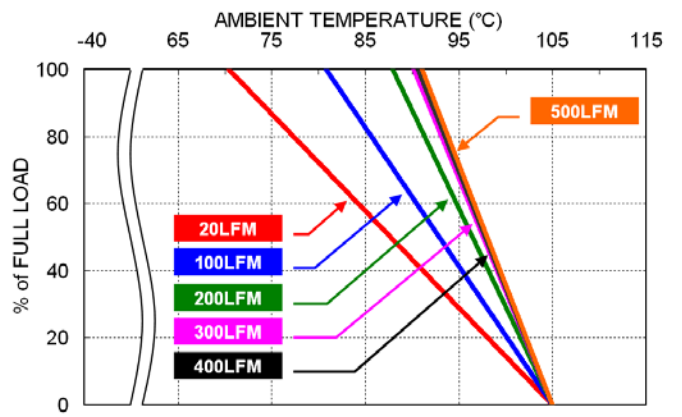All test conditions are at 25℃.The figures are identical for PMM20-24S12

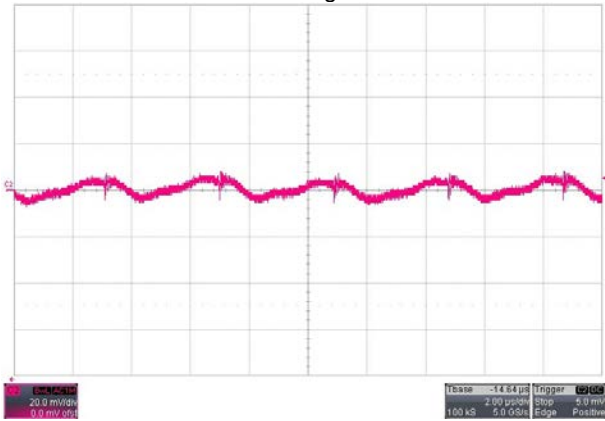Efficiency Versus Output Load

Power Dissipation Versus Output Load

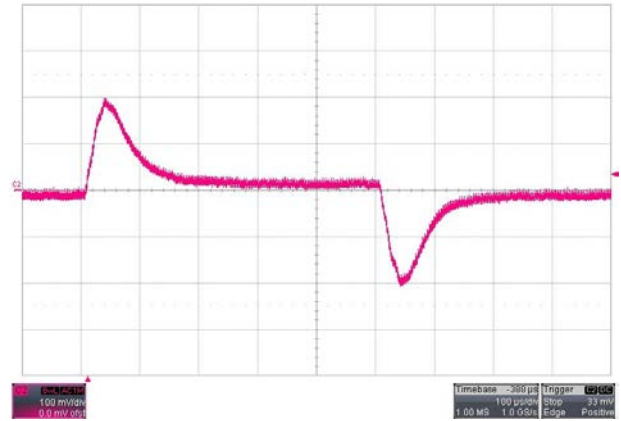Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
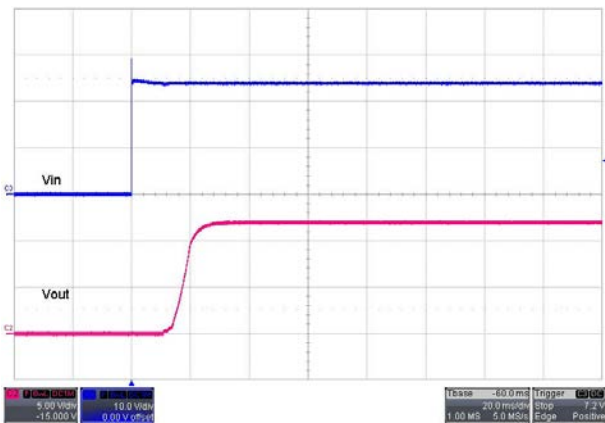Characteristic Curves

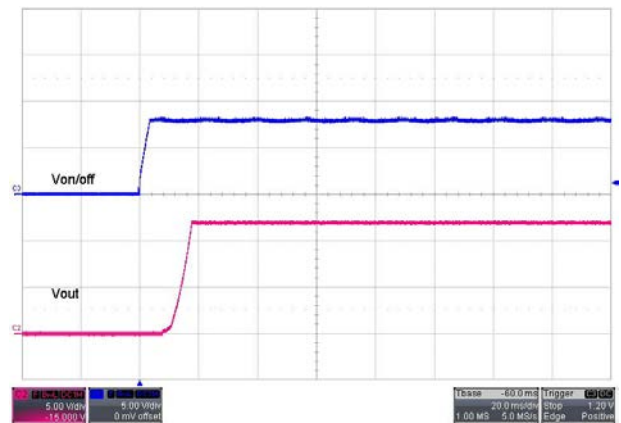All test conditions are at 25℃.The figures are identical for PMM20-24S12

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
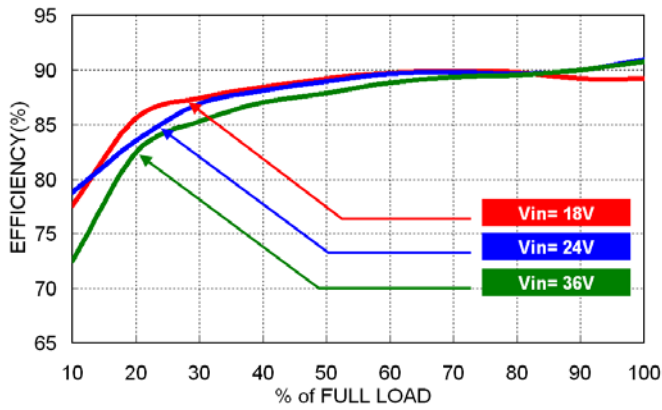Vin(nom), Full Load

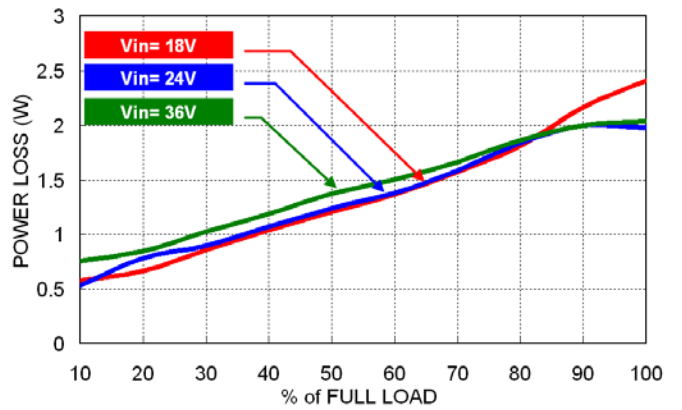Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
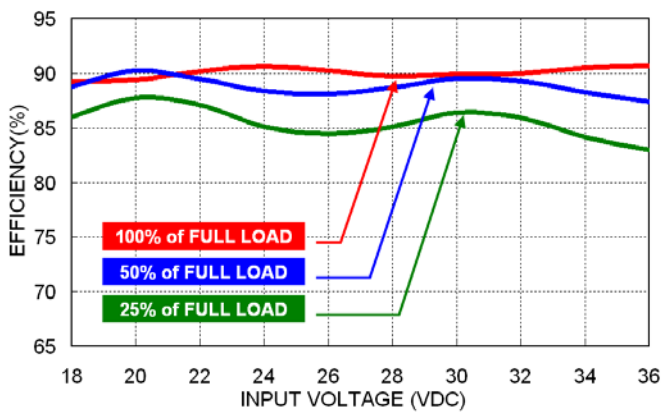Characteristic Curves

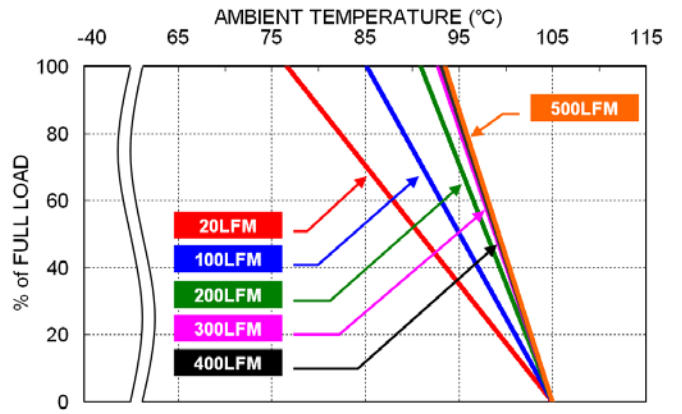All test conditions are at 25℃.The figures are identical for PMM20-24S15

Efficiency Versus Output Load

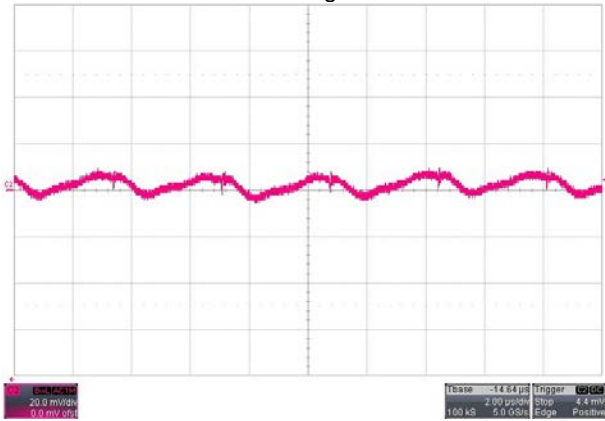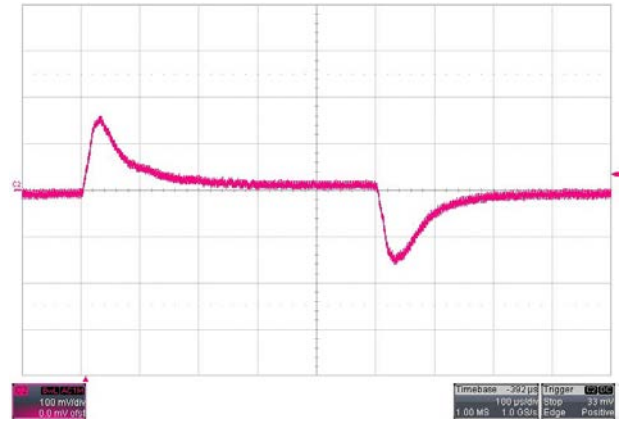Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
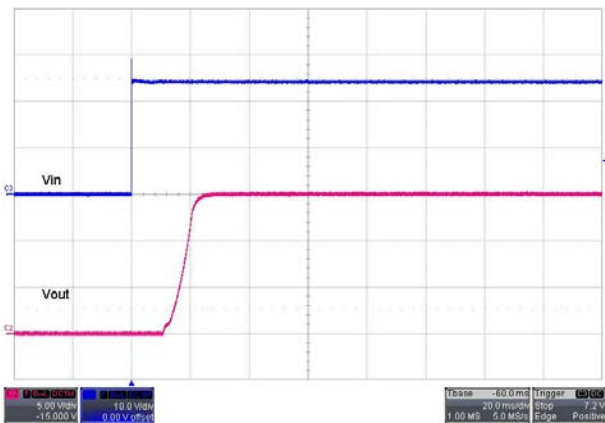Characteristic Curves

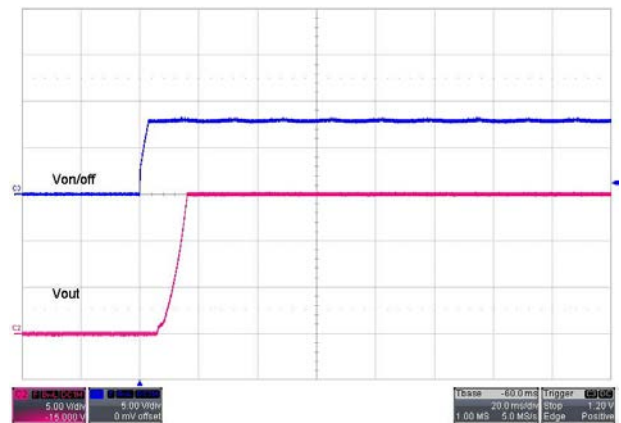All test conditions are at 25℃.The figures are identical for PMM20-24S15

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
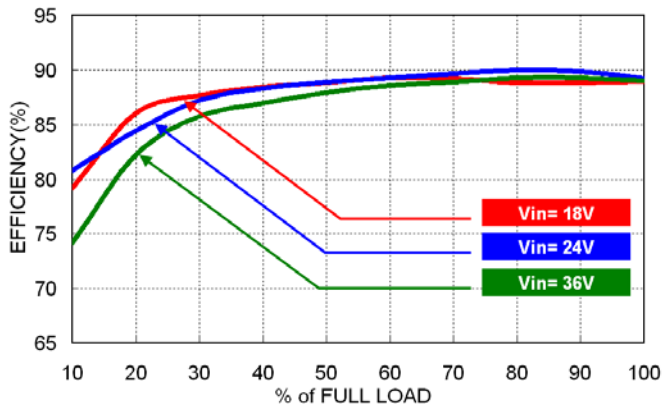100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
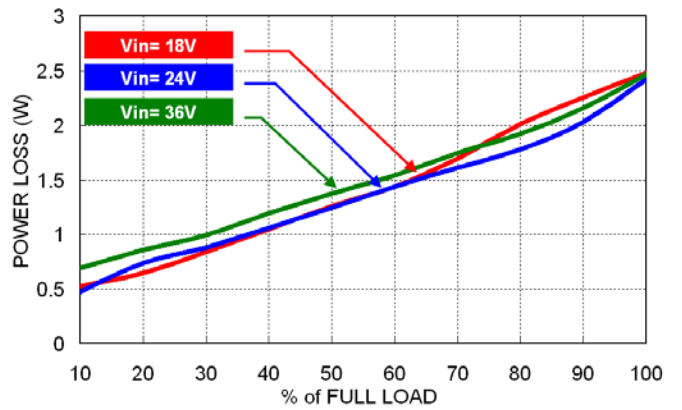Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
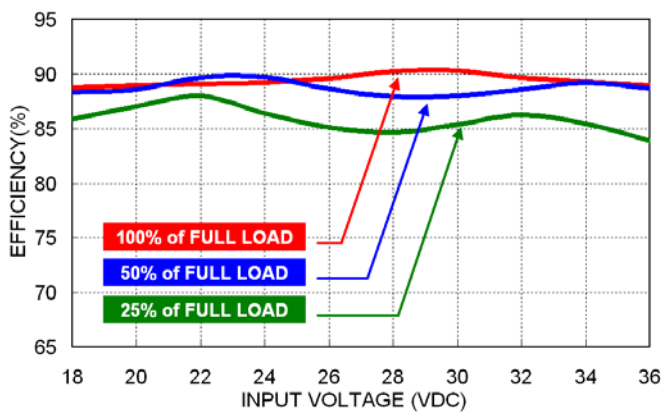Characteristic Curves

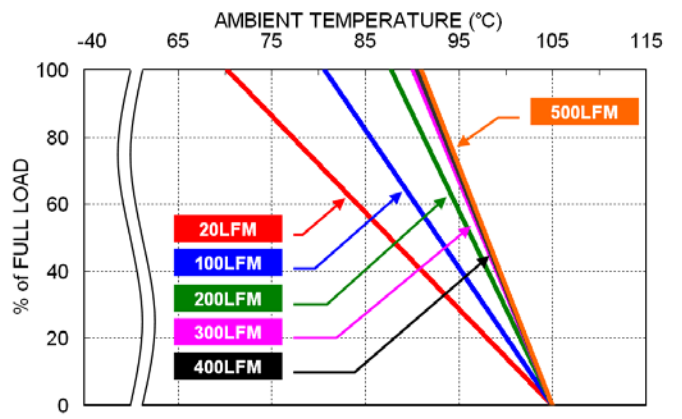All test conditions are at 25℃.The figures are identical for PMM20-24S24

Efficiency Versus Output Load

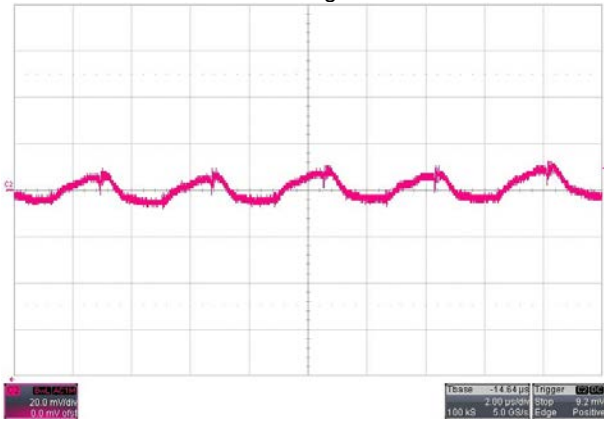Power Dissipation Versus Output Load

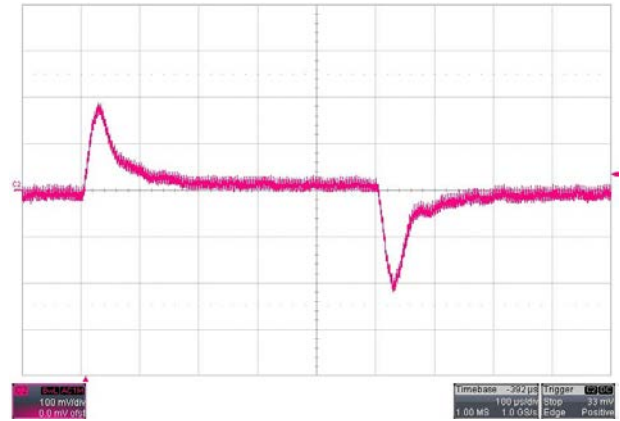Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

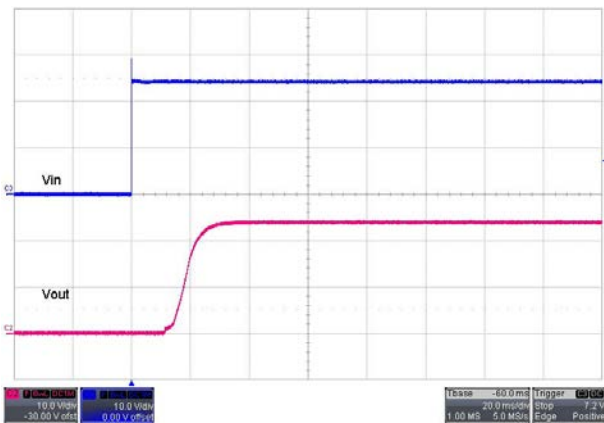Medical DC/DC Converter

Characteristic Curves

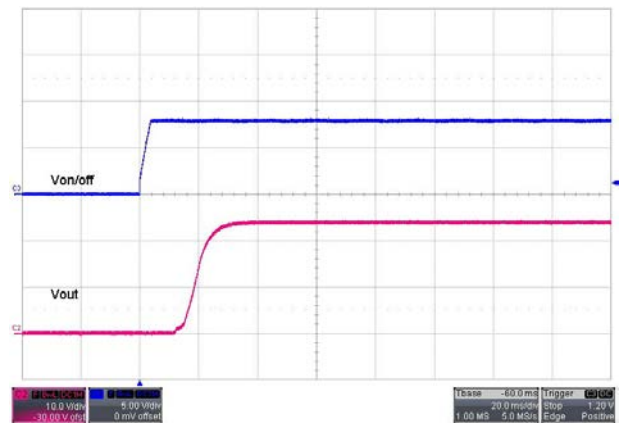All test conditions are at 25℃.The figures are identical for PMM20-24S24

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
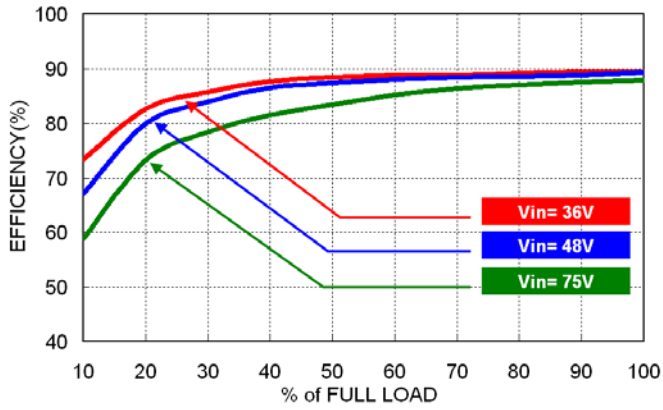100% to 75% to 100% of Full Load ; Vin(nom)

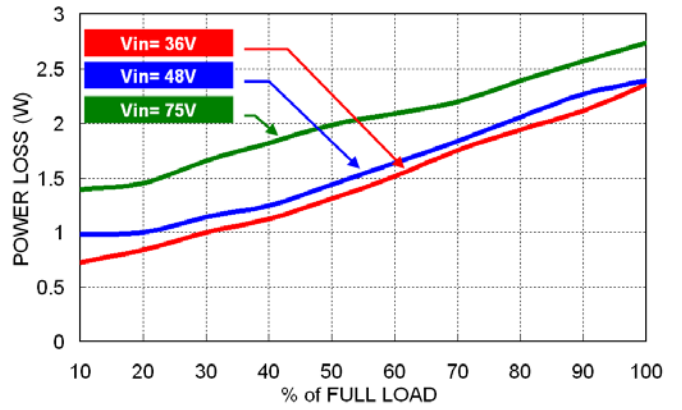Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
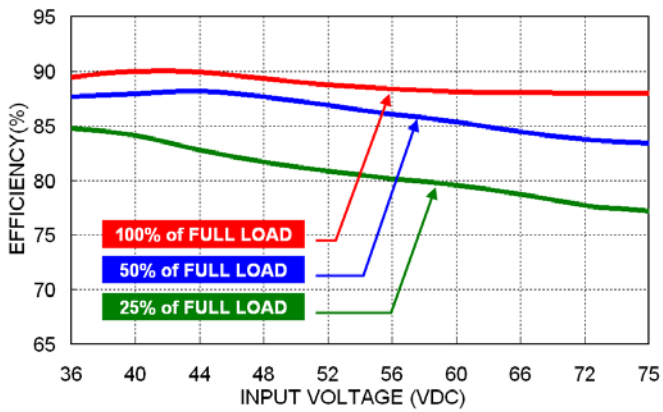Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

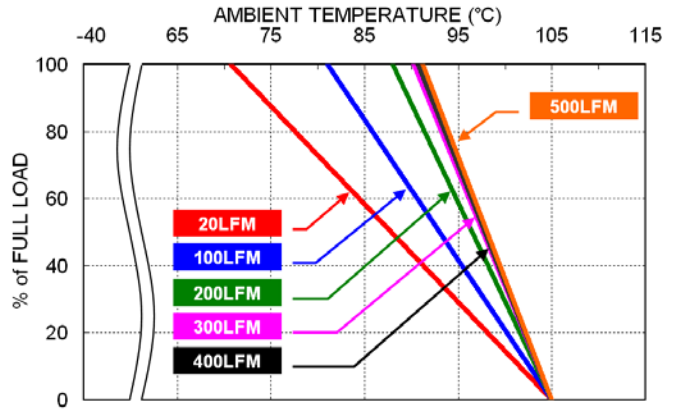All test conditions are at 25℃.The figures are identical for PMM20-48S05

Efficiency Versus Output Load

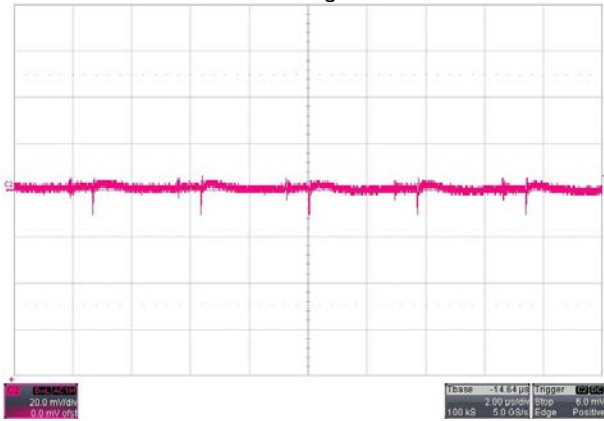Power Dissipation Versus Output Load

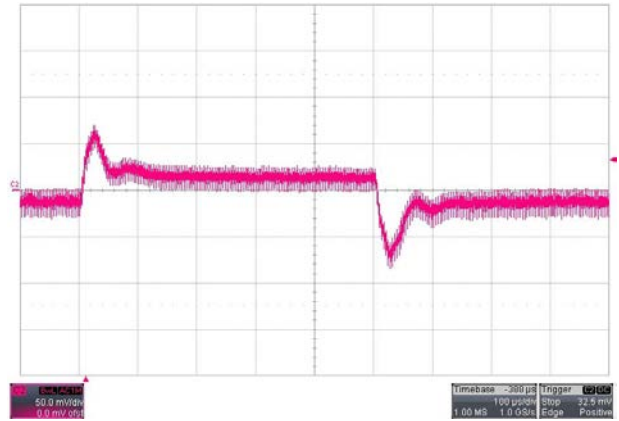Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

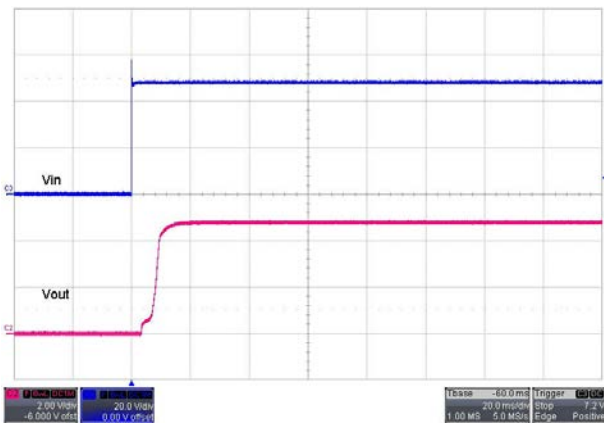Medical DC/DC Converter

Characteristic Curves

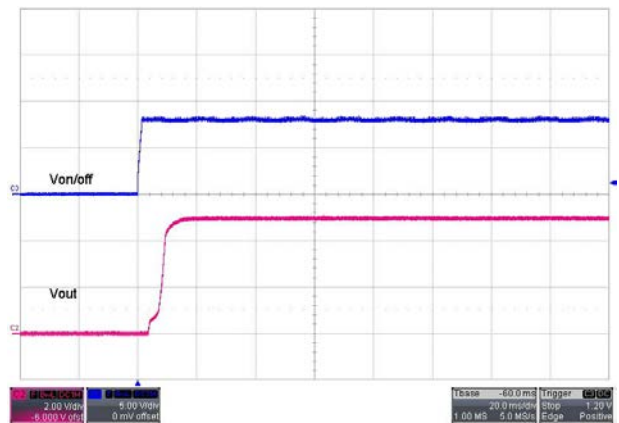All test conditions are at 25℃.The figures are identical for PMM20-48S05

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
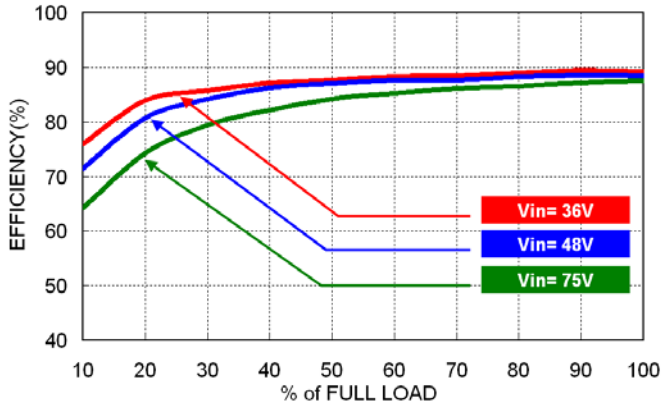100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
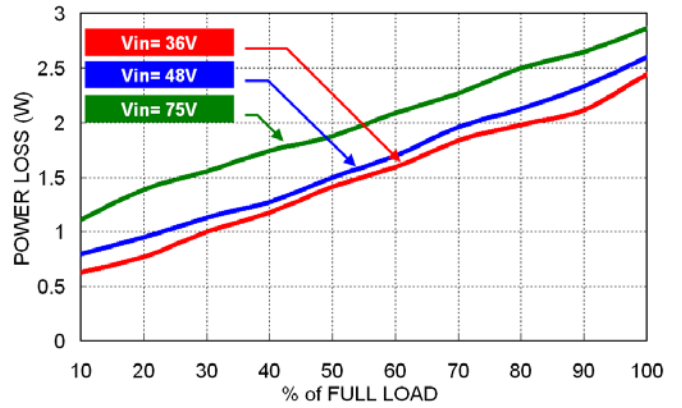Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
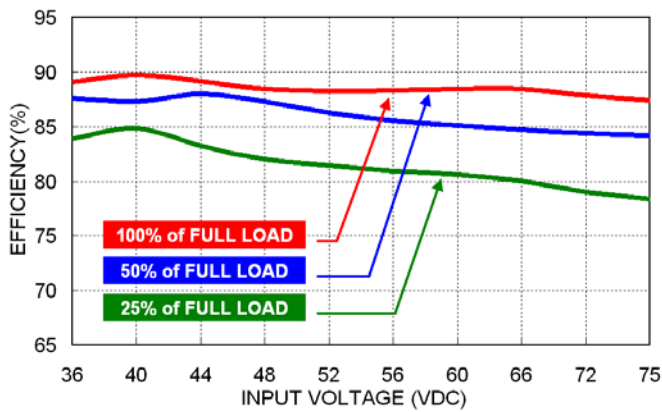Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

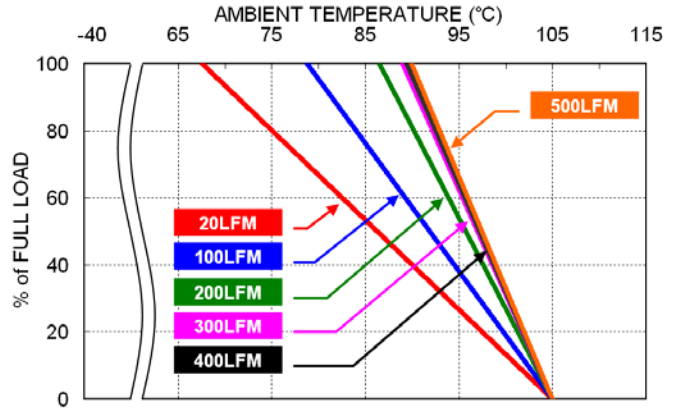All test conditions are at 25℃.The figures are identical for PMM20-48S12

Efficiency Versus Output Load

Power Dissipation Versus Output Load

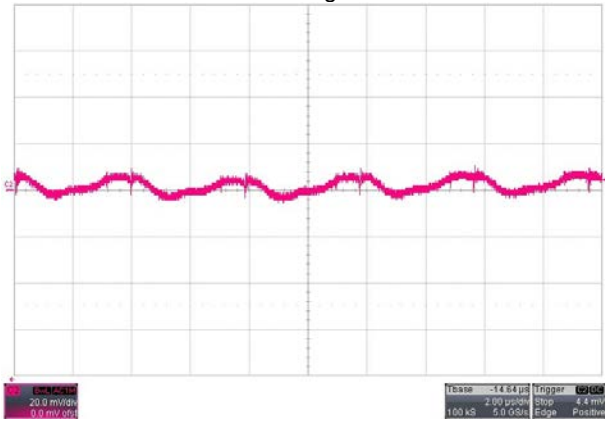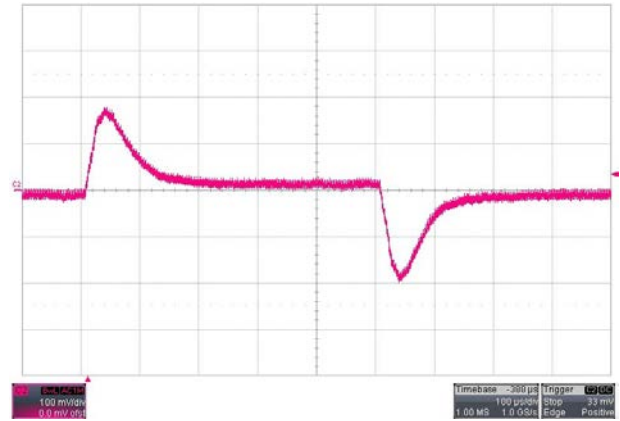Efficiency Versus Input Voltage.

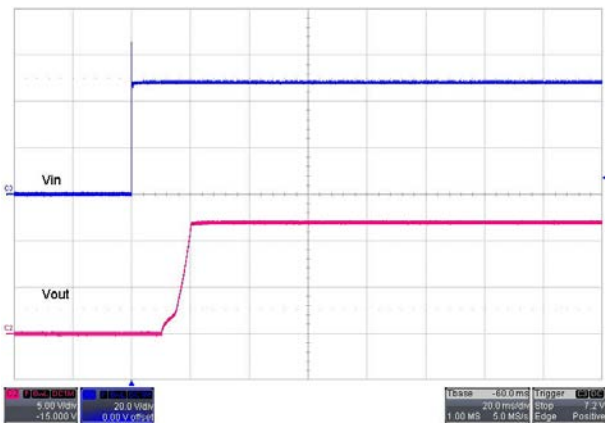Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

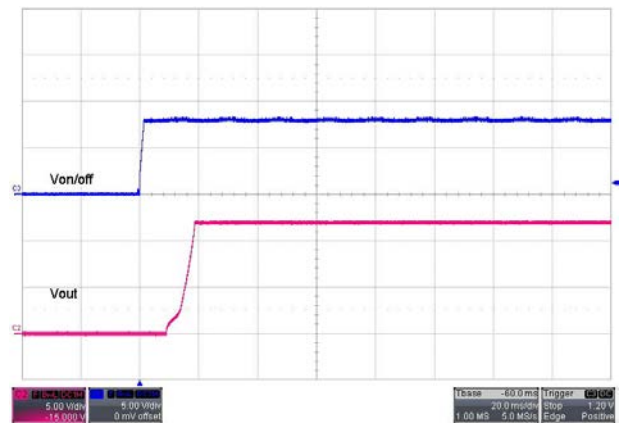All test conditions are at 25℃.The figures are identical for PMM20-48S12

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

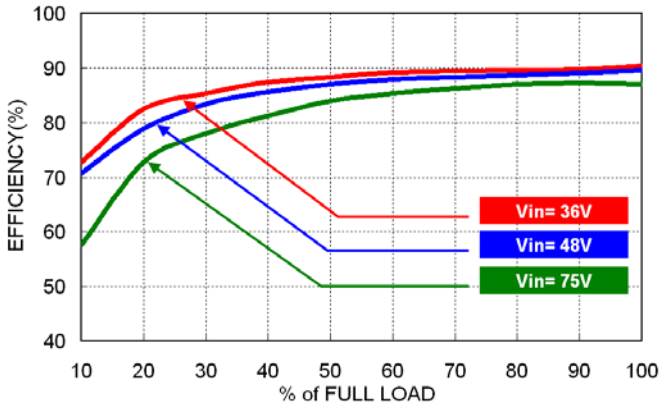Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
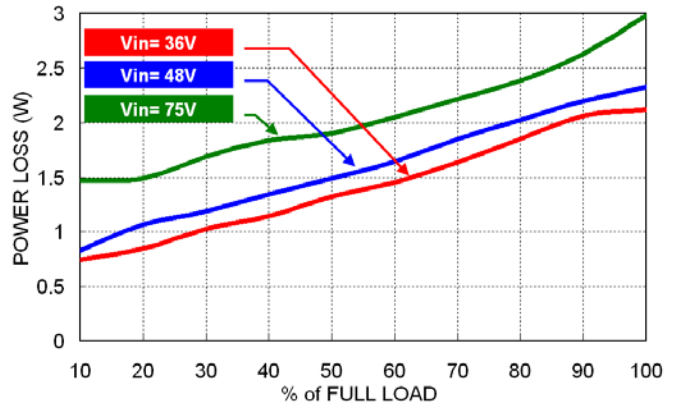Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
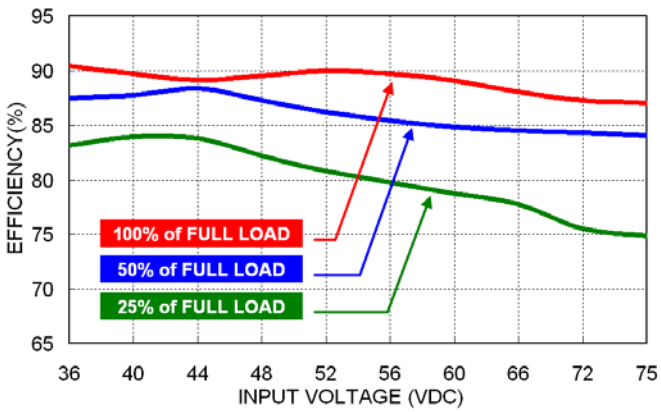Characteristic Curves

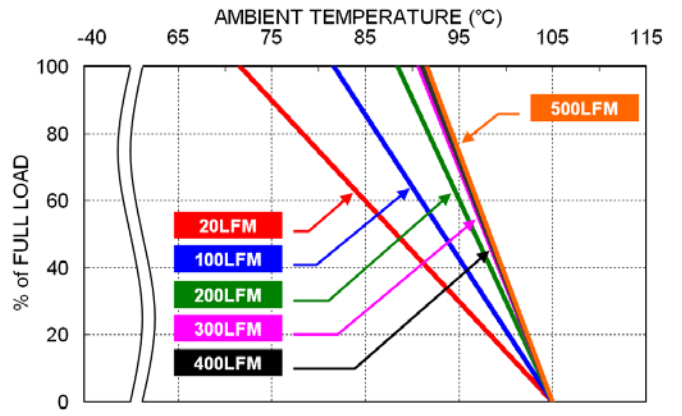All test conditions are at 25℃.The figures are identical for PMM20-48S15

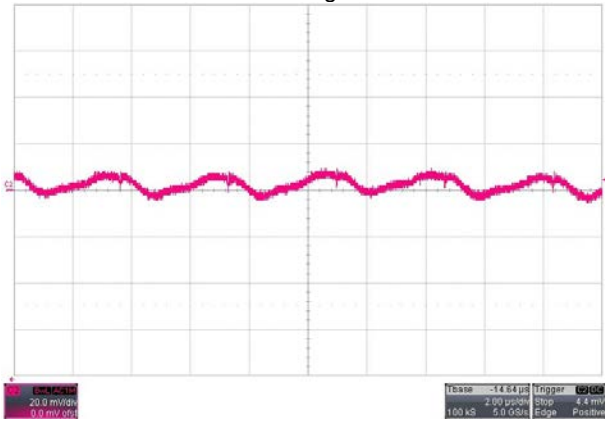Efficiency Versus Output Load

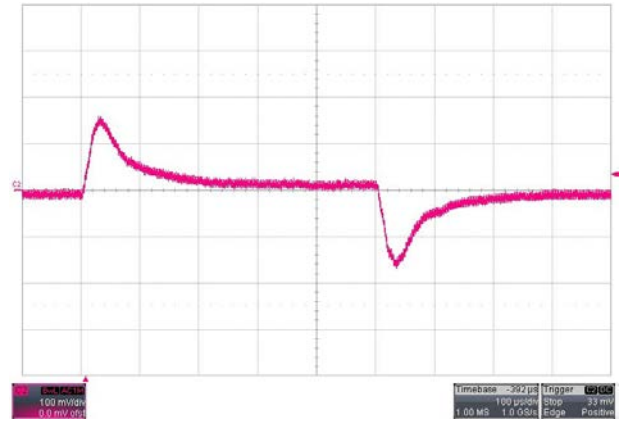Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

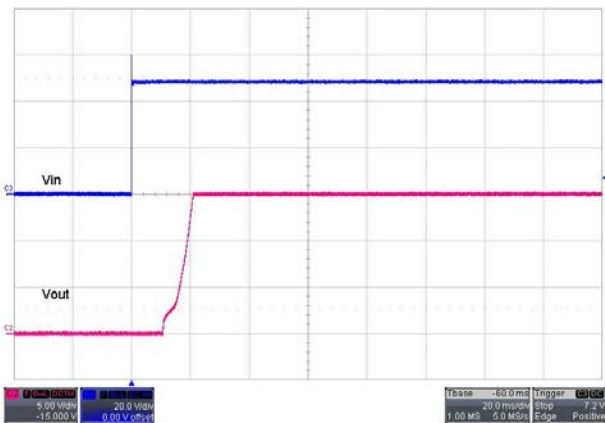Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

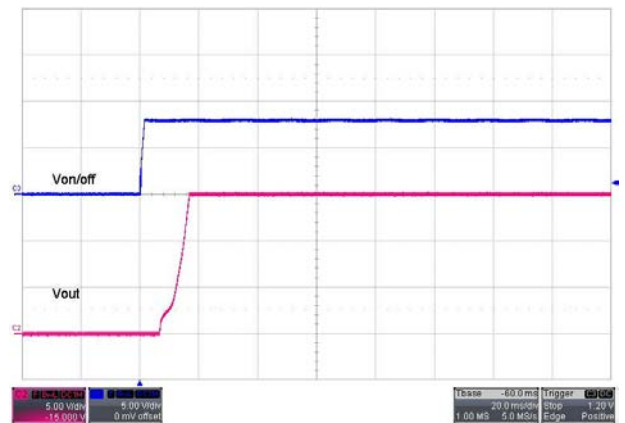All test conditions are at 25℃. The figures are identical for PMM20-48S15

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
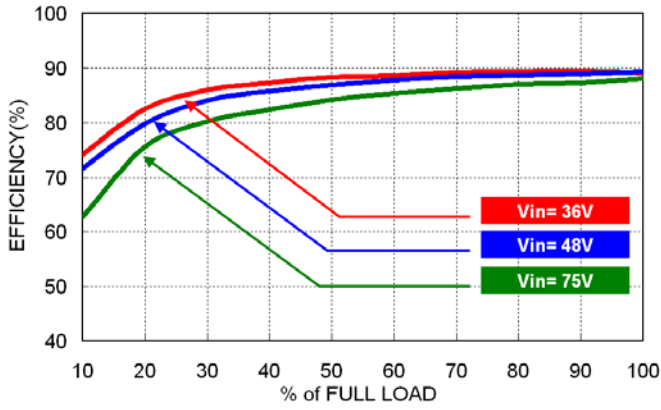100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
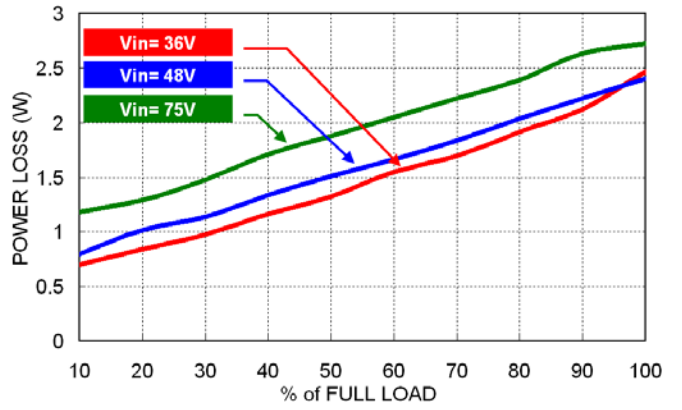Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
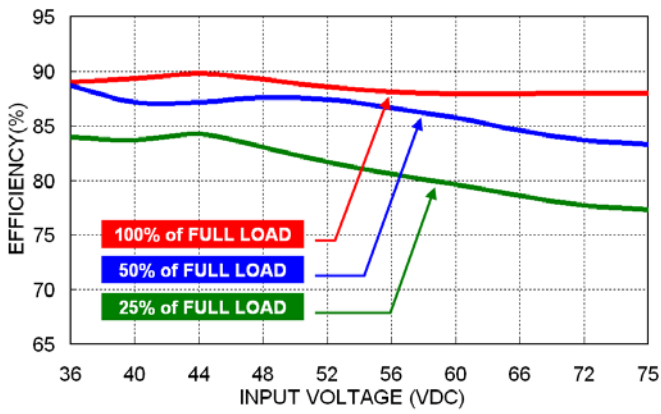Characteristic Curves

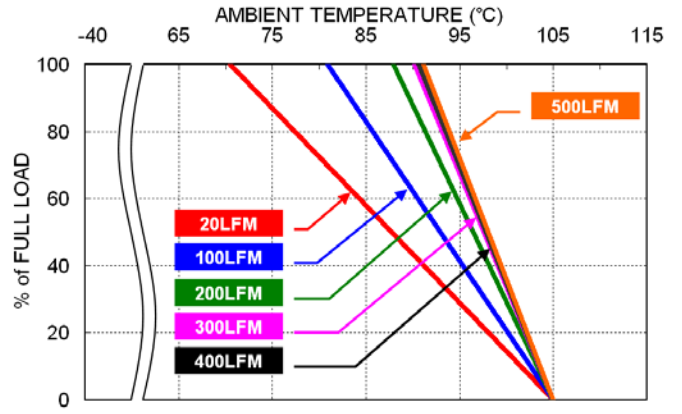All test conditions are at 25℃.The figures are identical for PMM20-48S24

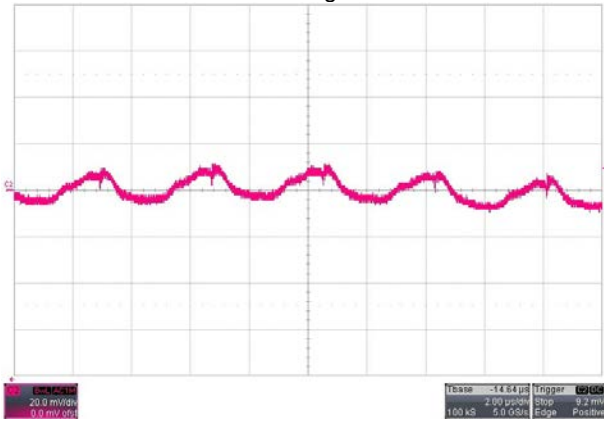Efficiency Versus Output Load

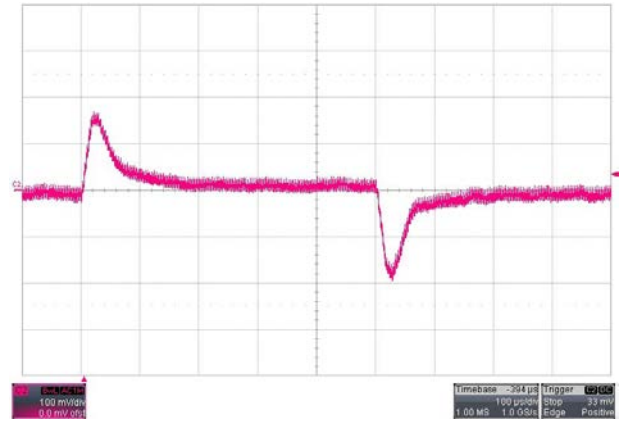Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

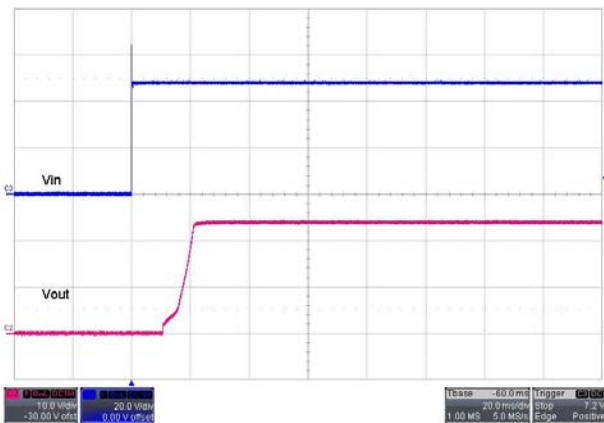Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

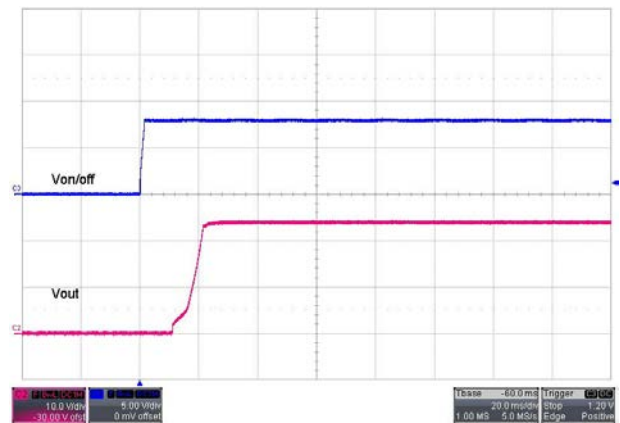All test conditions are at 25℃.The figures are identical for PMM20-48S24

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
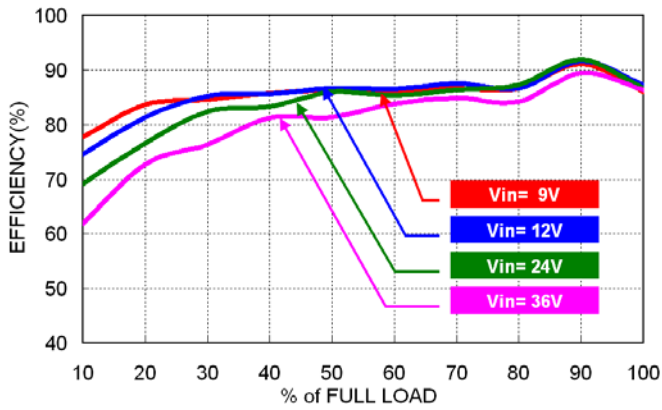100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
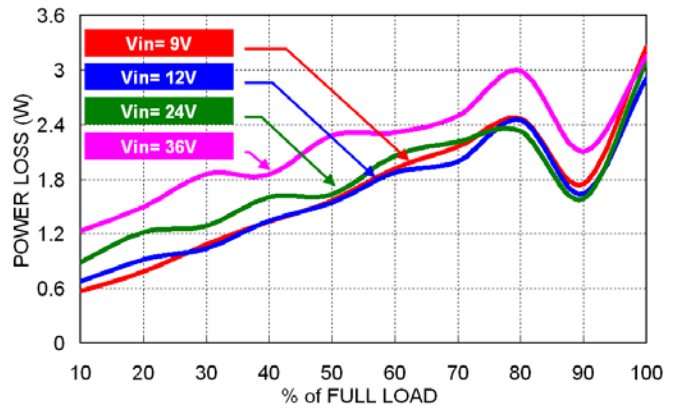Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
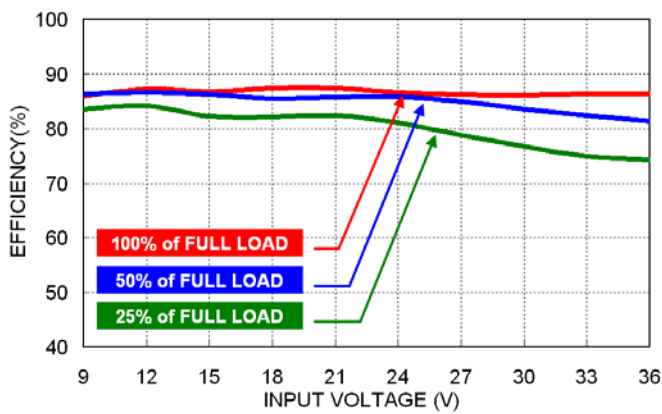Characteristic Curves

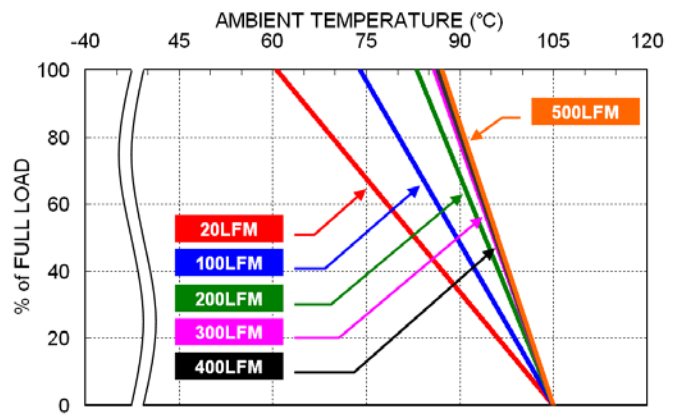All test conditions are at 25℃.The figures are identical for PMM20-24S05W

Efficiency Versus Output Load

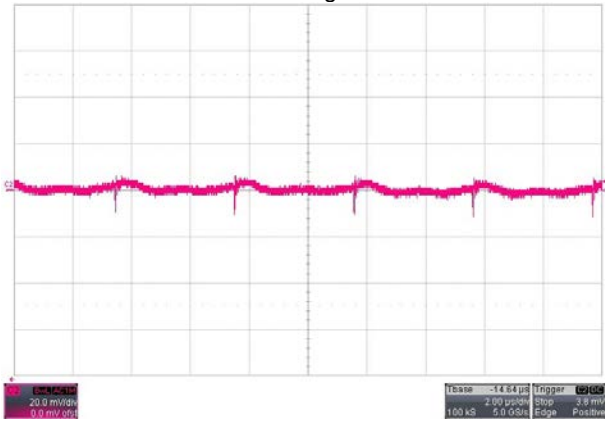Power Dissipation Versus Output Load
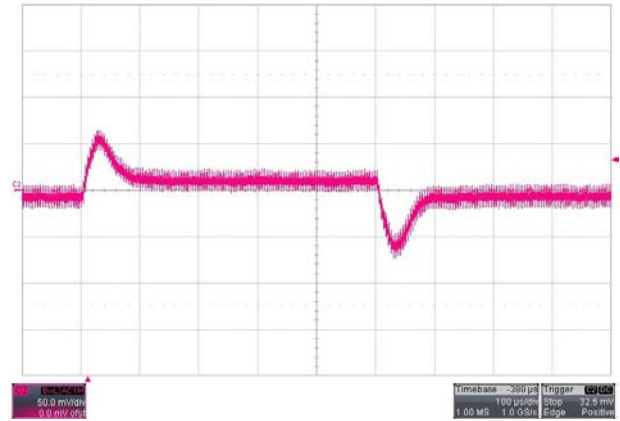

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

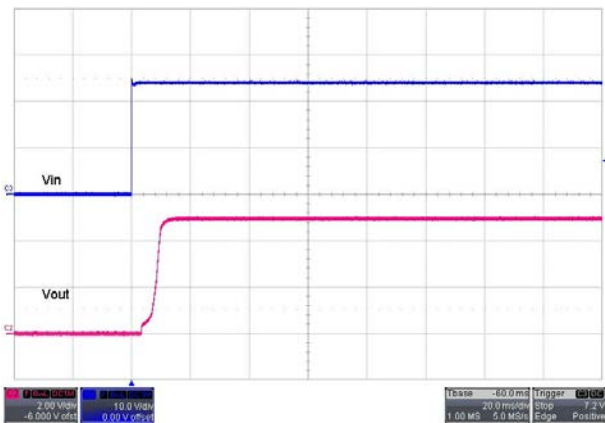Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-24S05W
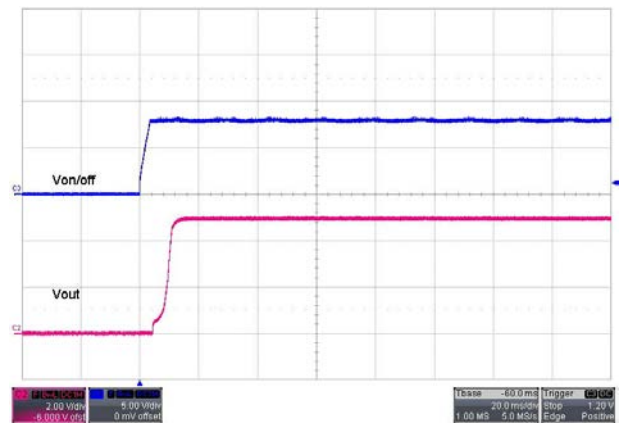

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
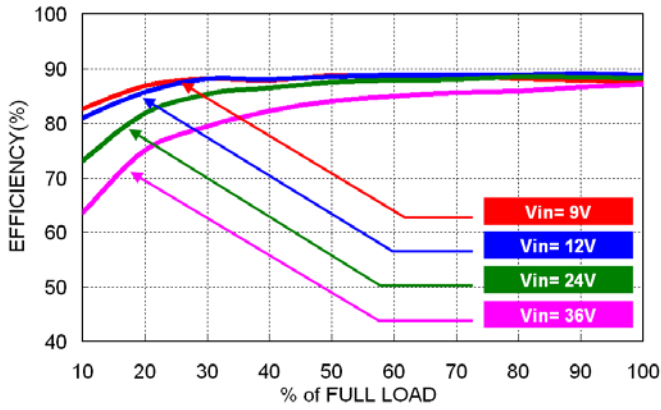100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
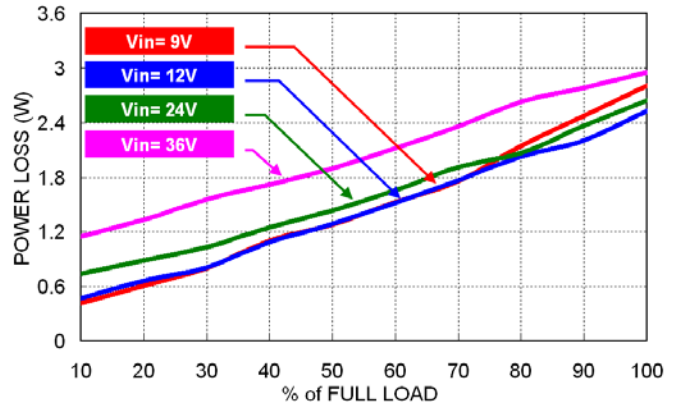Vin(nom), Full Load

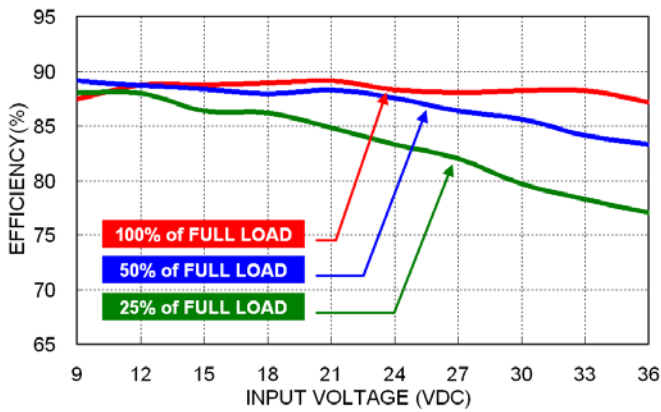Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-24S12W
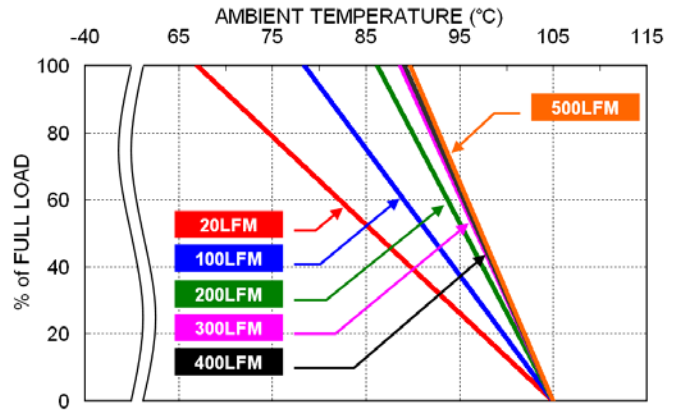

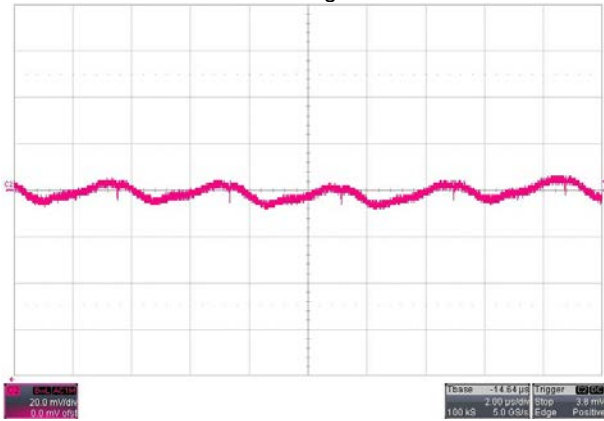Efficiency Versus Output Load

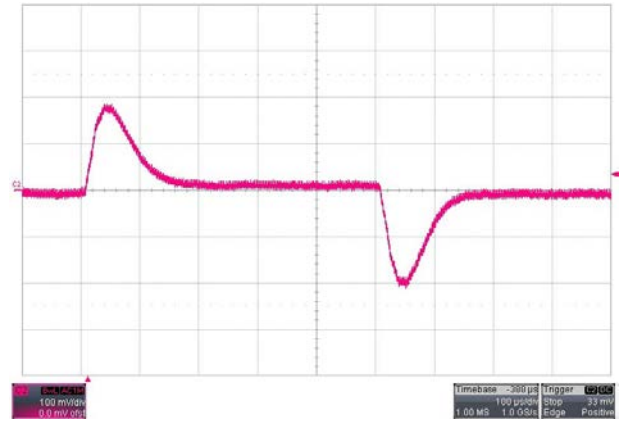Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)
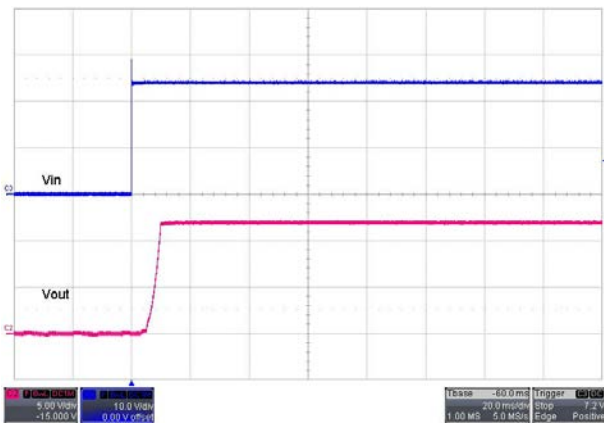
PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-24S12W
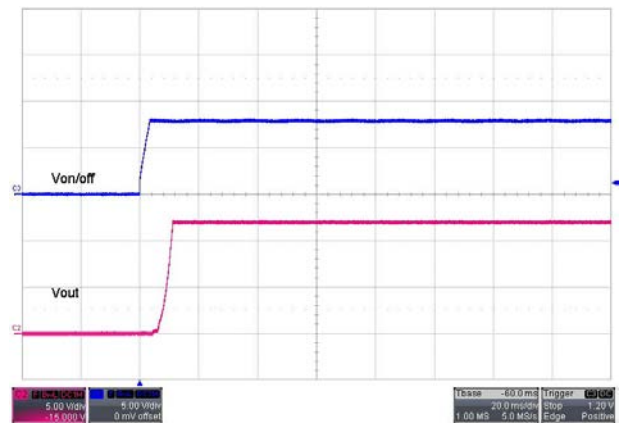

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

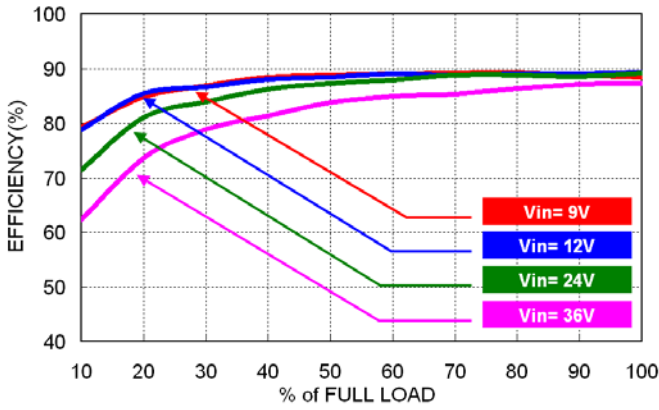Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
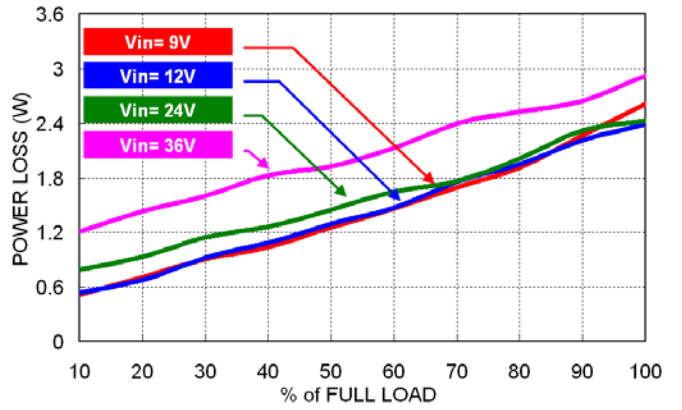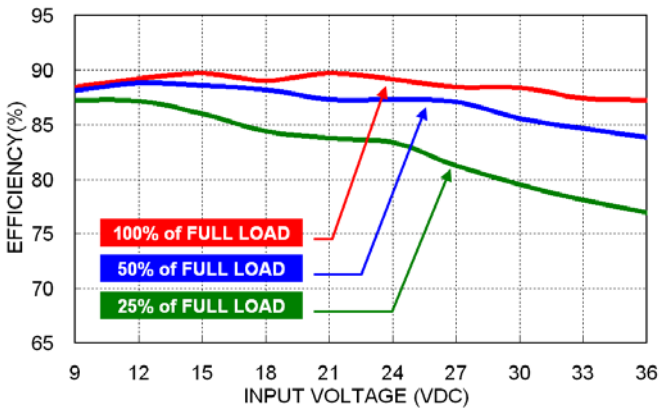Vin(nom), Full Load

All test conditions are at 25℃.The figures are identical for PMM20-24S15W
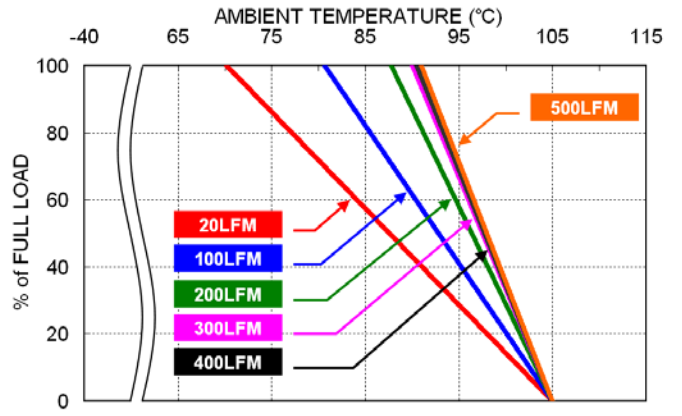

Efficiency Versus Output Load
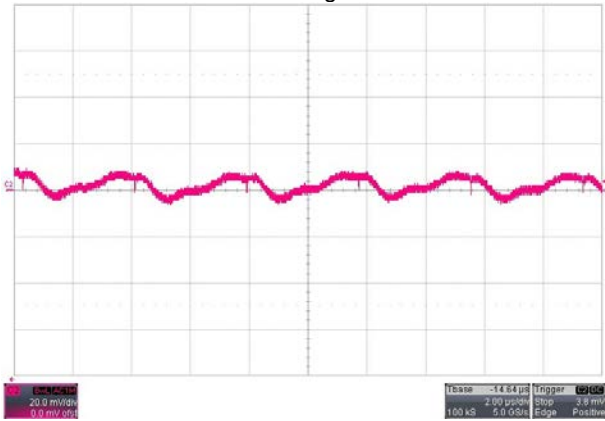

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

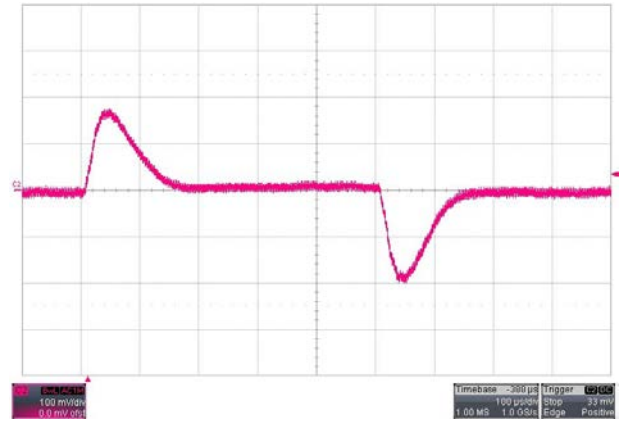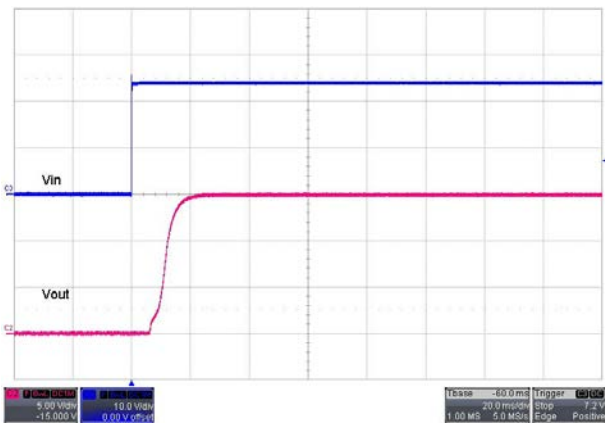Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

All test conditions are at 25℃.The figures are identical for PMM20-24S15W
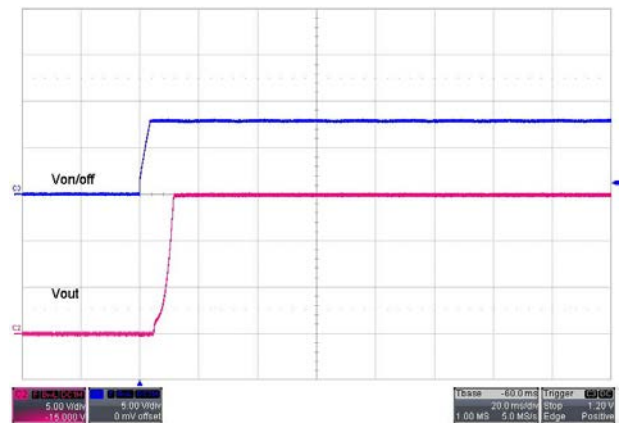

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
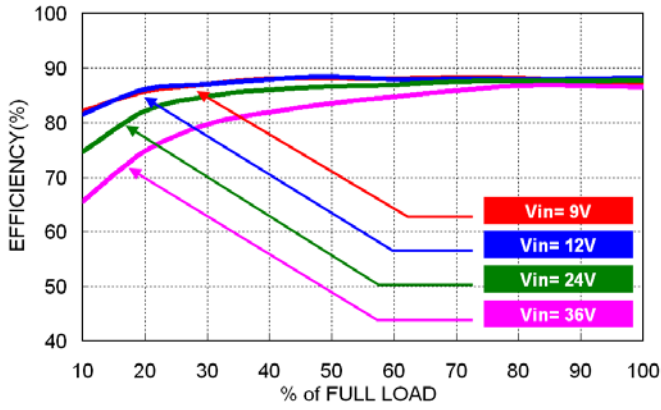100% to 75% to 100% of Full Load ; Vin(nom)

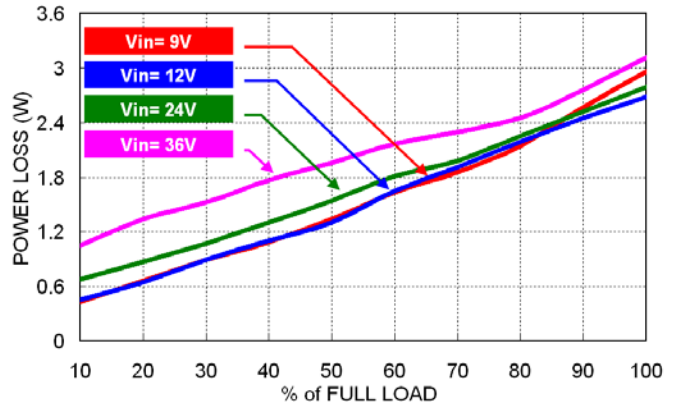Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
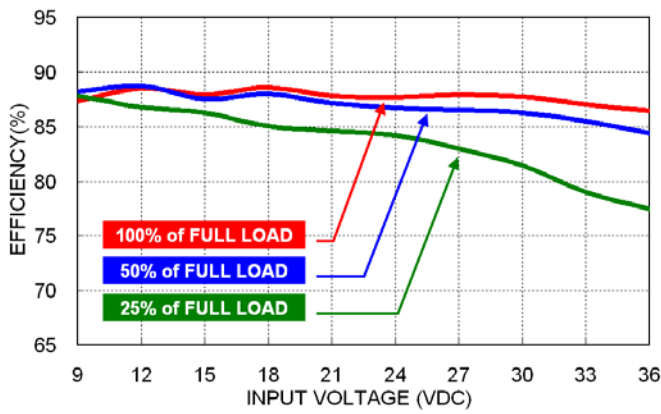Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-24S24W
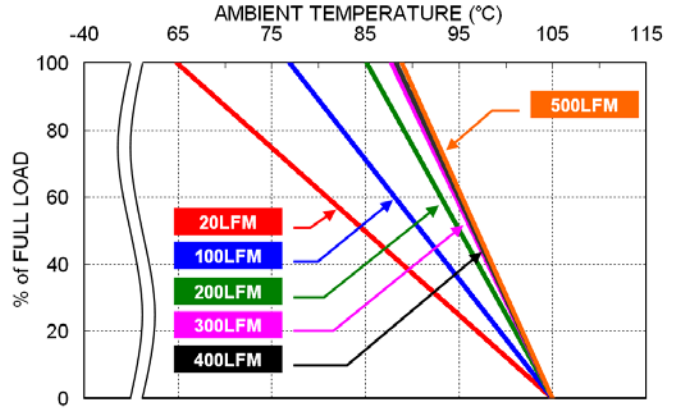

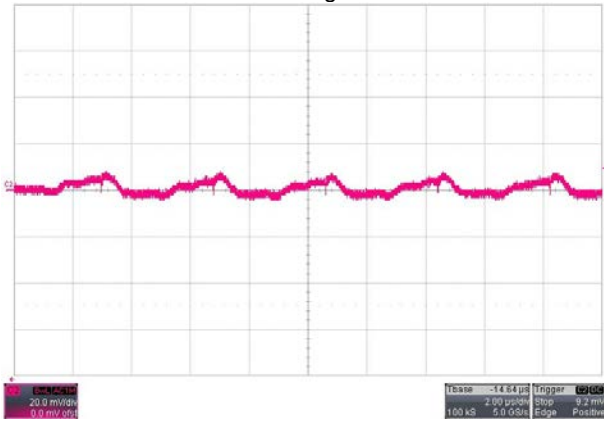Efficiency Versus Output Load

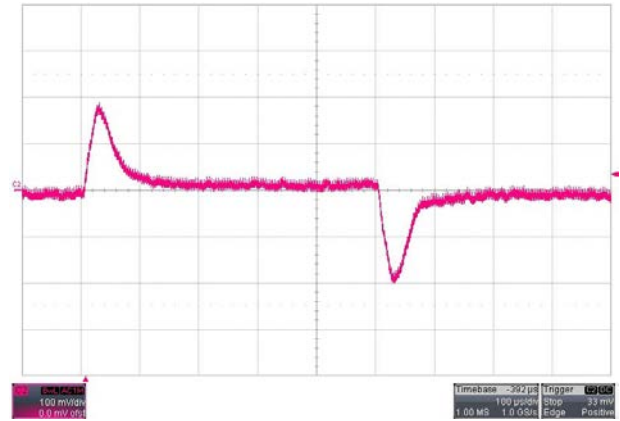Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

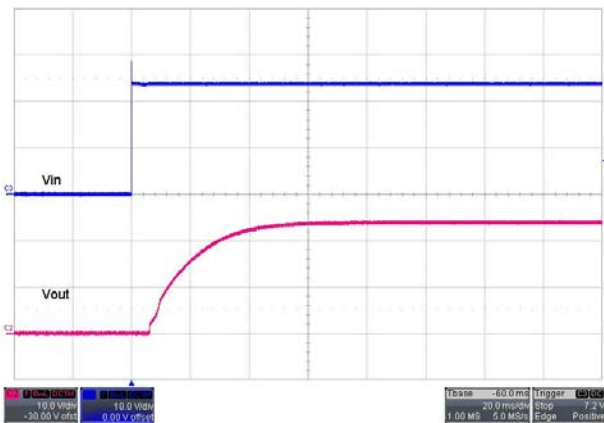Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-24S24W
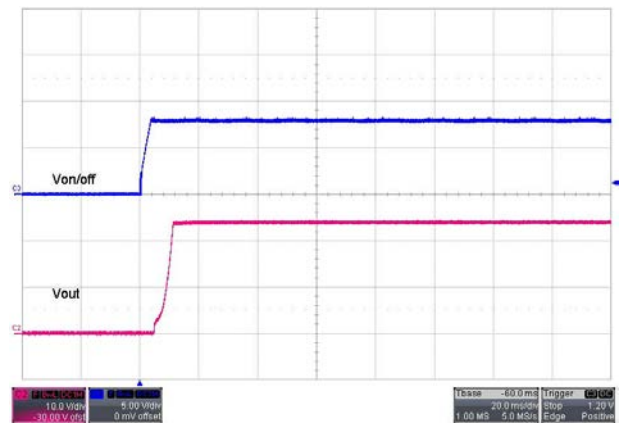

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
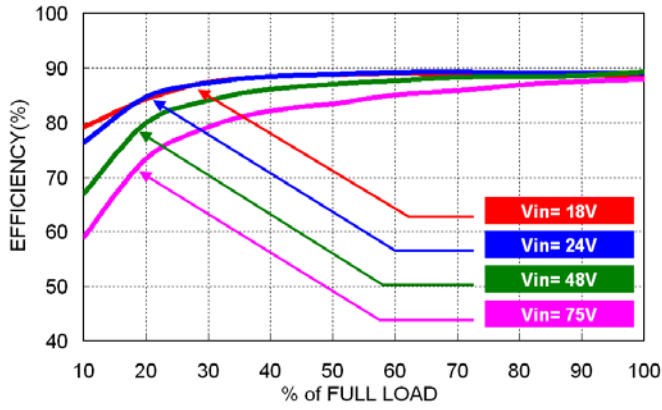100% to 75% to 100% of Full Load ; Vin(nom)

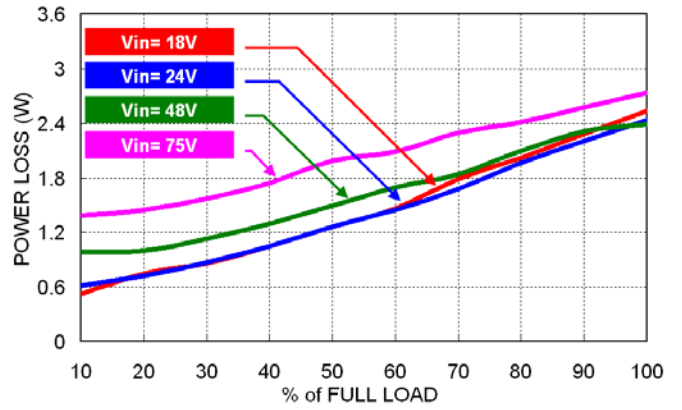Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
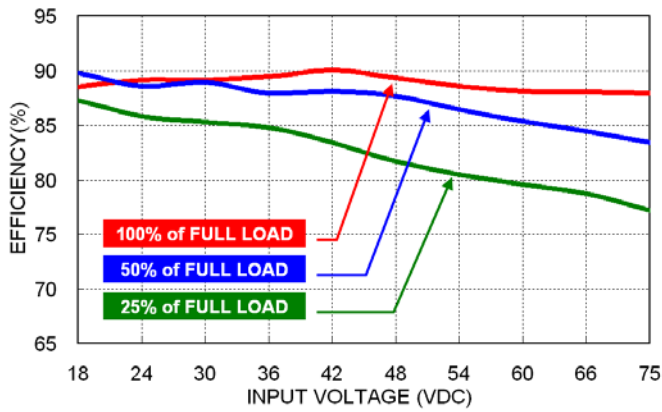Characteristic Curves

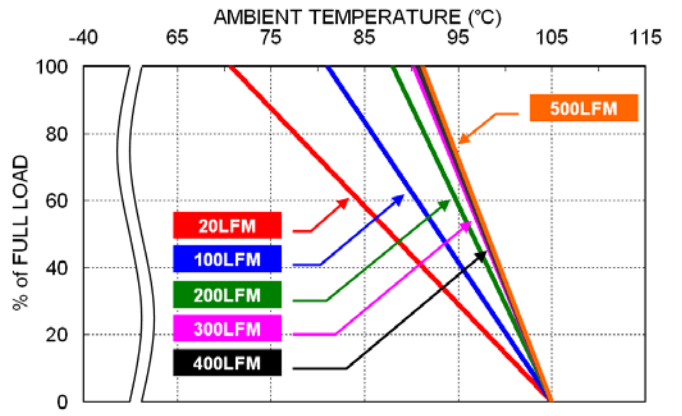All test conditions are at 25℃.The figures are identical for PMM20-48S05W

Efficiency Versus Output Load
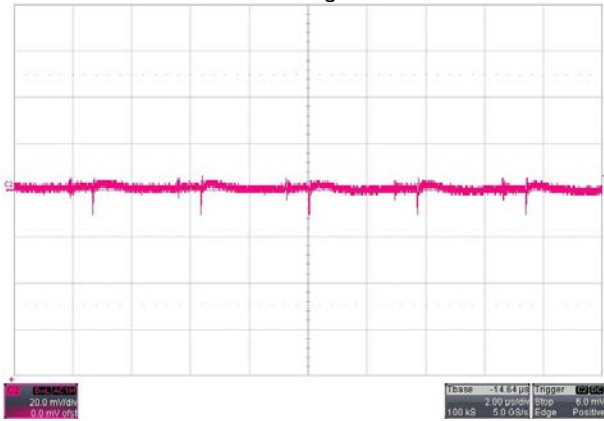

Power Dissipation Versus Output Load

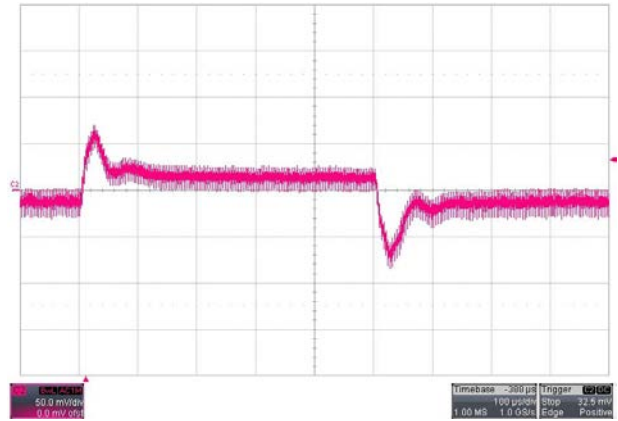Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

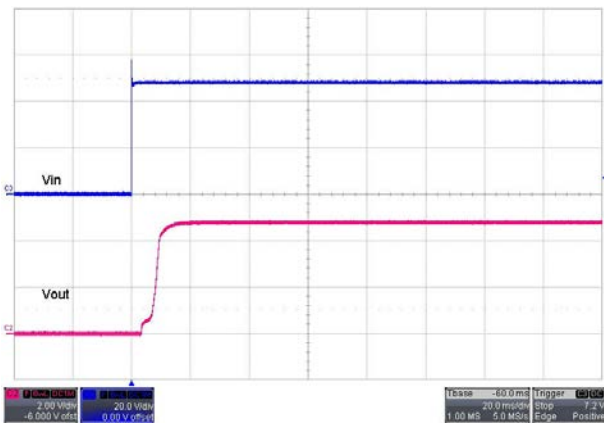Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-48S05W
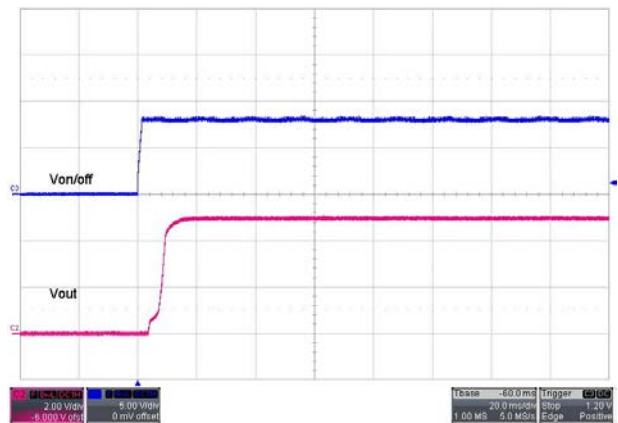

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
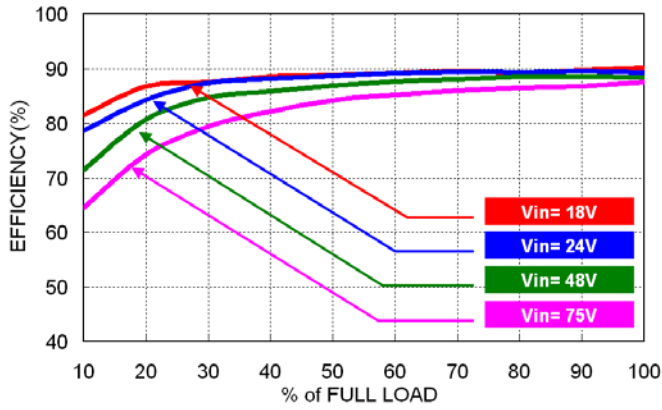100% to 75% to 100% of Full Load ; Vin(nom)

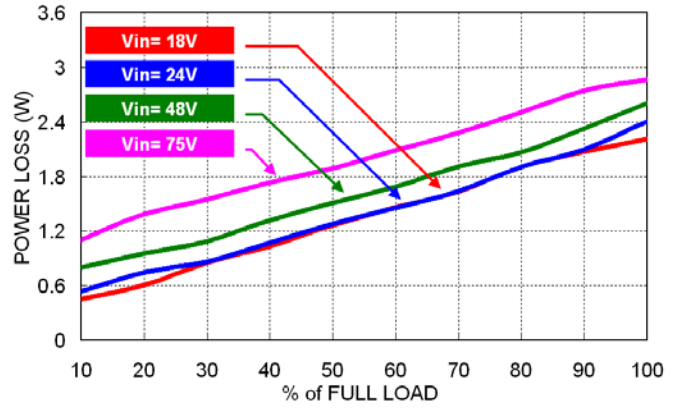Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
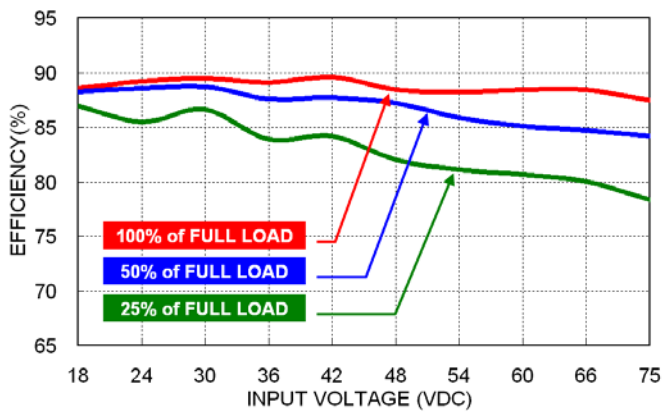Medical DC/DC Converter
Characteristic Curves

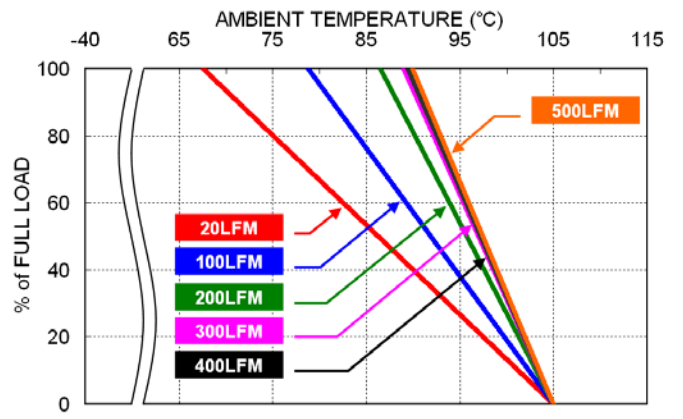All test conditions are at 25℃.The figures are identical for PMM20-48S12W

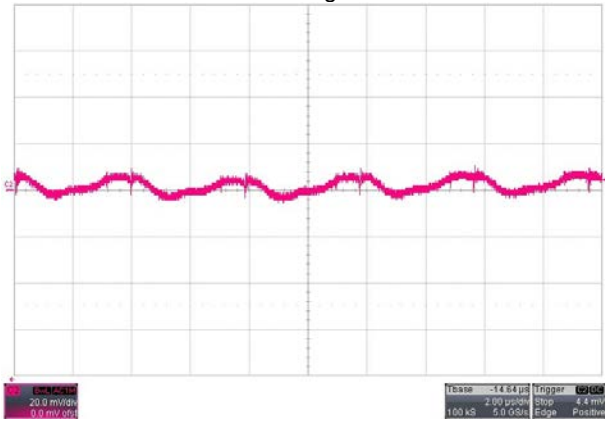Efficiency Versus Output Load

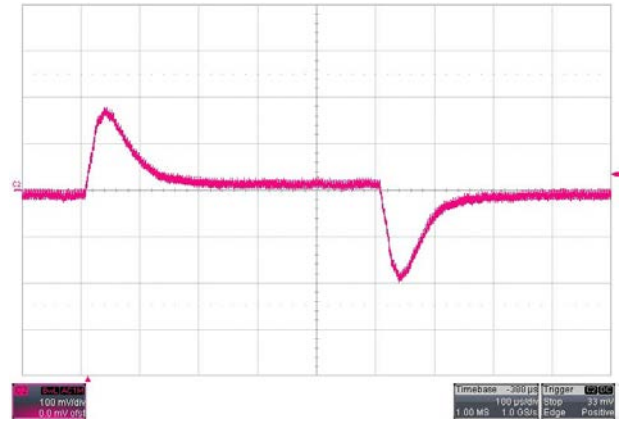Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

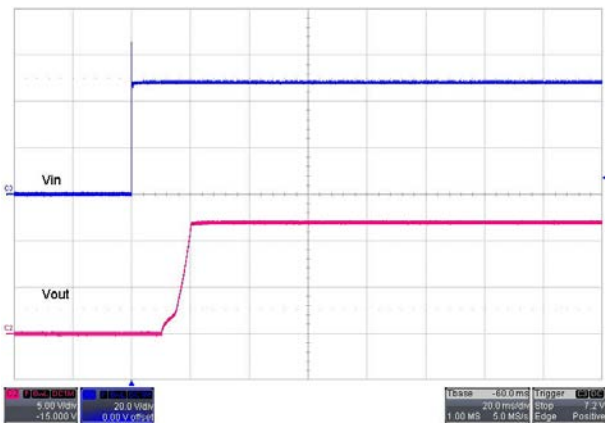Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

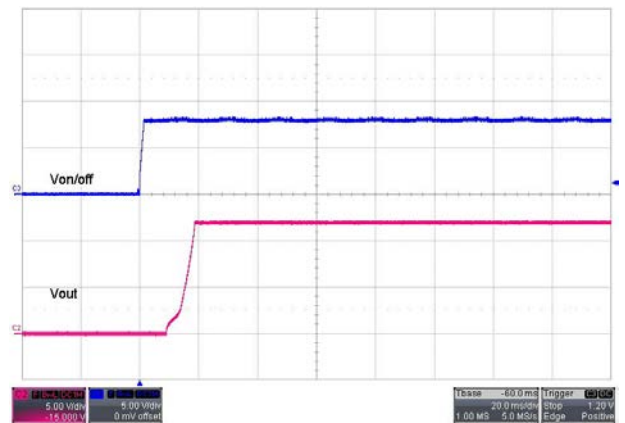All test conditions are at 25℃.The figures are identical for PMM20-48S12W

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
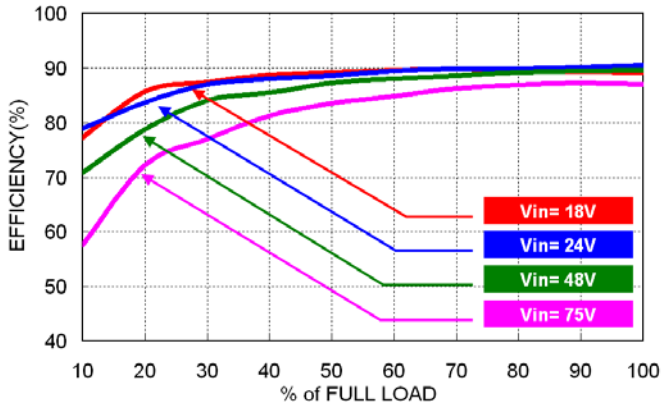Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
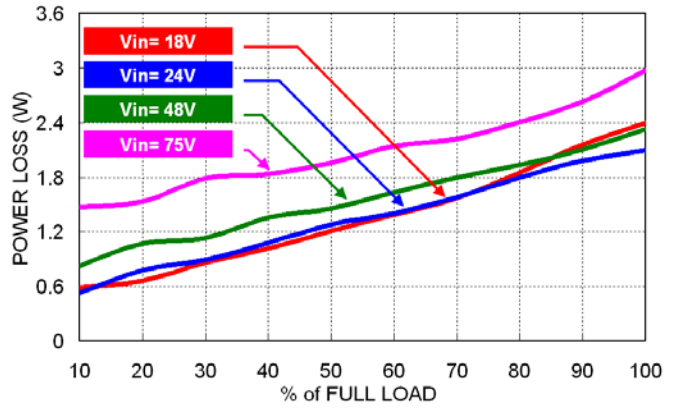Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
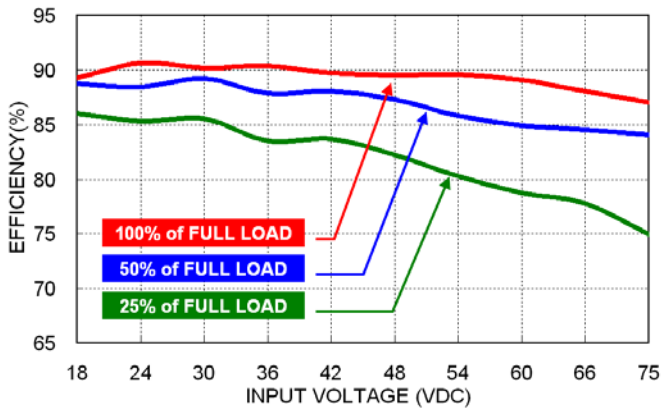Characteristic Curves

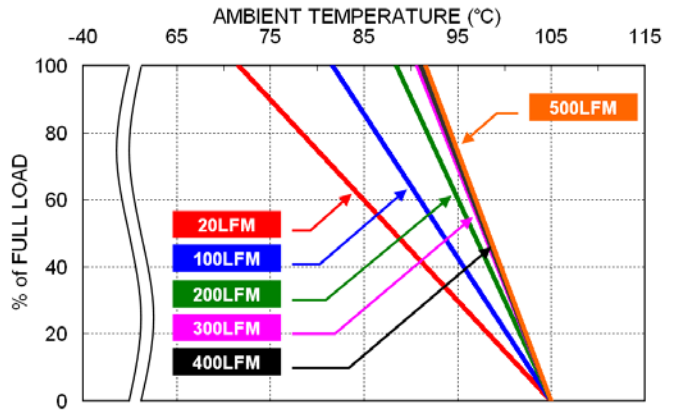All test conditions are at 25℃.The figures are identical for PMM20-48S15W

Efficiency Versus Output Load

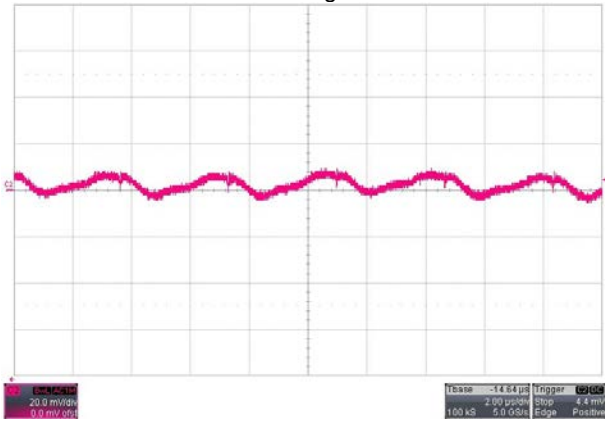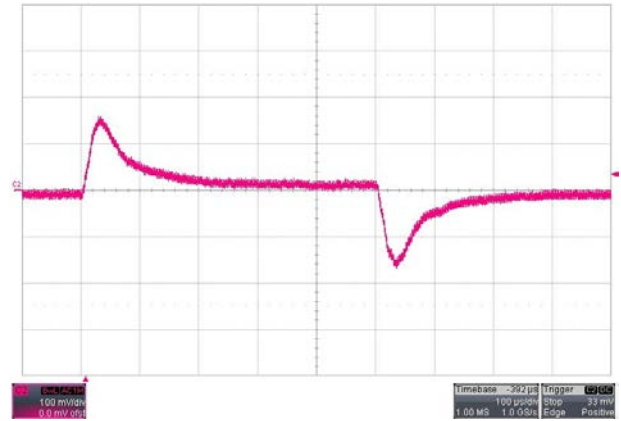Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
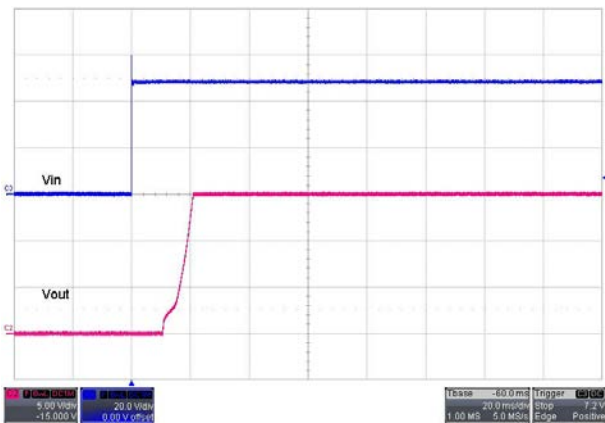Characteristic Curves

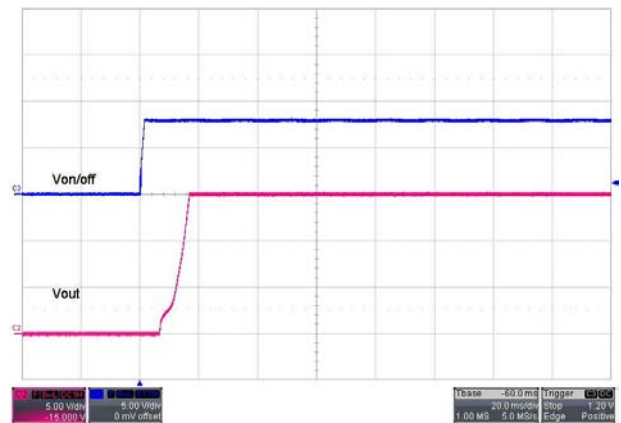All test conditions are at 25℃.The figures are identical for PMM20-48S15W

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
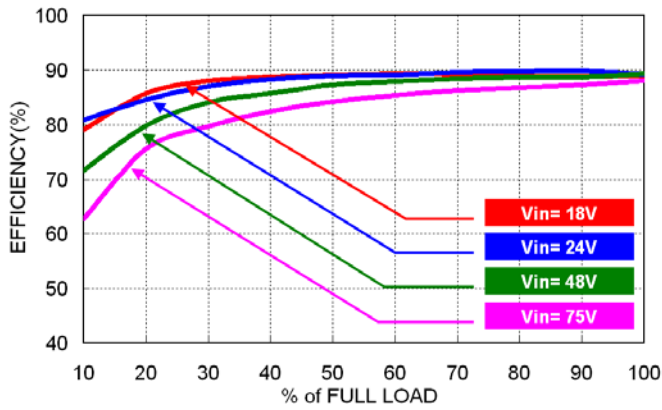100% to 75% to 100% of Full Load ; Vin(nom)

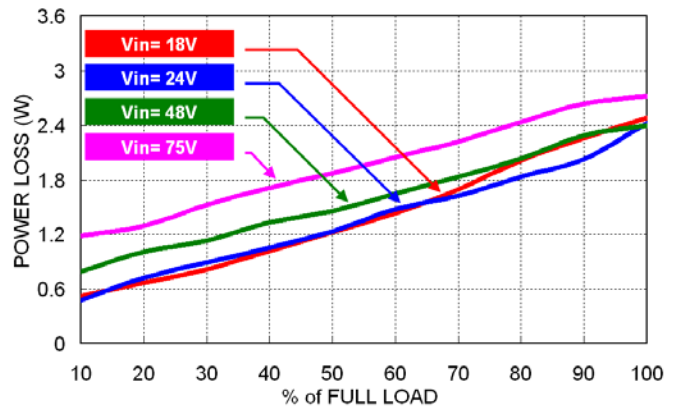Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

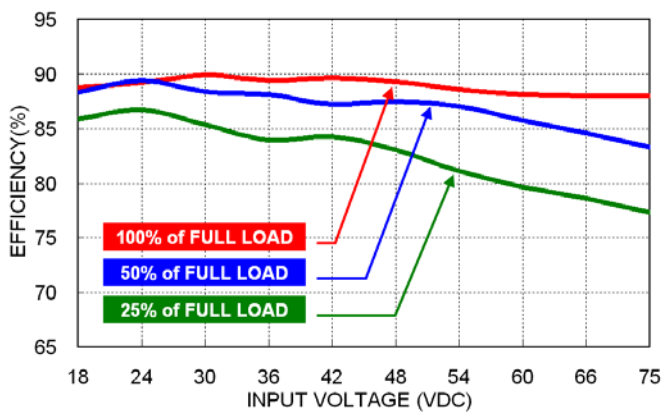Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

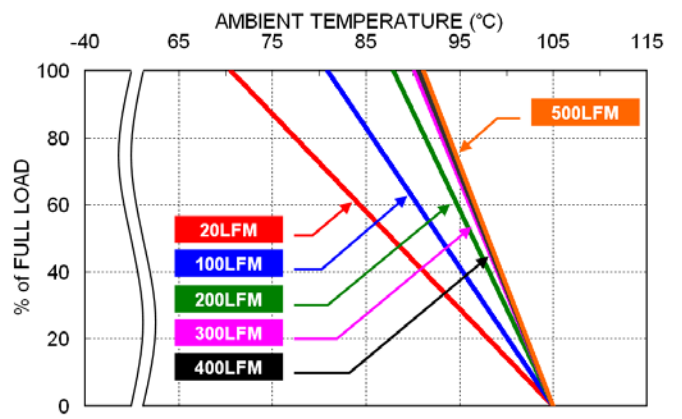All test conditions are at 25℃.The figures are identical for PMM20-48S24W

Efficiency Versus Output Load

Power Dissipation Versus Output Load

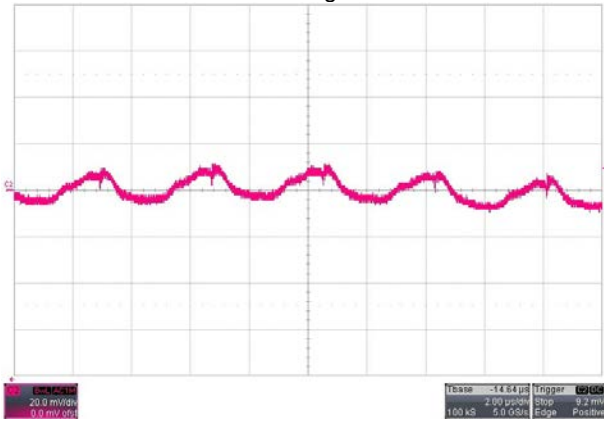Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-48S24W

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-12D05

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.
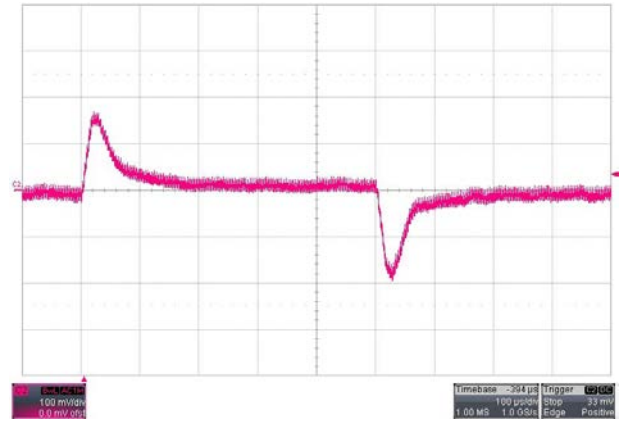

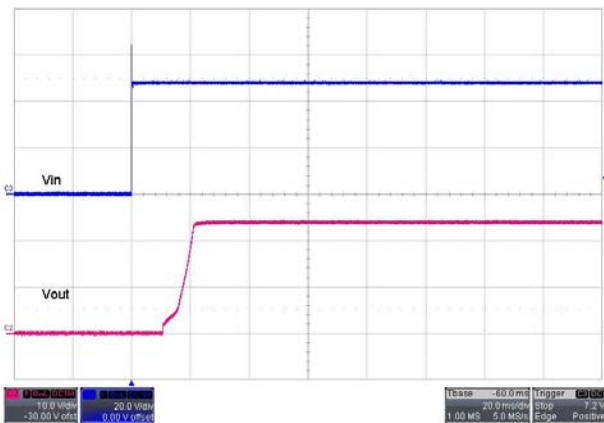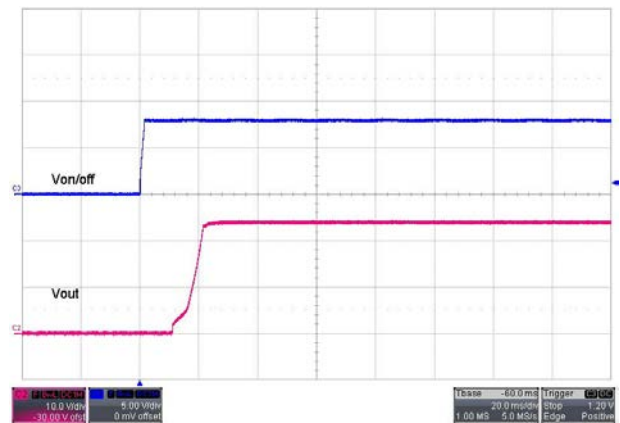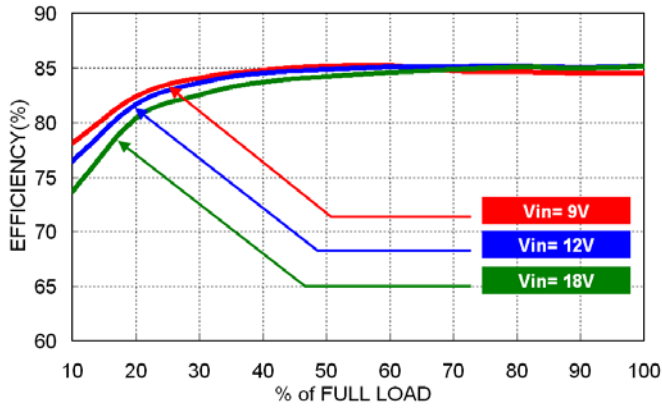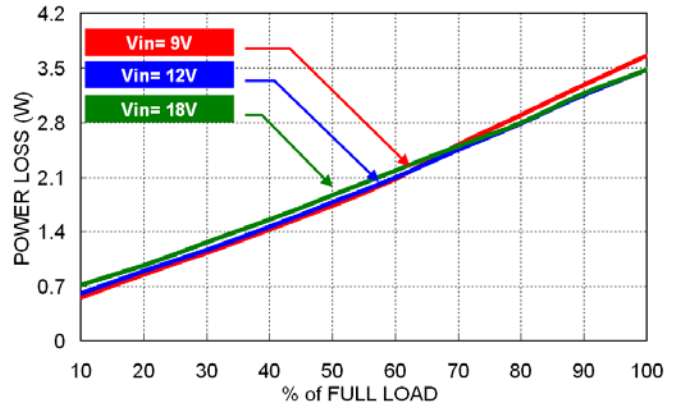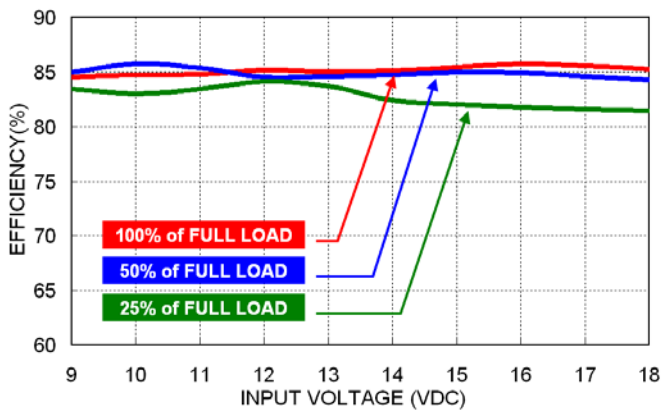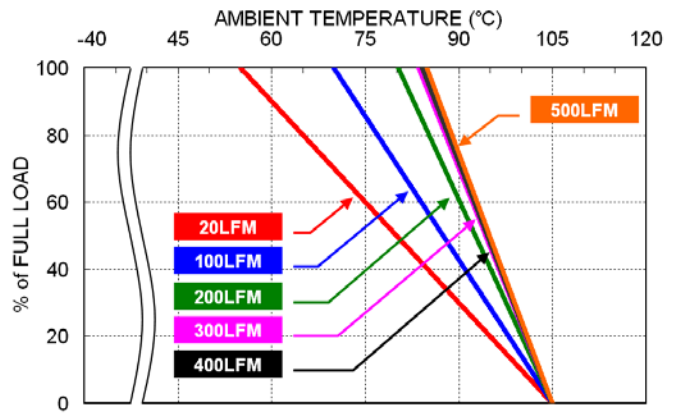Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-12D05

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-12D12

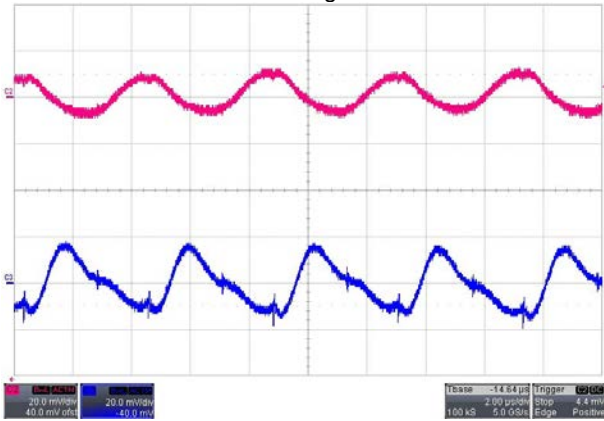Efficiency Versus Output Load

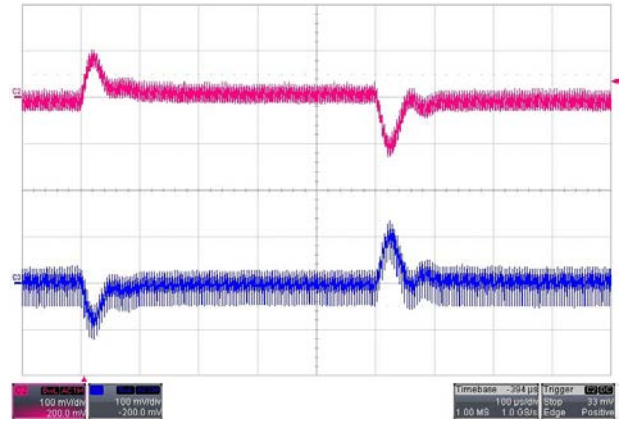Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

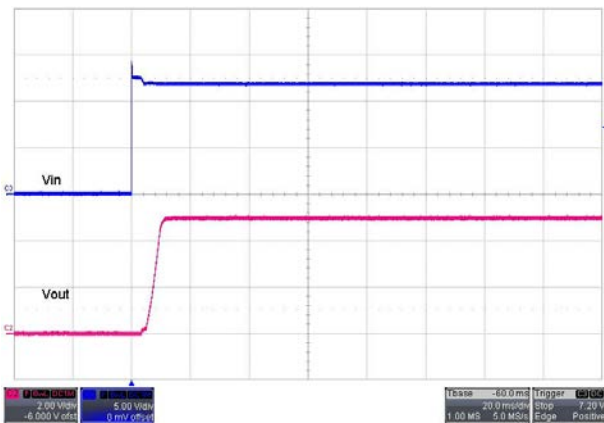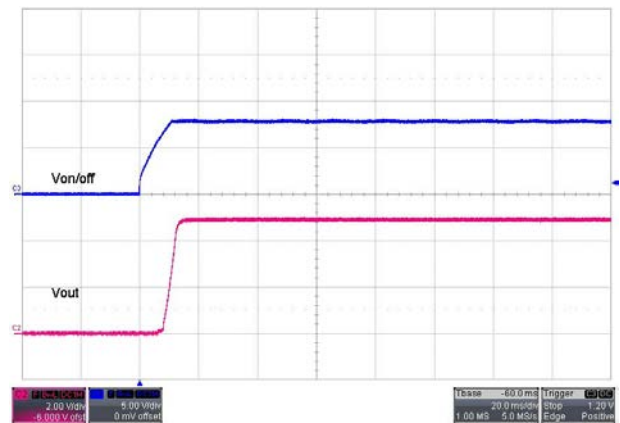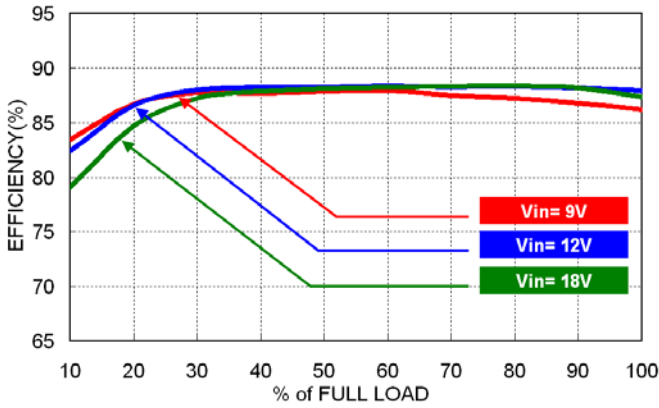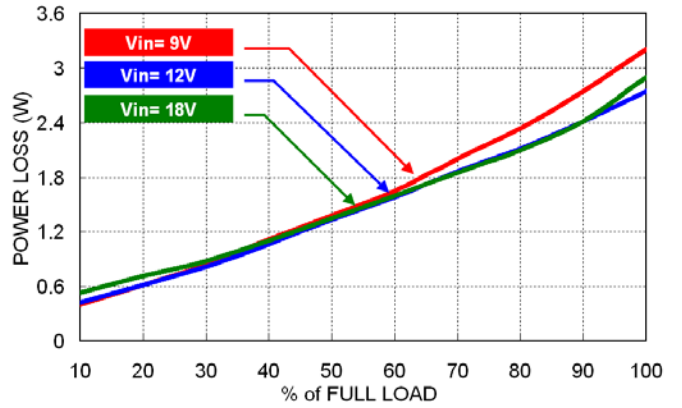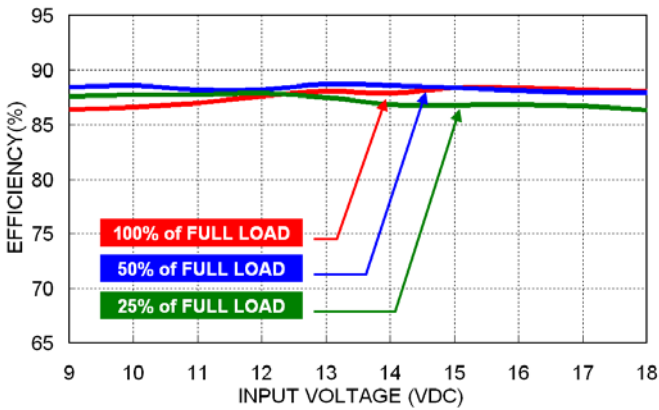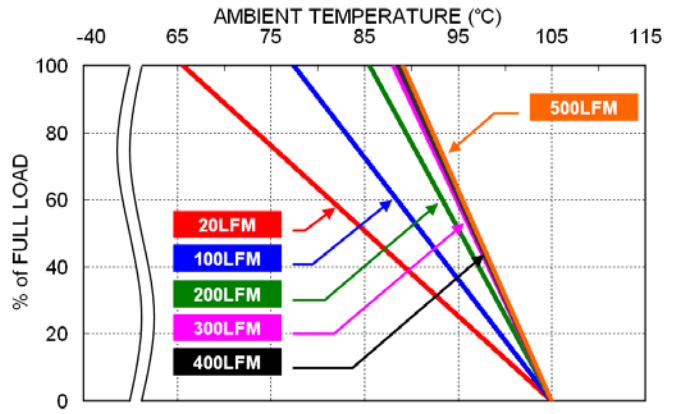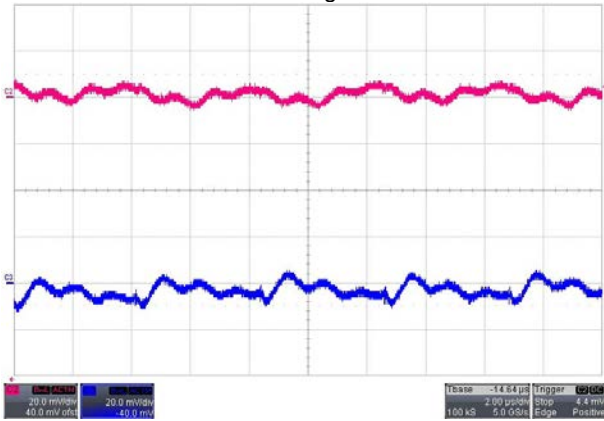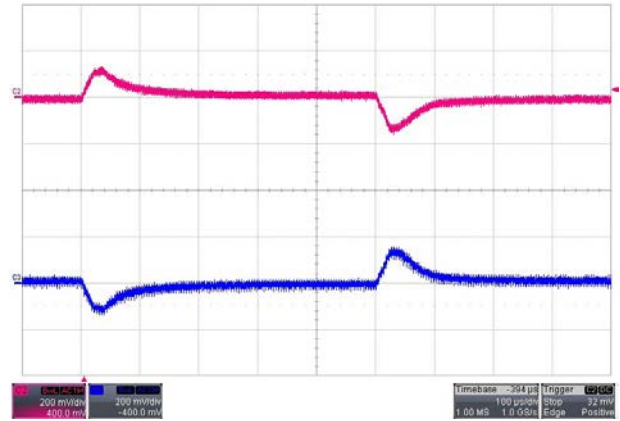Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-12D12

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-12D15

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

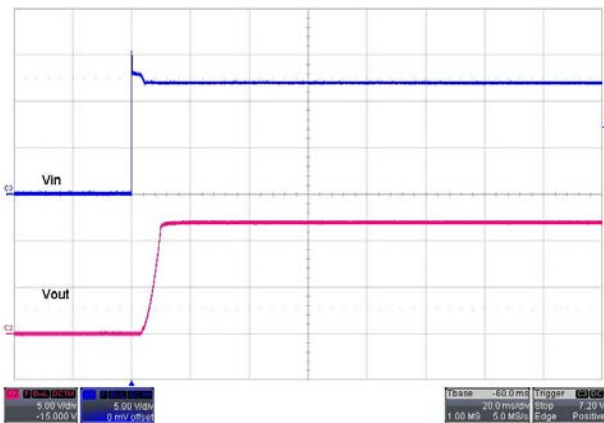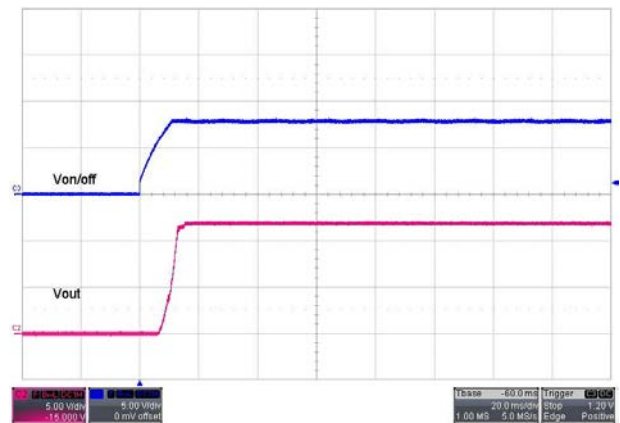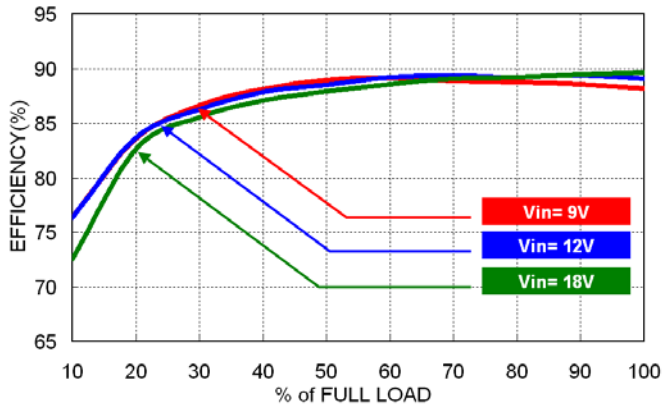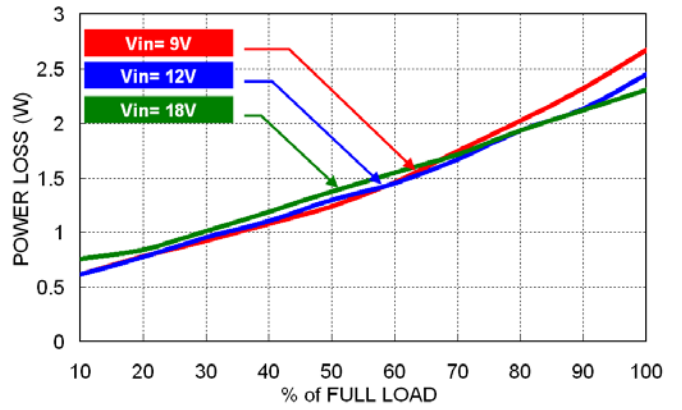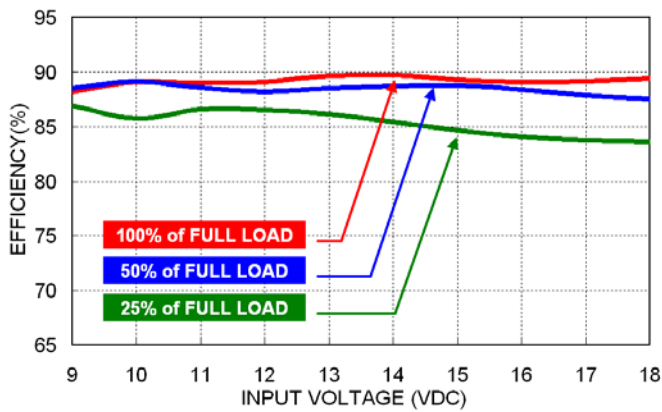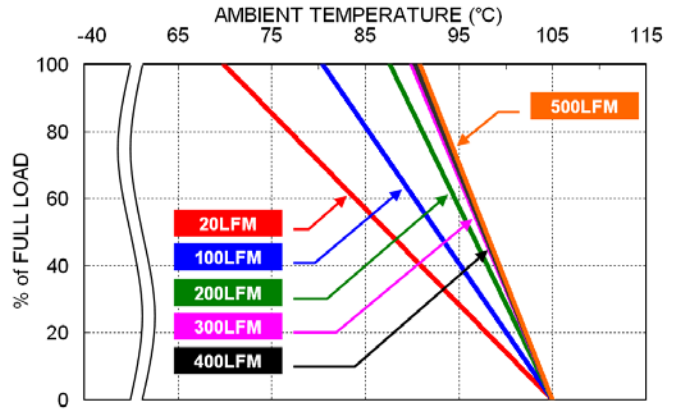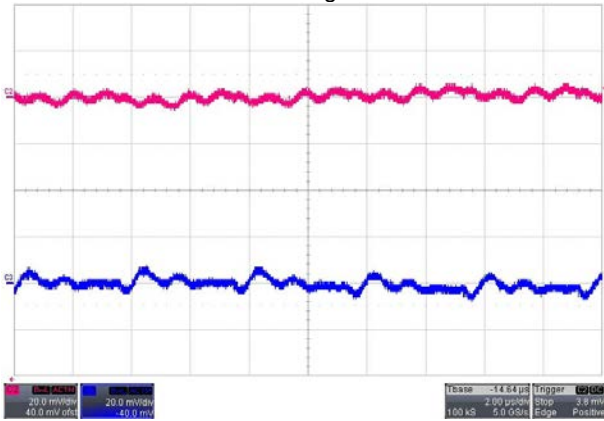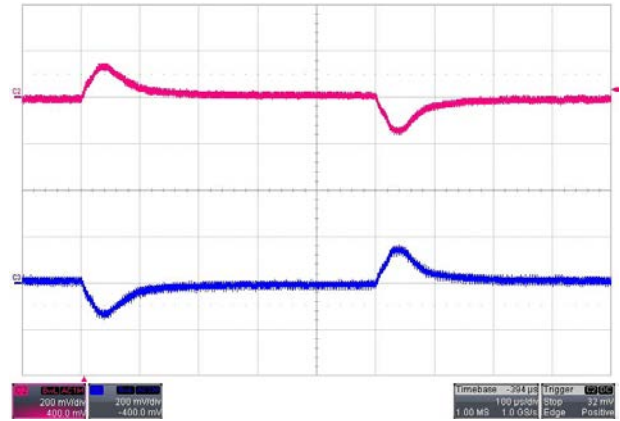Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

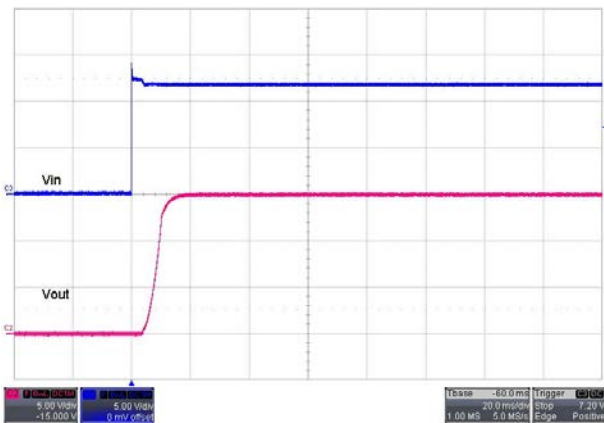Medical DC/DC Converter

Characteristic Curves

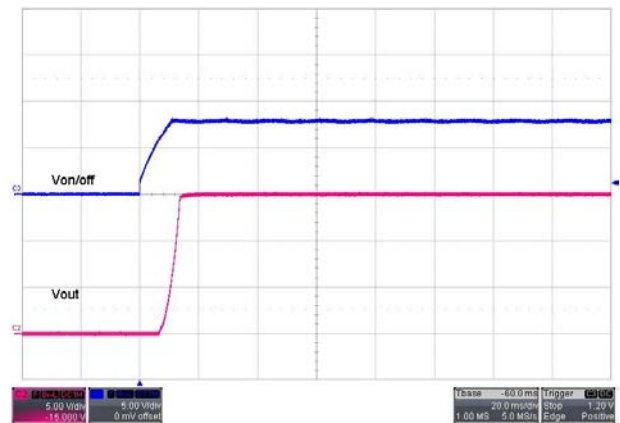All test conditions are at 25℃.The figures are identical for PMM20-12D15

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
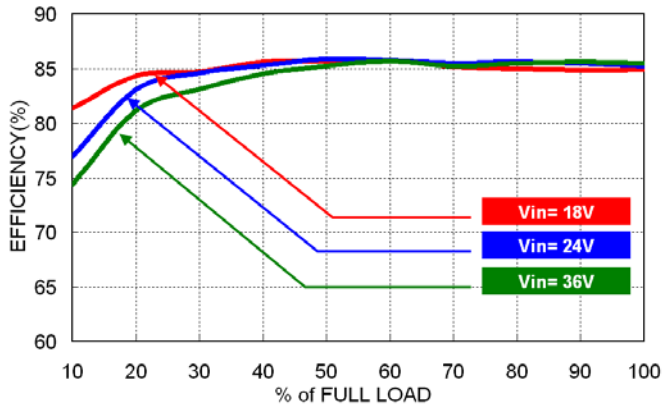100% to 75% to 100% of Full Load ; Vin(nom)

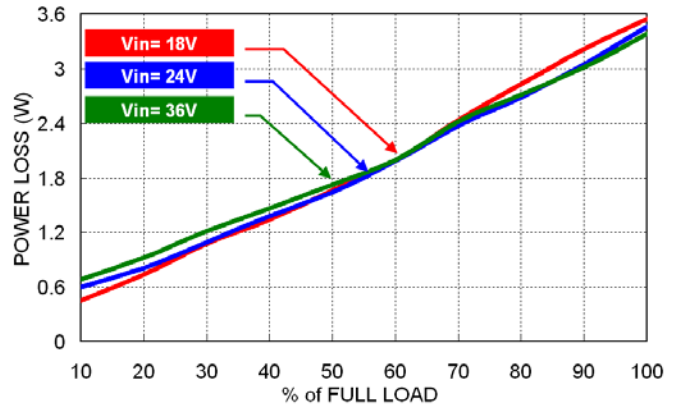Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
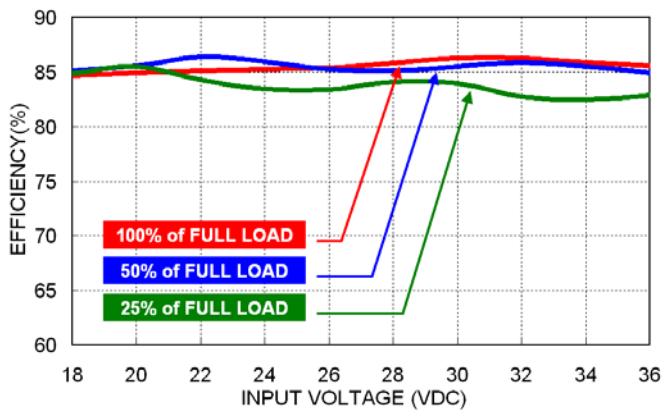Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

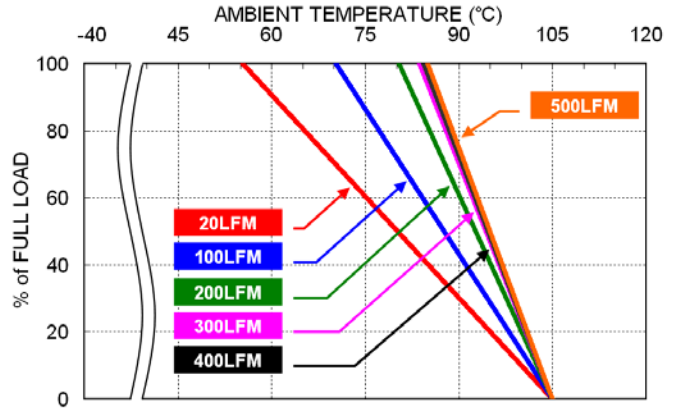All test conditions are at 25℃.The figures are identical for PMM20-24D05

Efficiency Versus Output Load
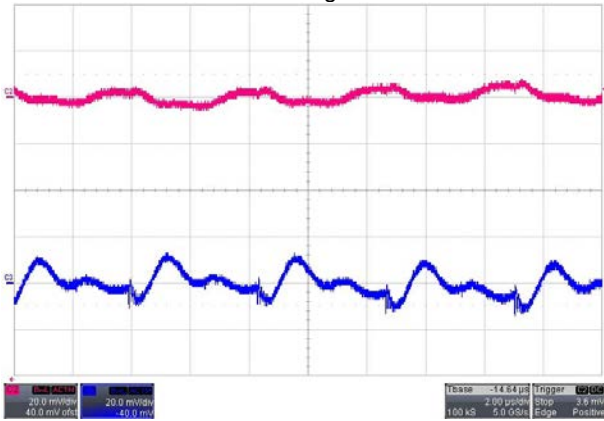

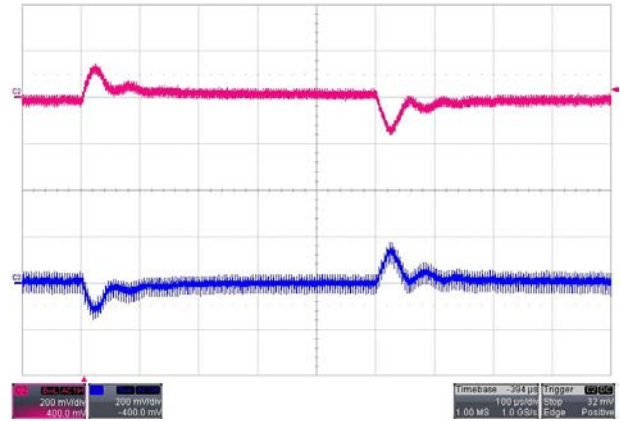Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output
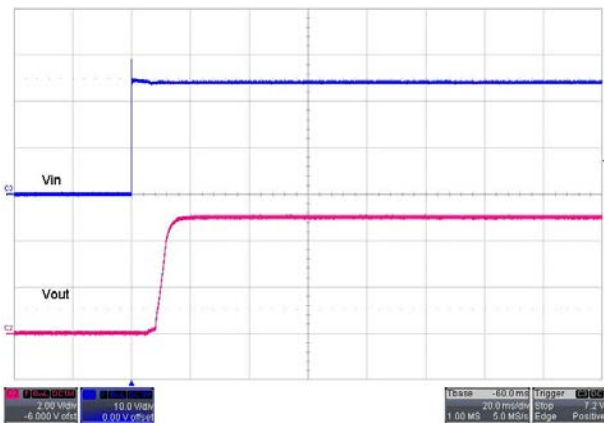
Medical DC/DC Converter

Characteristic Curves

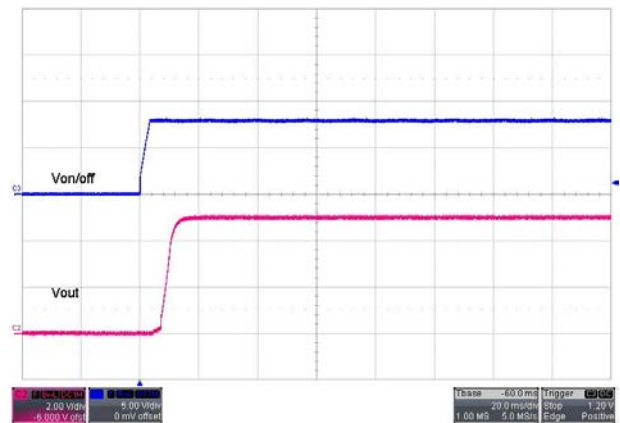All test conditions are at 25℃.The figures are identical for PMM20-24D05

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
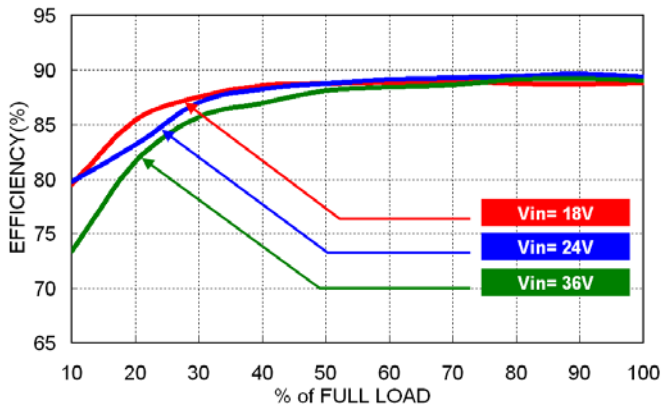100% to 75% to 100% of Full Load ; Vin(nom)

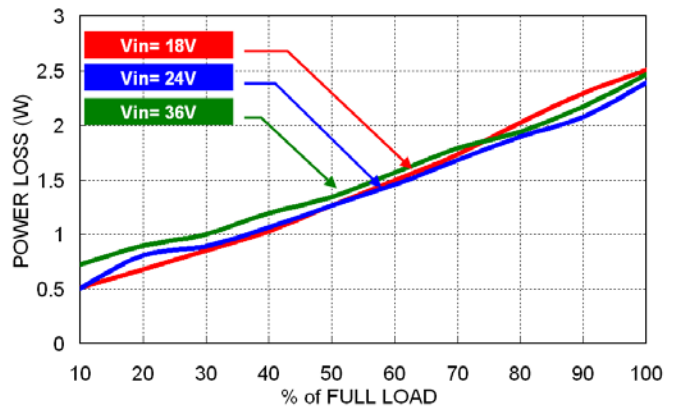Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
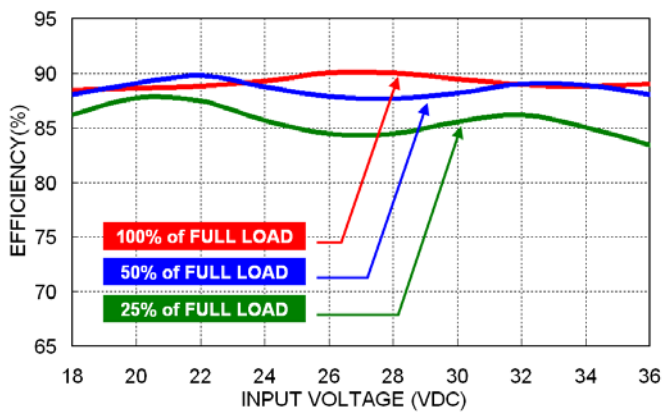Characteristic Curves

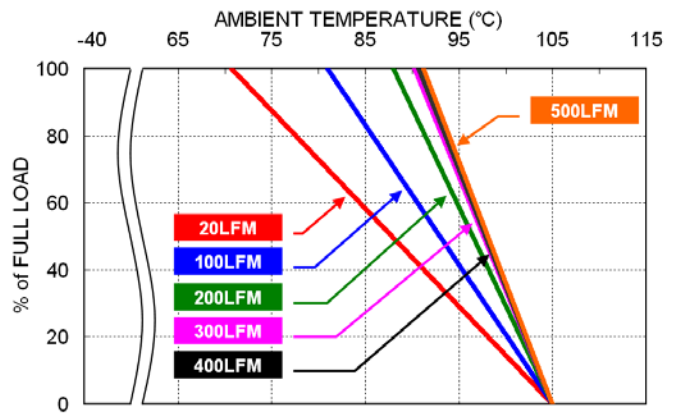All test conditions are at 25℃.The figures are identical for PMM20-24D12

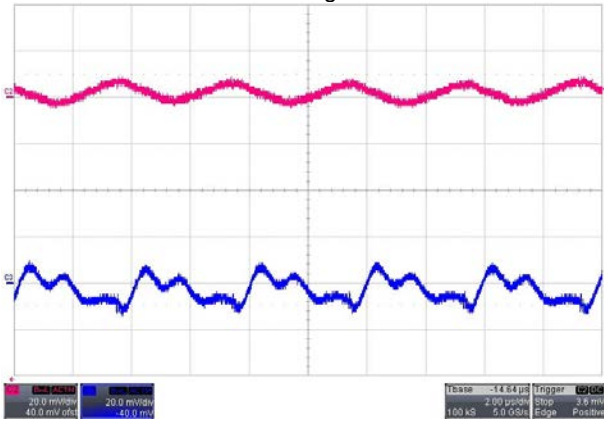Efficiency Versus Output Load

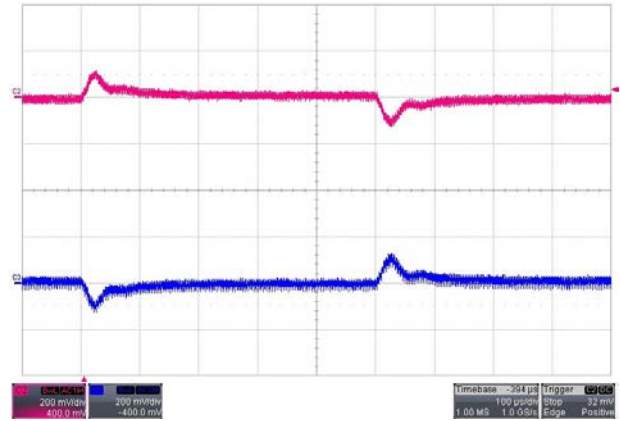Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

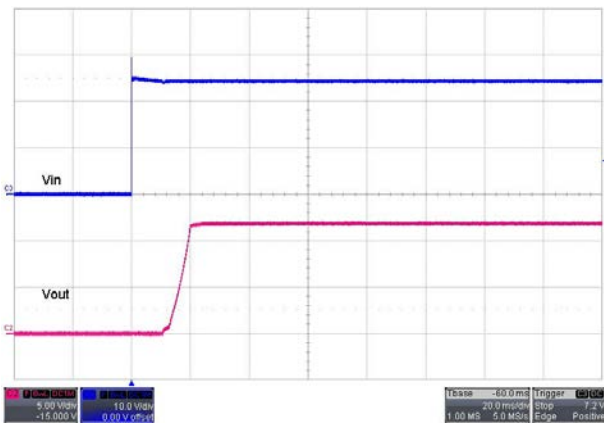Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

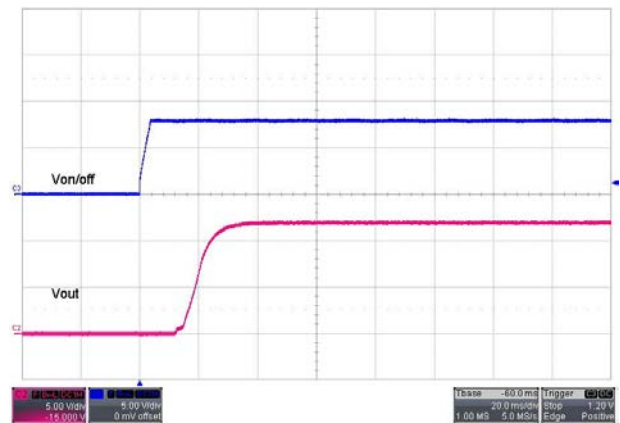All test conditions are at 25℃.The figures are identical for PMM20-24D12

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
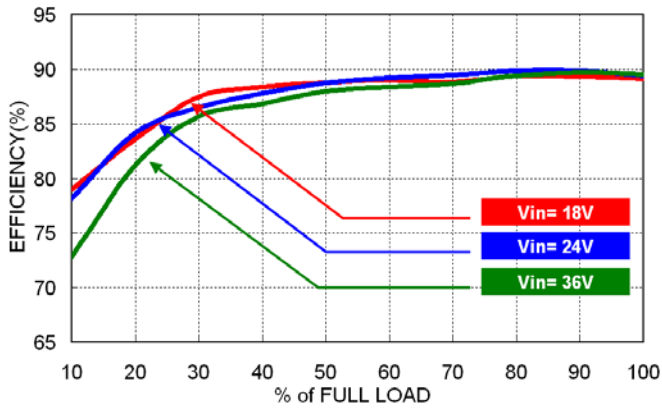Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
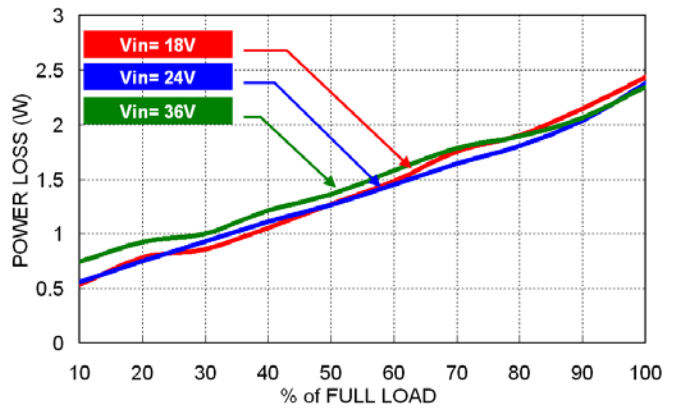Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
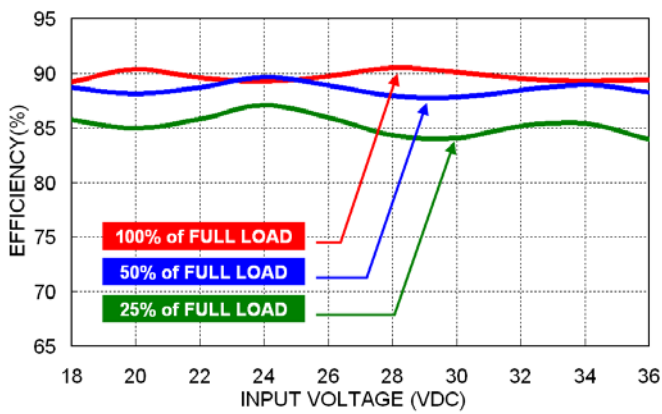Characteristic Curves

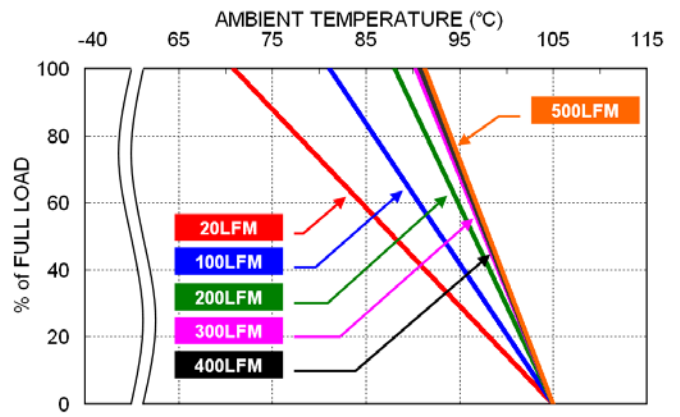All test conditions are at 25℃.The figures are identical for PMM20-24D15

Efficiency Versus Output Load
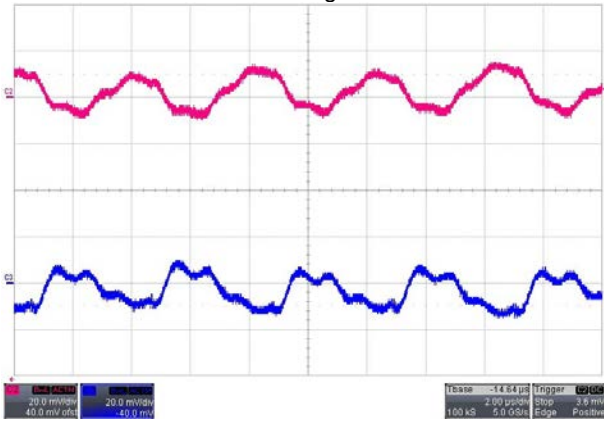

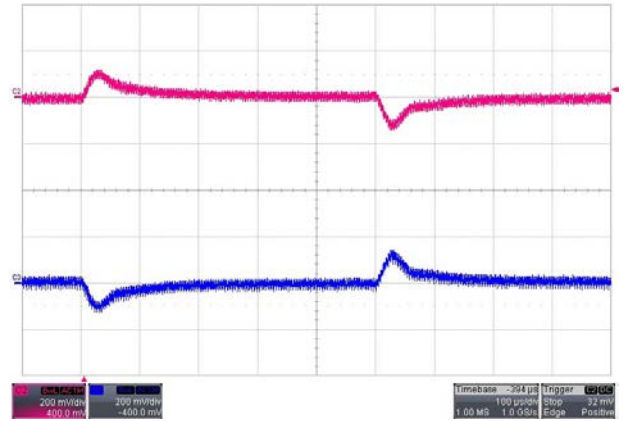Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
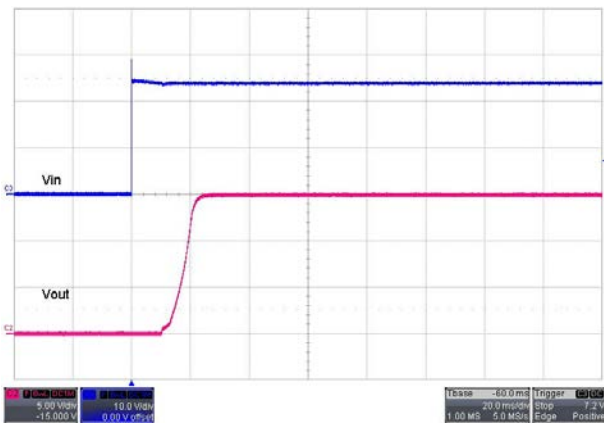Characteristic Curves

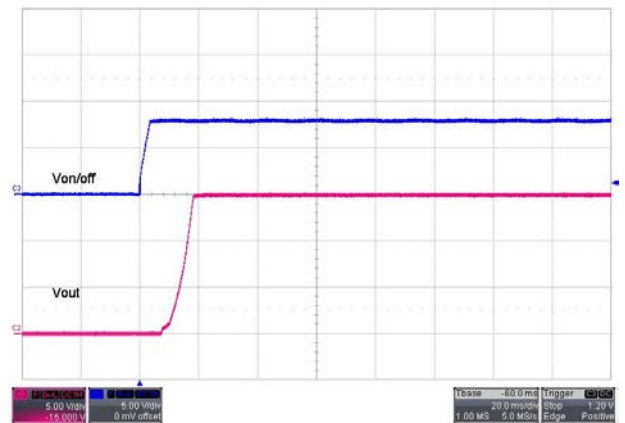All test conditions are at 25℃.The figures are identical for PMM20-24D15

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
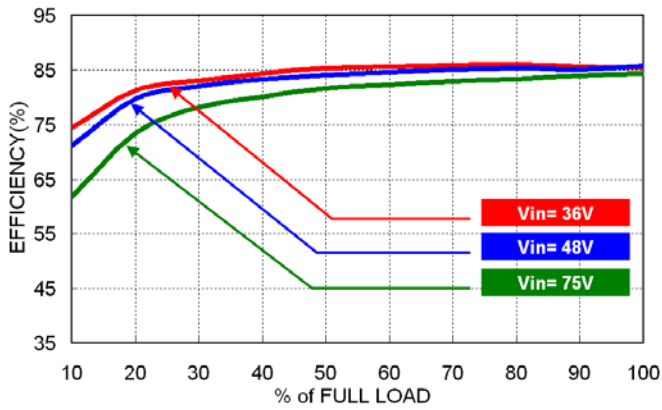100% to 75% to 100% of Full Load ; Vin(nom)

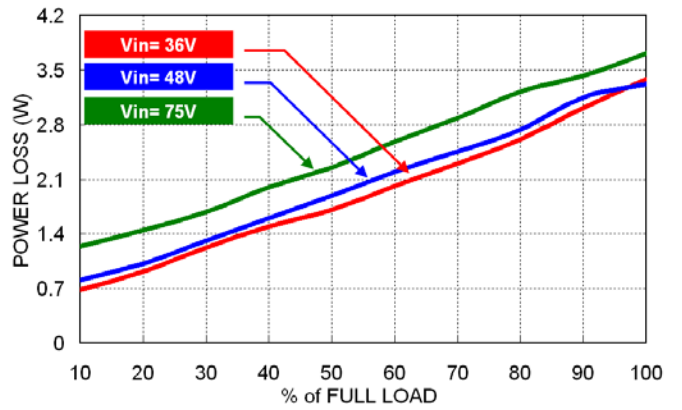Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
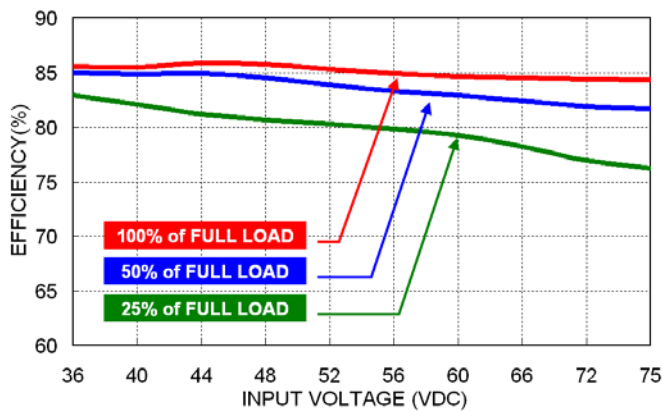Characteristic Curves

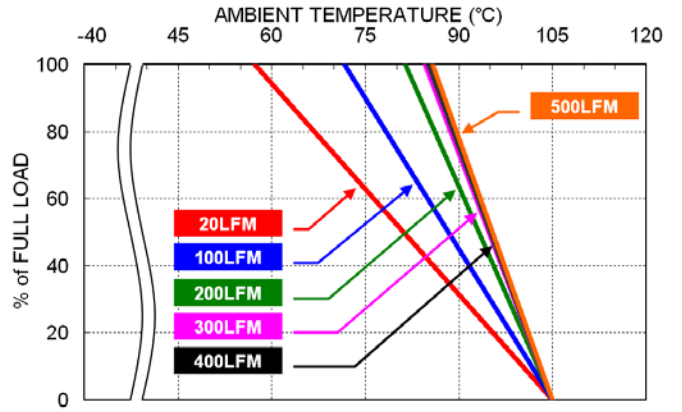All test conditions are at 25℃.The figures are identical for PMM20-48D05

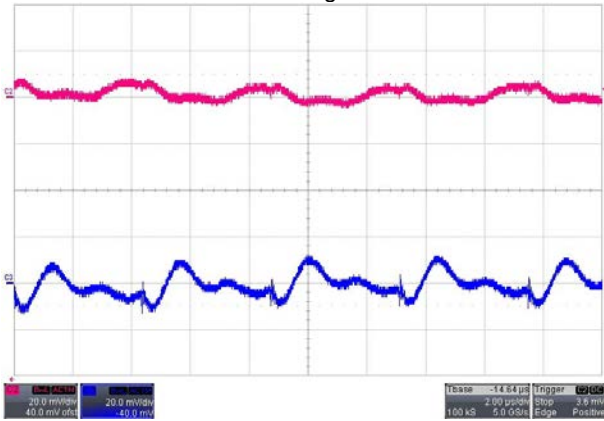Efficiency Versus Output Load

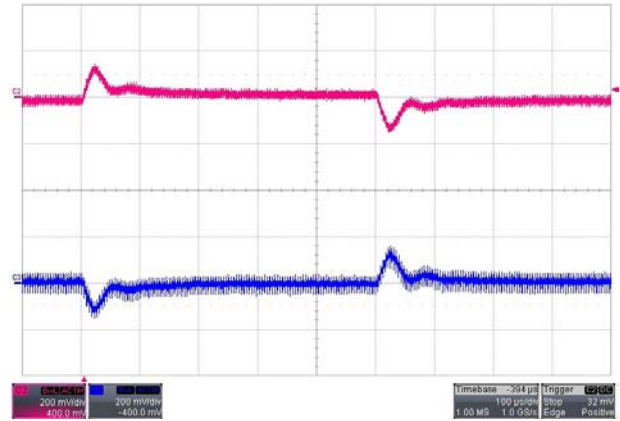Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

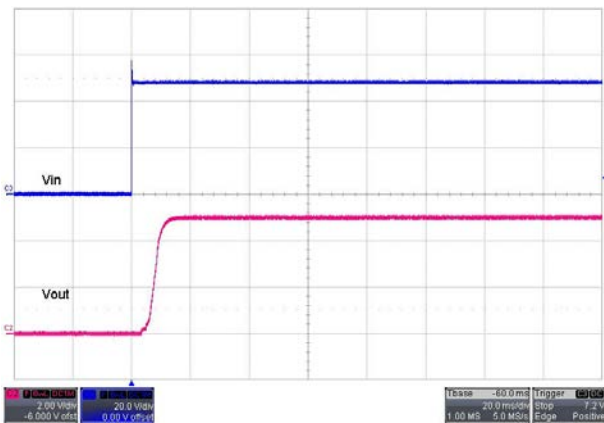Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

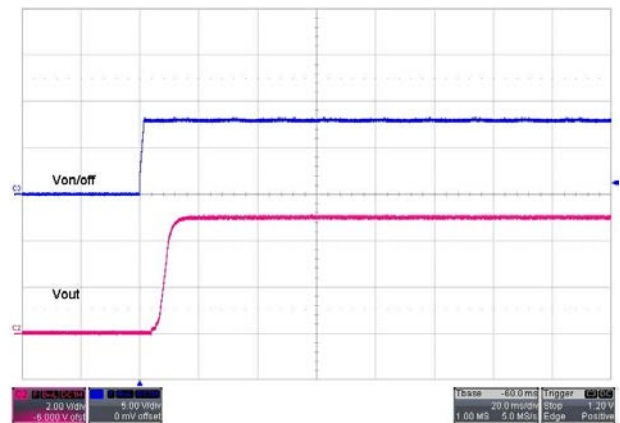All test conditions are at 25℃.The figures are identical for PMM20-48D05

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
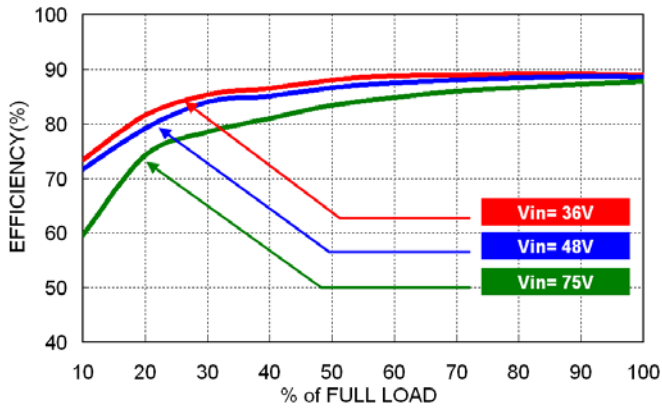100% to 75% to 100% of Full Load ; Vin(nom)

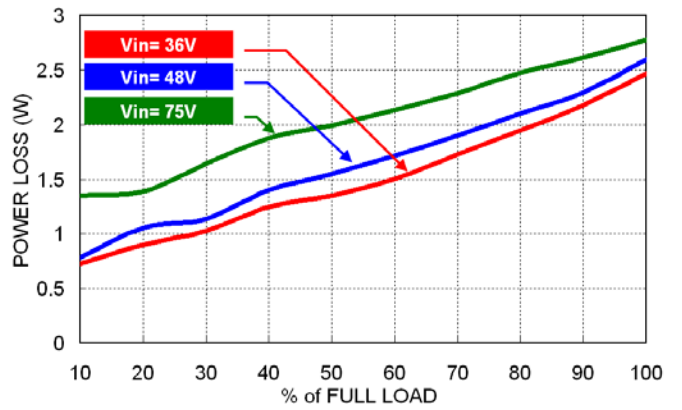Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline

PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
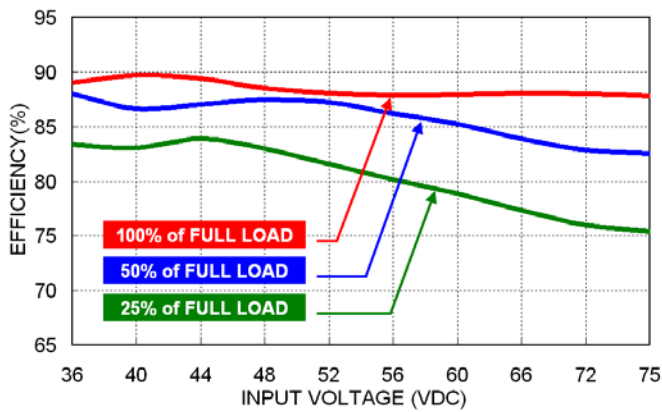Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-48D12
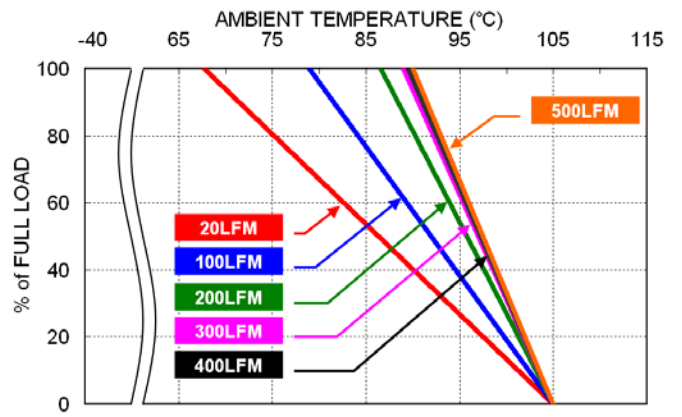

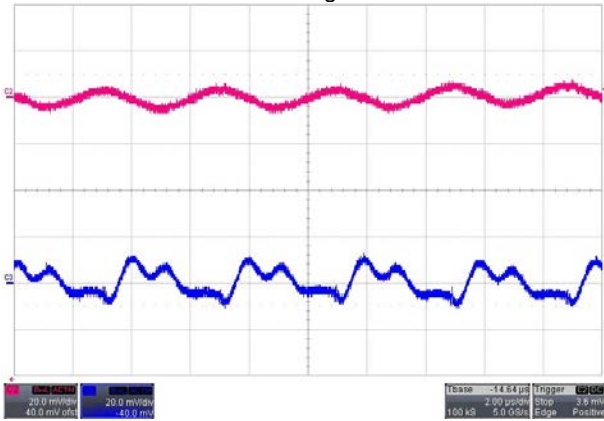Efficiency Versus Output Load

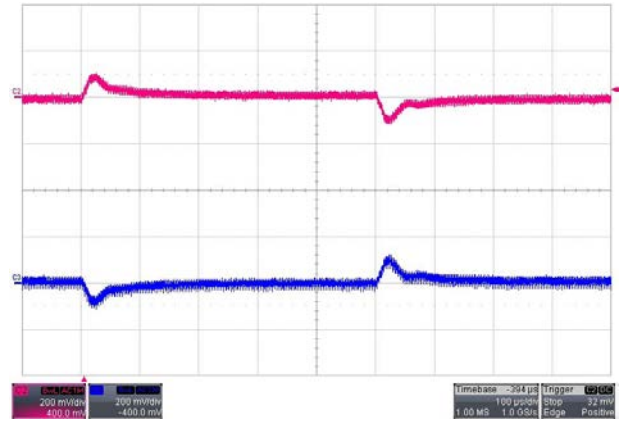Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
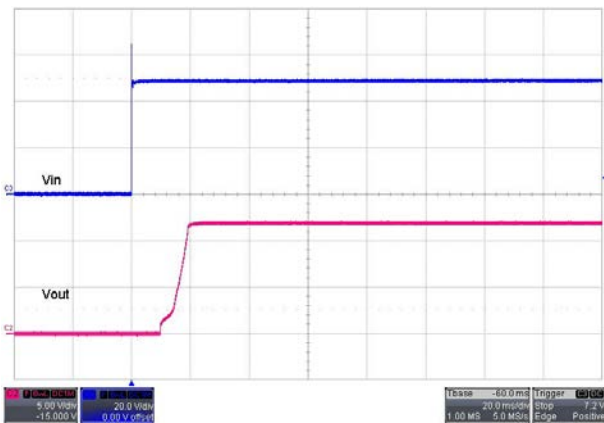Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

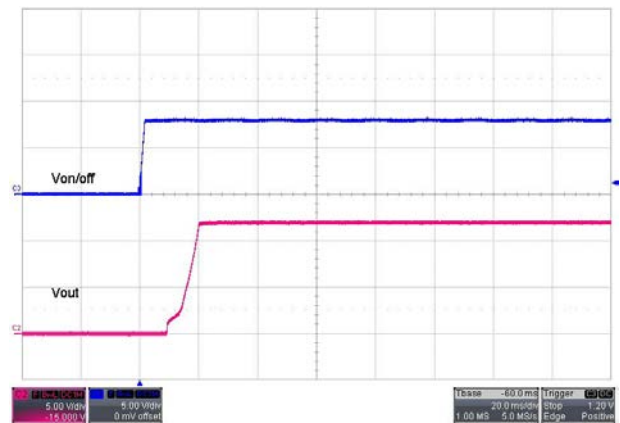All test conditions are at 25℃.The figures are identical for PMM20-48D12

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
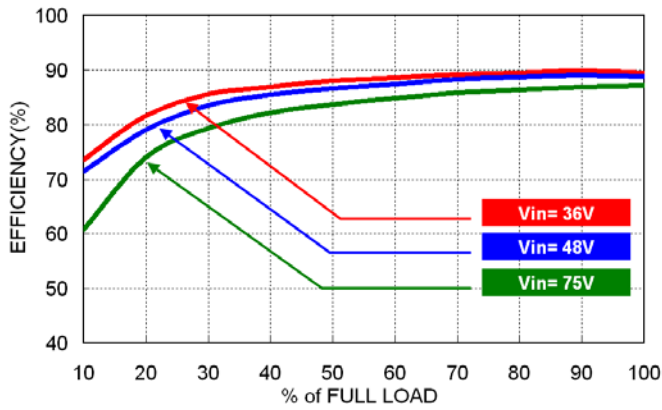100% to 75% to 100% of Full Load ; Vin(nom)

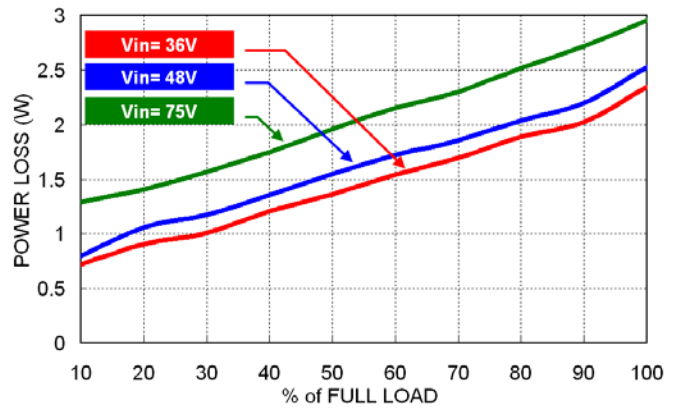Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
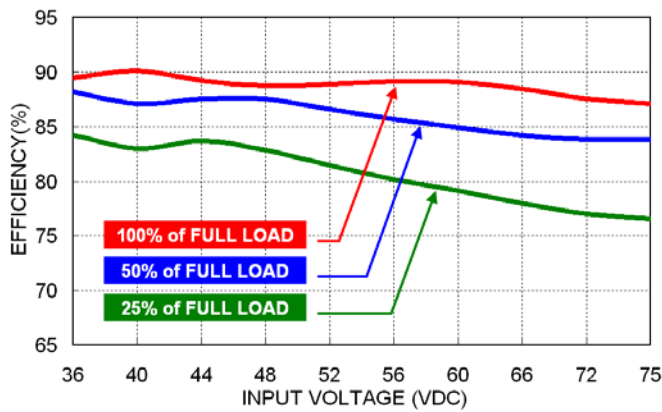Characteristic Curves

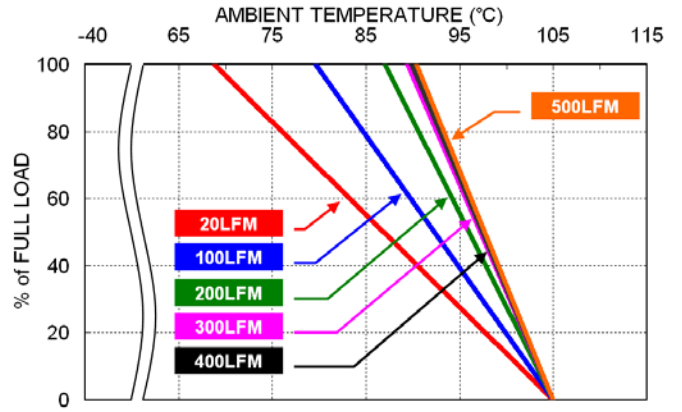All test conditions are at 25℃.The figures are identical for PMM20-48D15

Efficiency Versus Output Load

Power Dissipation Versus Output Load

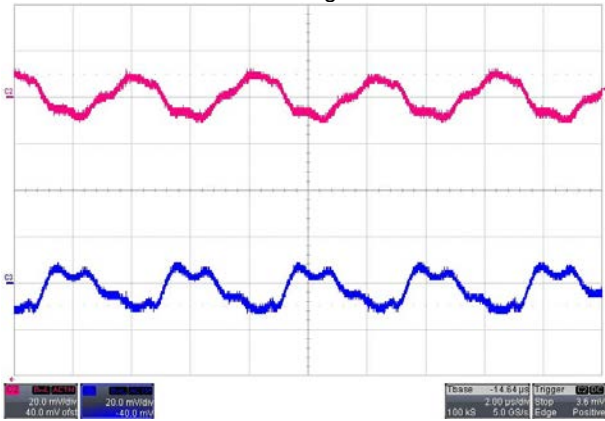

Efficiency Versus Input Voltage.

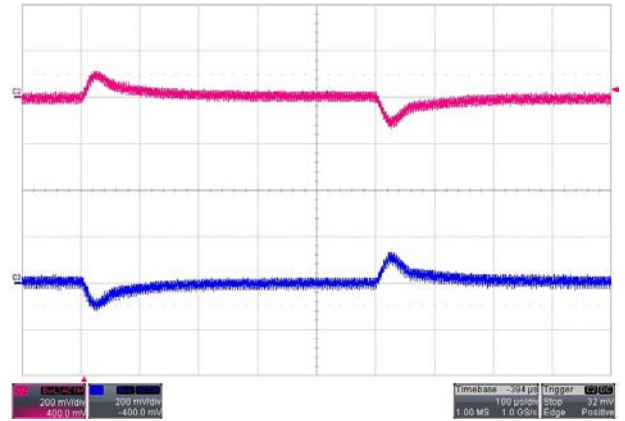Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
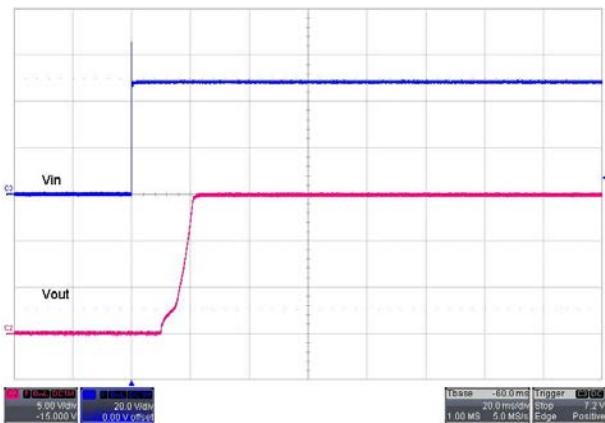Characteristic Curves

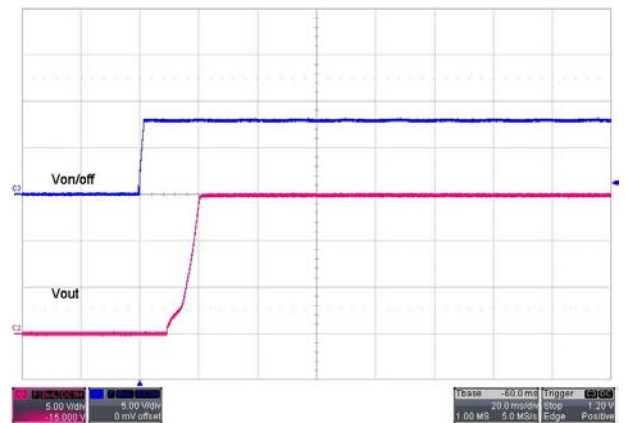All test conditions are at 25℃.The figures are identical for PMM20-48D15

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
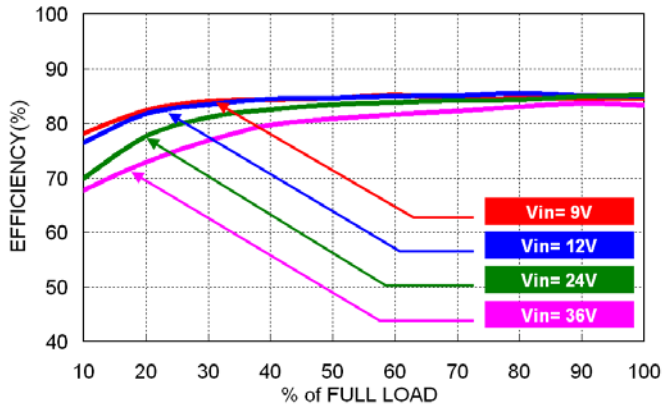100% to 75% to 100% of Full Load ; Vin(nom)

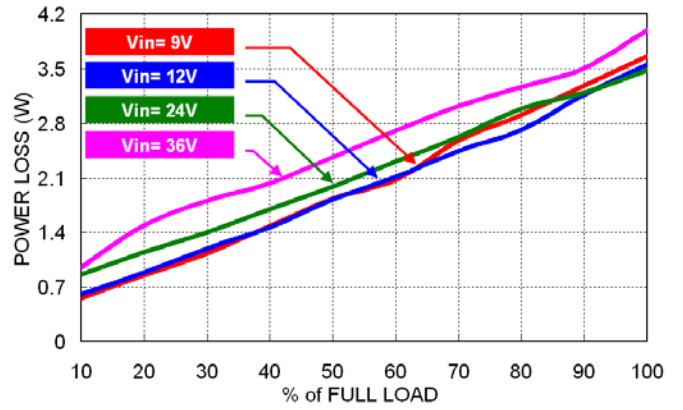Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

20W 2:1 & 4:1 Single and Dual Output
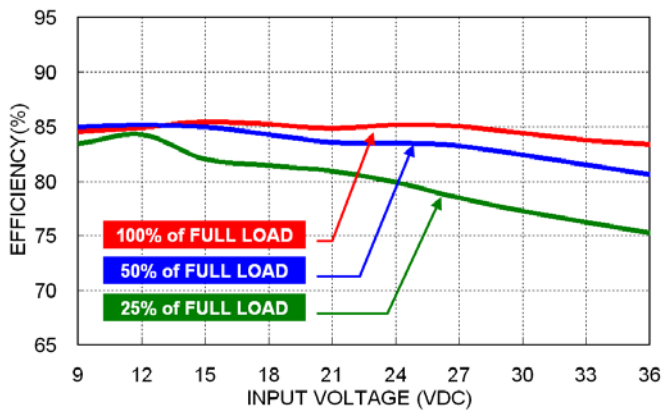Medical DC/DC Converter
Characteristic Curves

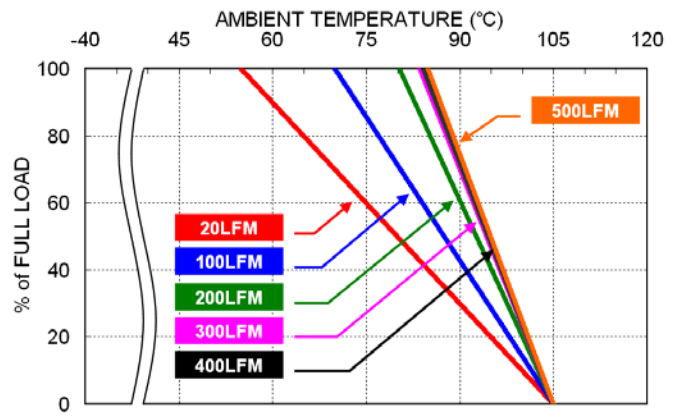All test conditions are at 25℃.The figures are identical for PMM20-24D05W

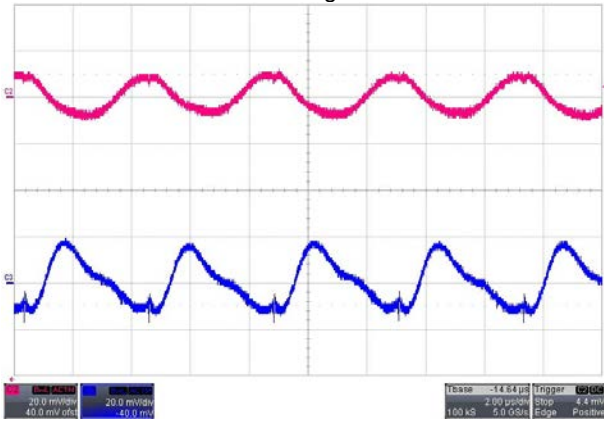Efficiency Versus Output Load

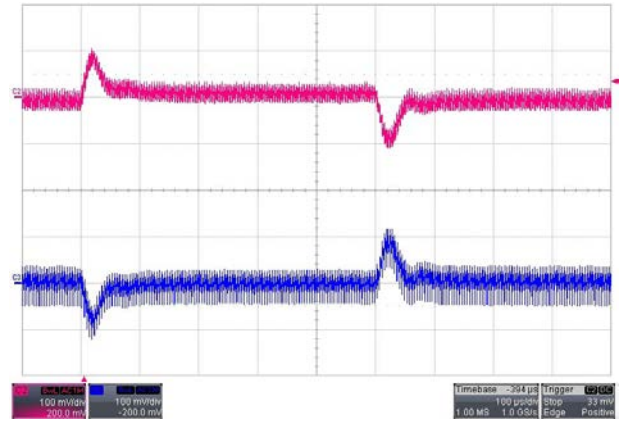Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

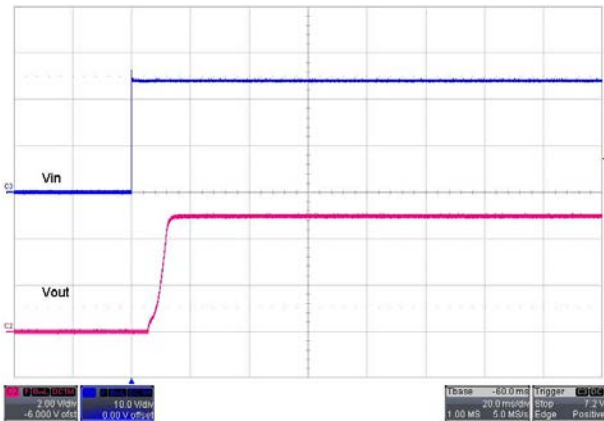Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-24D05W
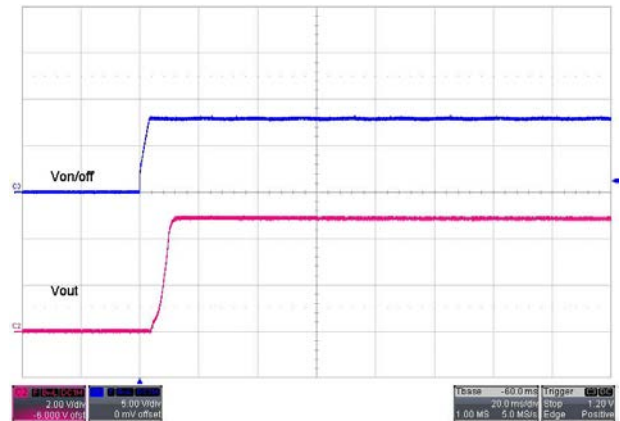

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
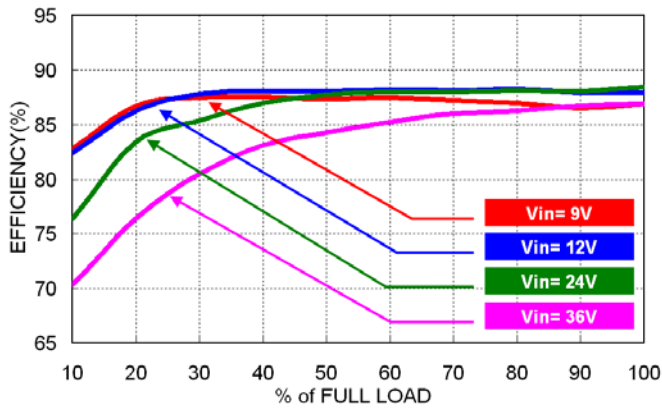100% to 75% to 100% of Full Load ; Vin(nom)

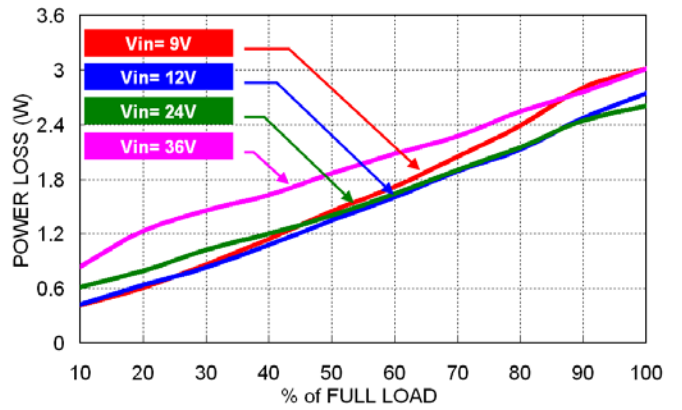Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
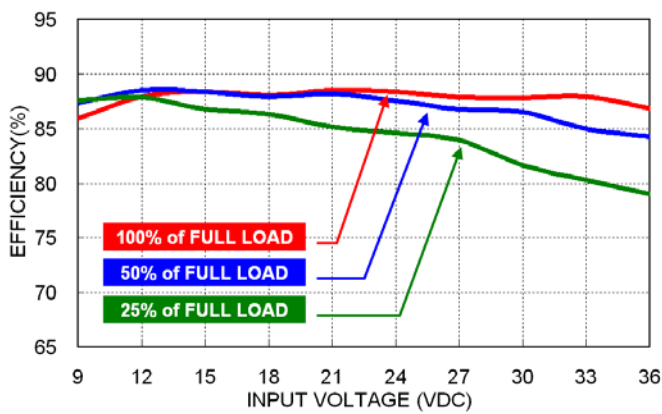Characteristic Curves

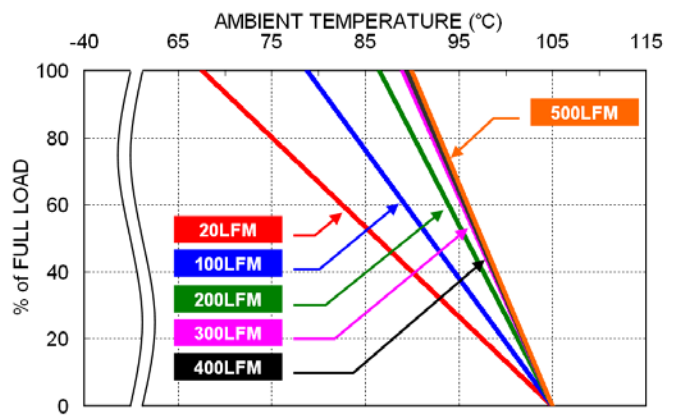All test conditions are at 25℃.The figures are identical for PMM20-24D12W

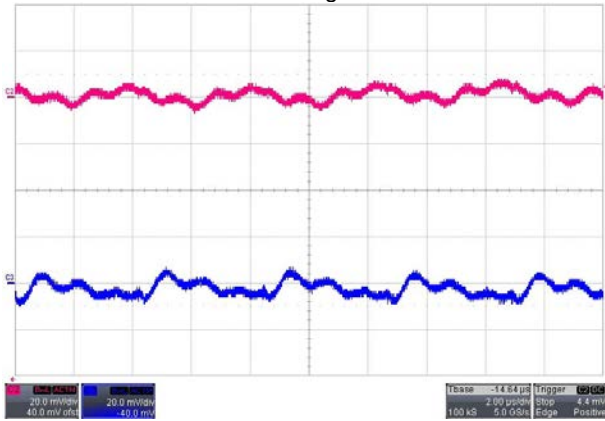Efficiency Versus Output Load

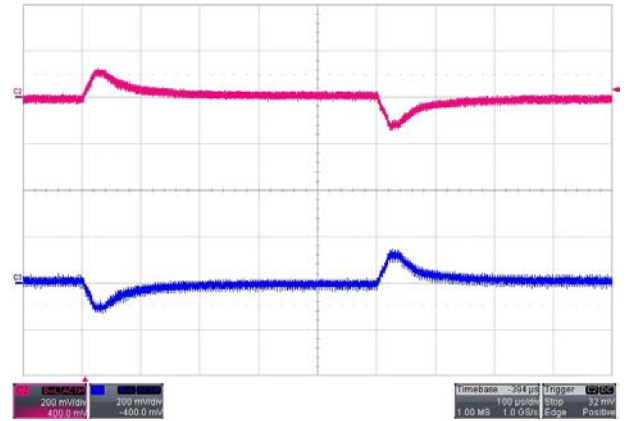Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

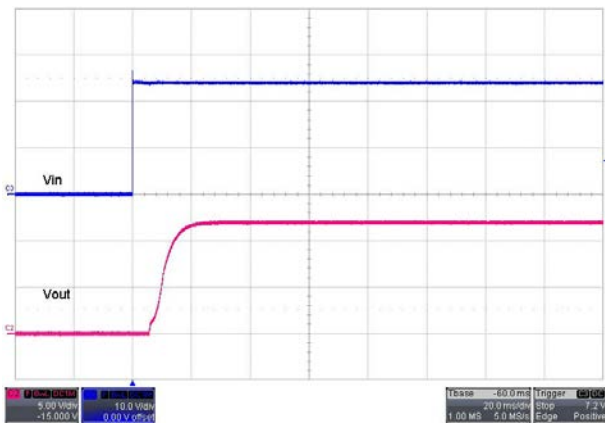Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

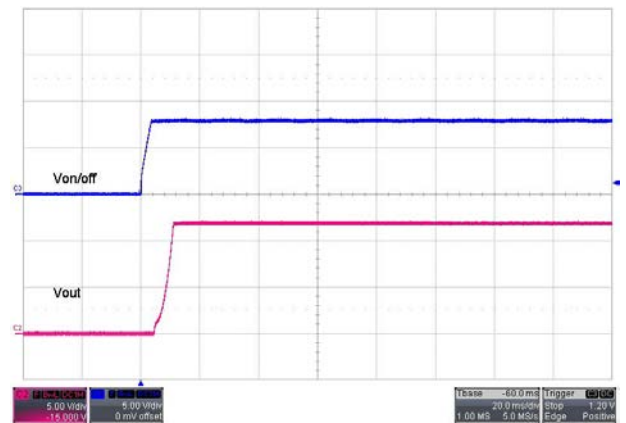All test conditions are at 25℃.The figures are identical for PMM20-24D12W

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
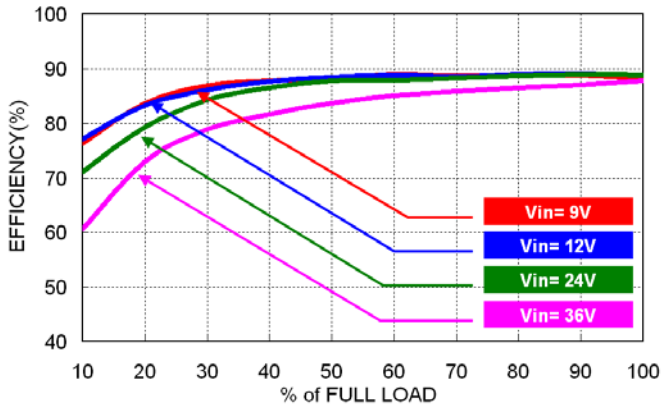100% to 75% to 100% of Full Load ; Vin(nom)

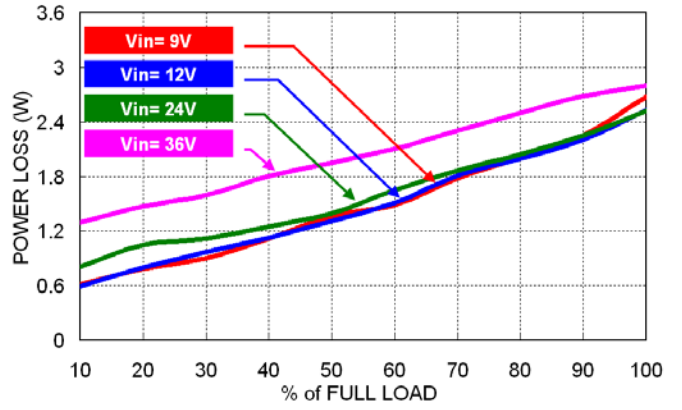Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

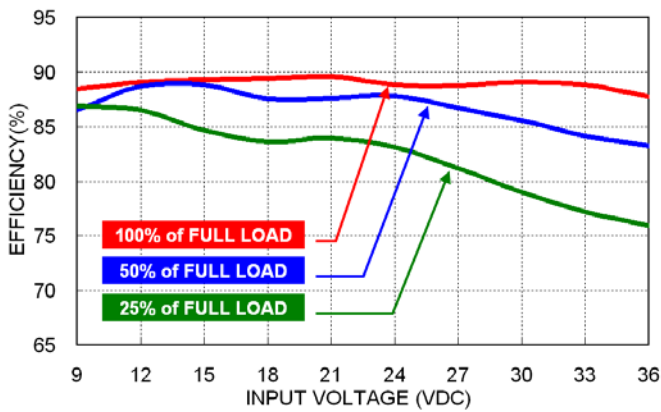Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

All test conditions are at 25℃.The figures are identical for PMM20-24D15W
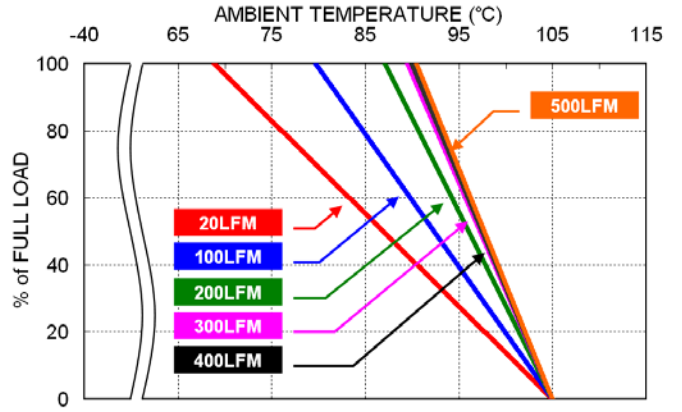

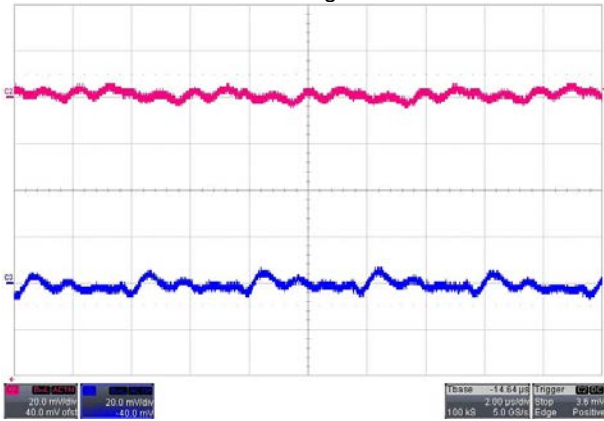Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-24D15W

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-48D05W

Efficiency Versus Output Load

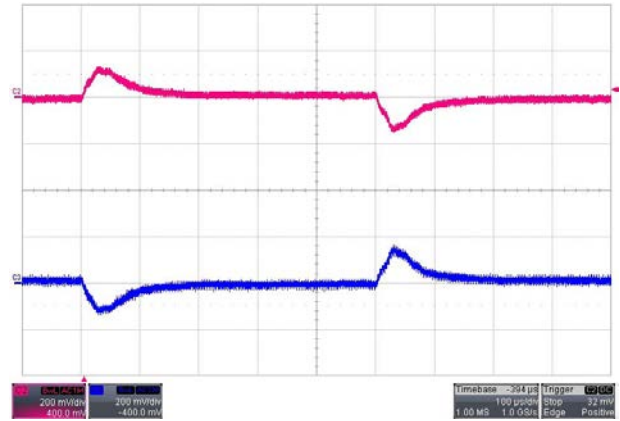Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
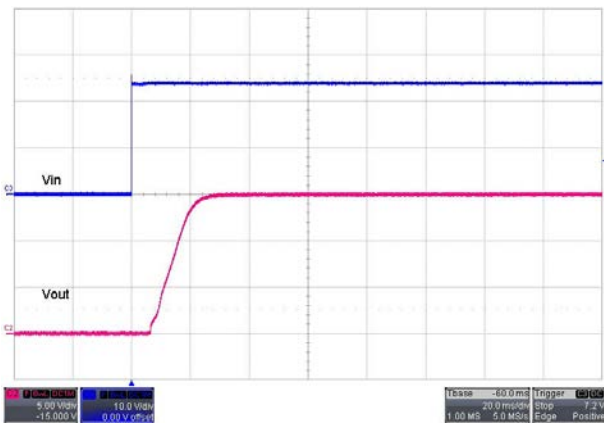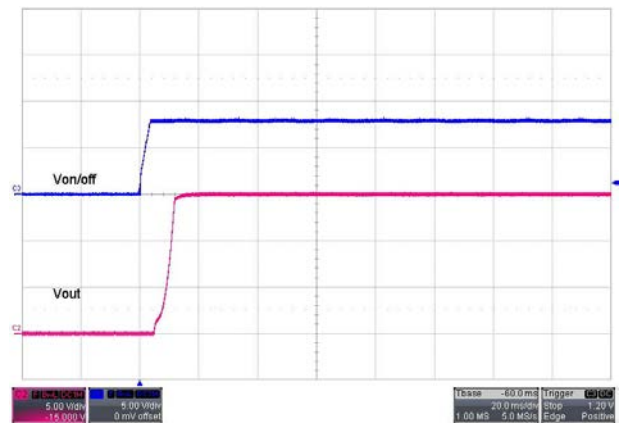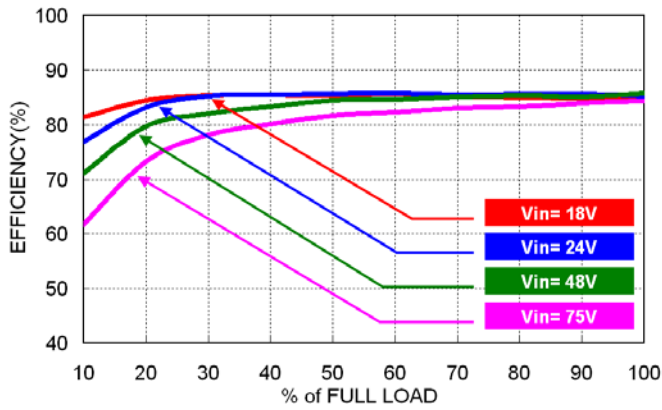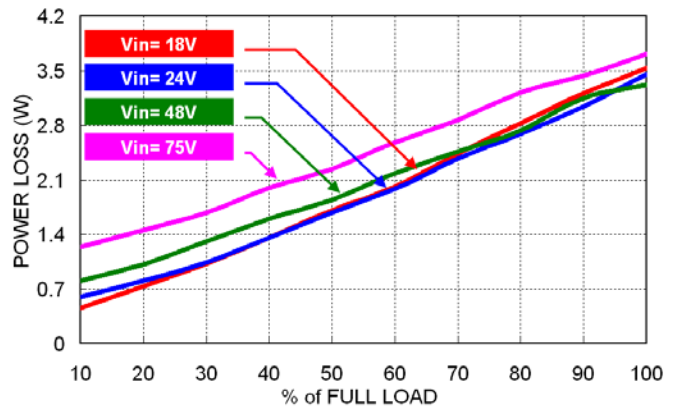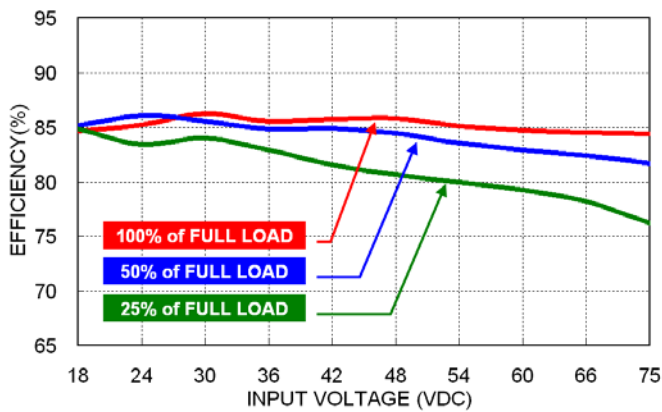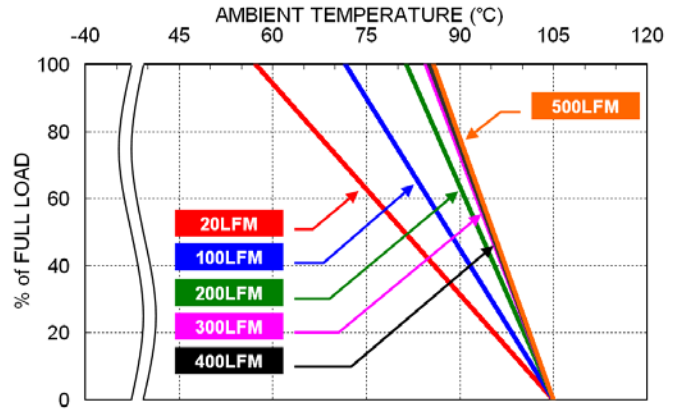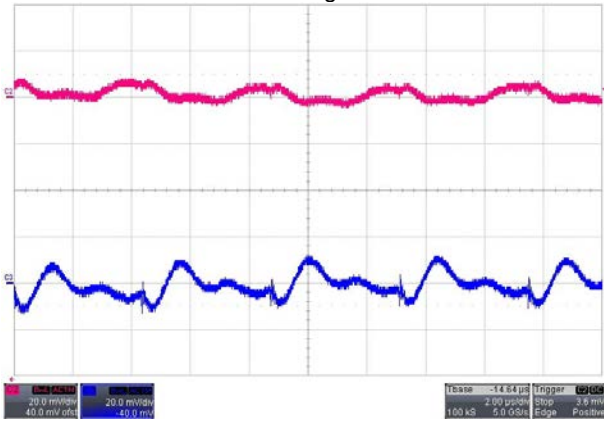Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃ .The figures are identical for PMM20-48D05W

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-48D12W

Efficiency Versus Output Load

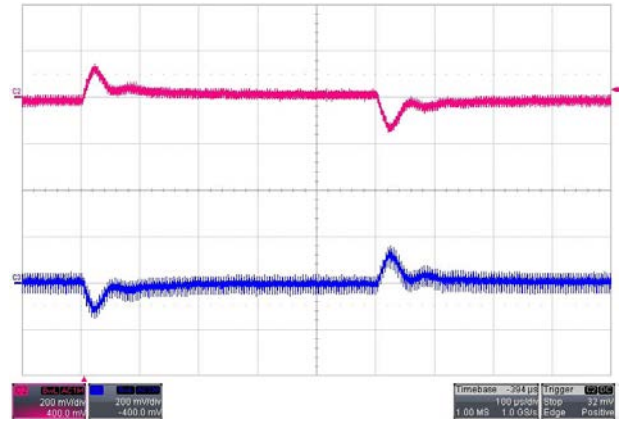Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

Derating Output Load Versus Ambient Temperature and Airflow
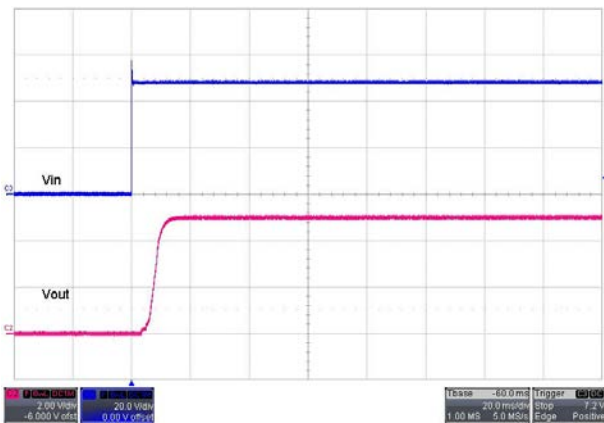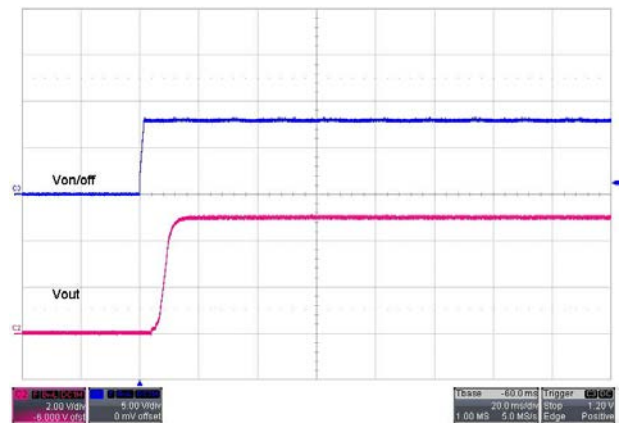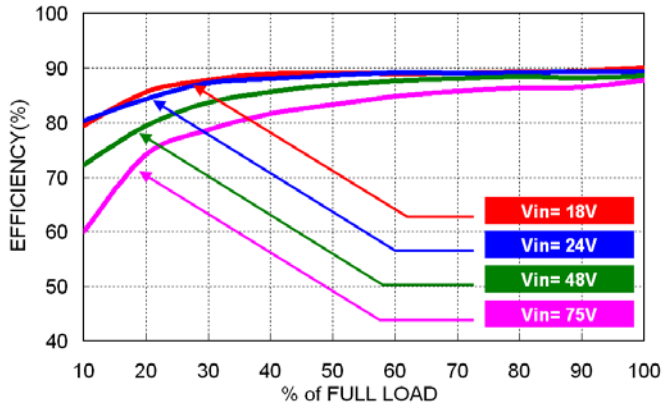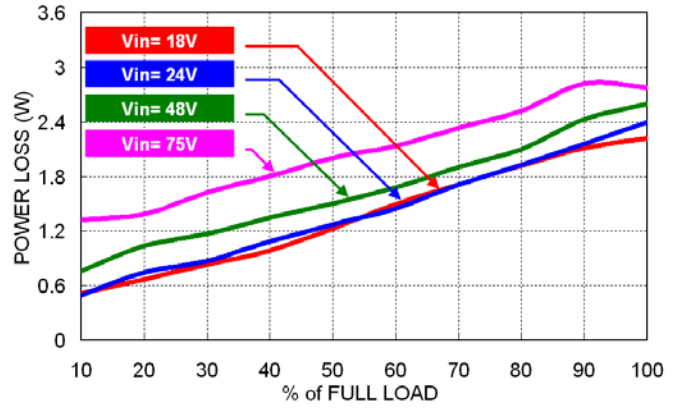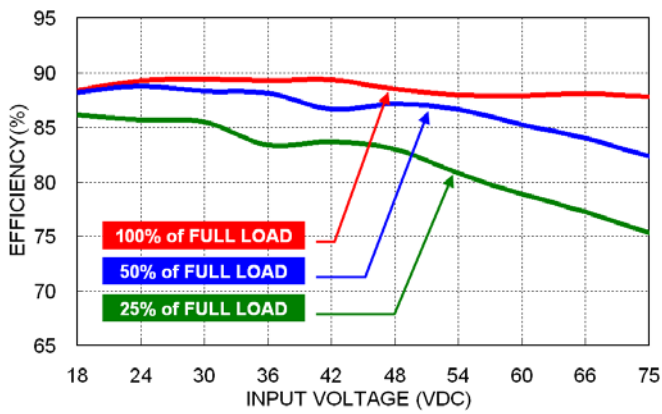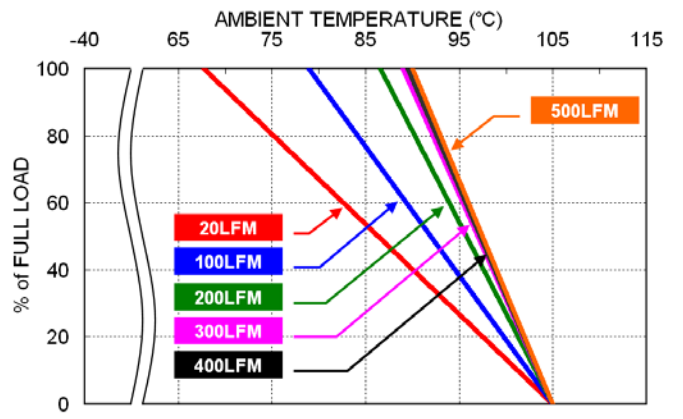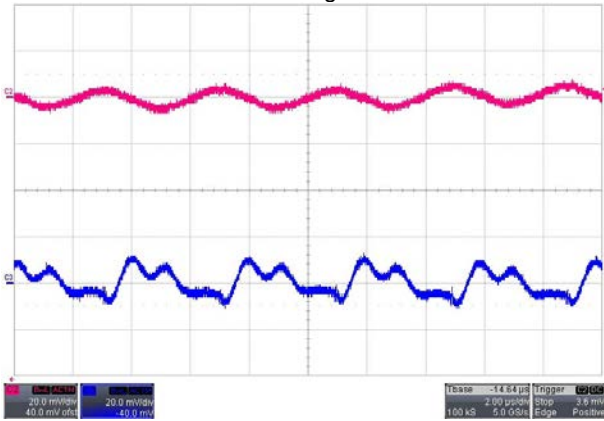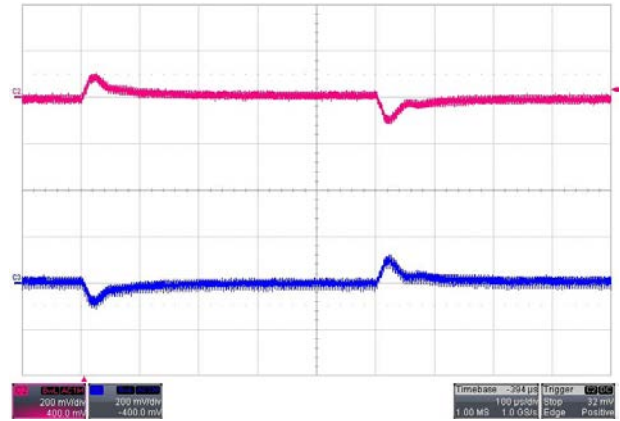Vin(nom)

POWERBOX Medline

PMM20 Series

20W 2:1 & 4:1 Single and Dual Output

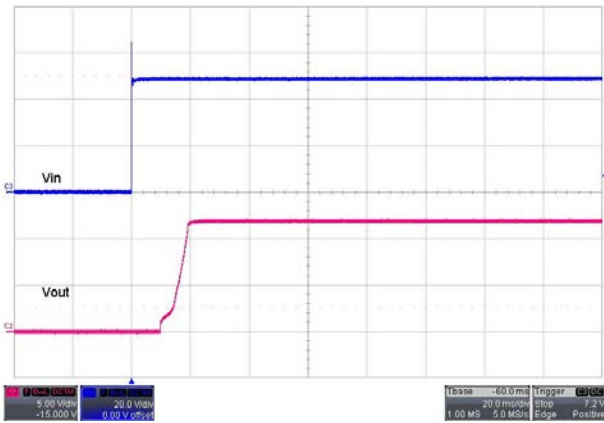Medical DC/DC Converter

Characteristic Curves

All test conditions are at 25℃.The figures are identical for PMM20-48D12W
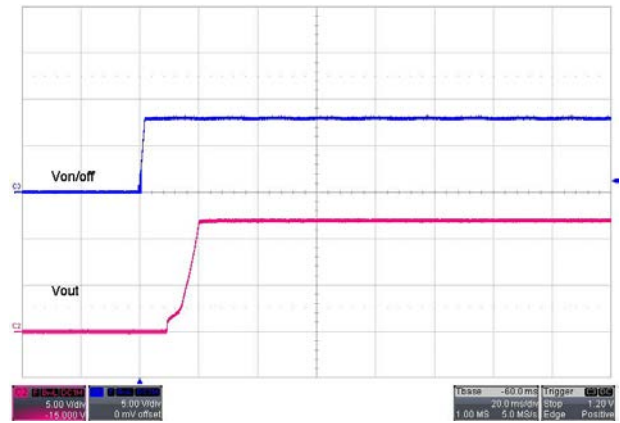

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
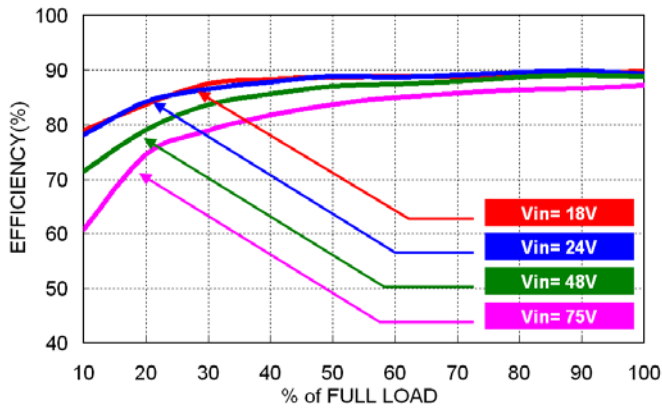100% to 75% to 100% of Full Load ; Vin(nom)

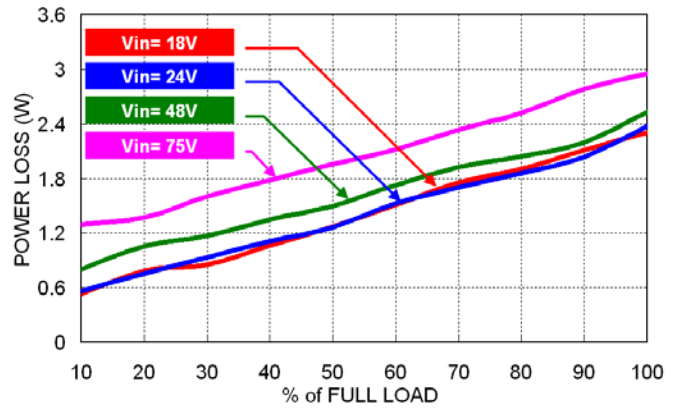Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
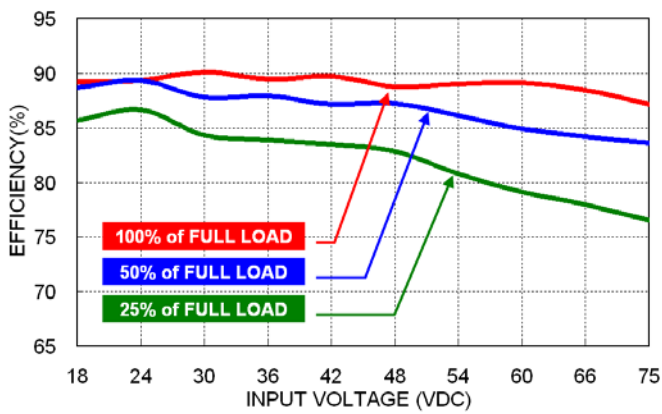Characteristic Curves

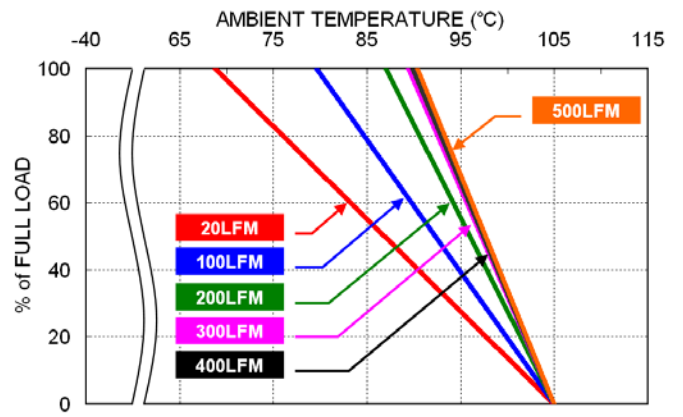All test conditions are at 25℃.The figures are identical for PMM20-48D15W

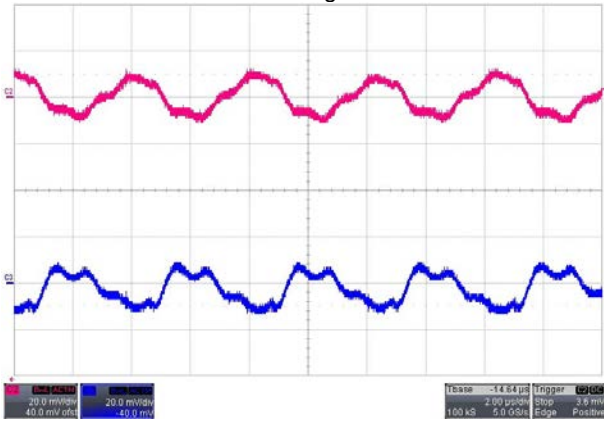Efficiency Versus Output Load

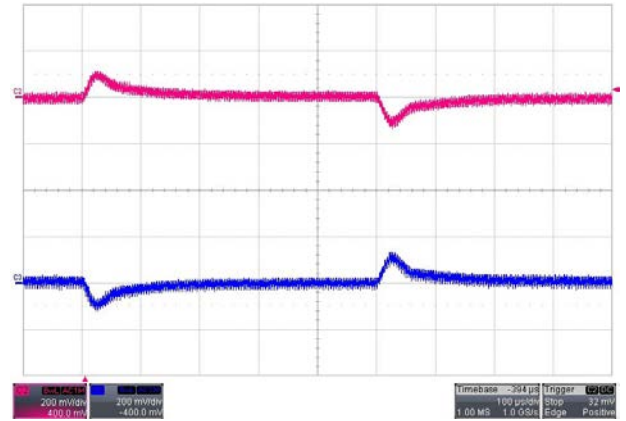Power Dissipation Versus Output Load

Efficiency Versus Input Voltage.

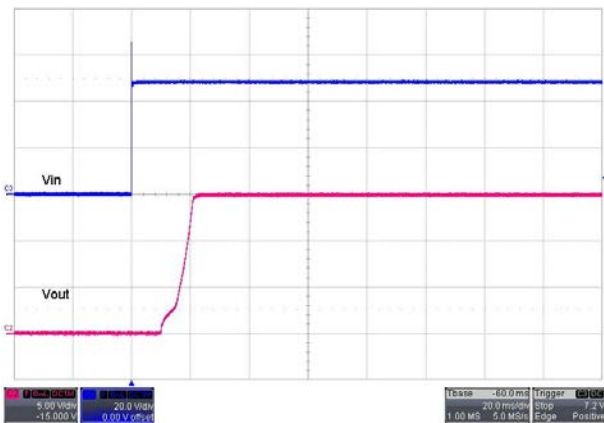Derating Output Load Versus Ambient Temperature and Airflow Vin(nom)

POWERBOX Medline
PMM20 Series
20W 2:1 & 4:1 Single and Dual Output
Medical DC/DC Converter
Characteristic Curves

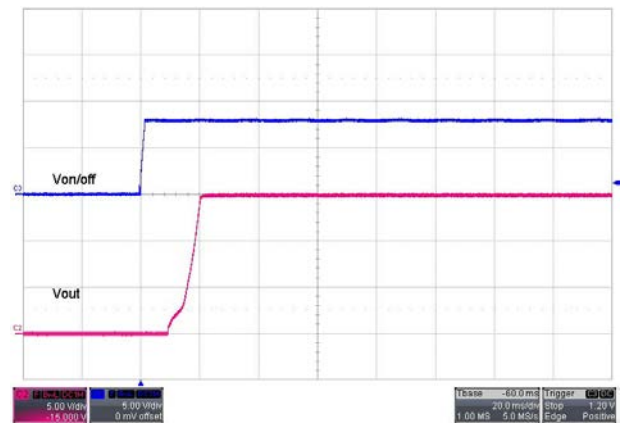All test conditions are at 25℃.The figures are identical for PMM20-48D15W

Typical Output Ripple and Noise.
Vin(nom), Full Load

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load ; Vin(nom)

Typical Input Start-Up and Output Rise Characteristic
Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin(nom), Full Load