Characteristic Curves
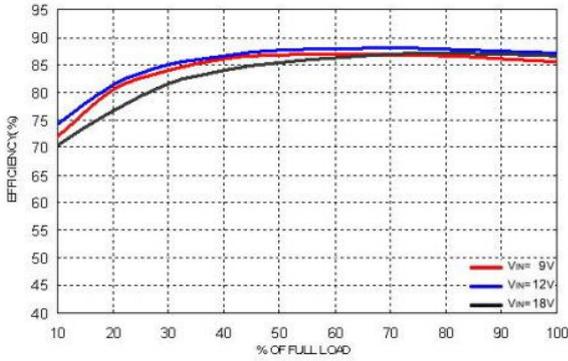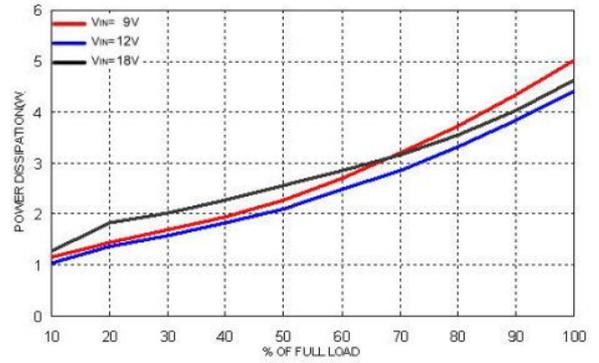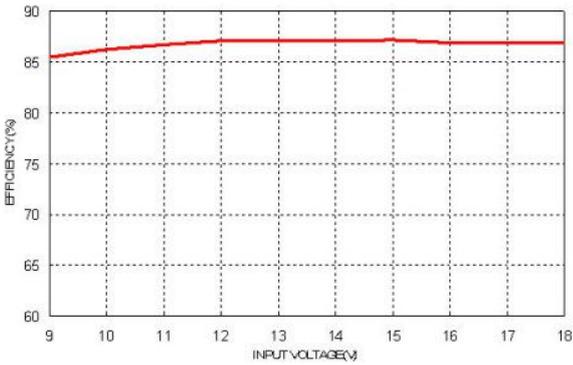
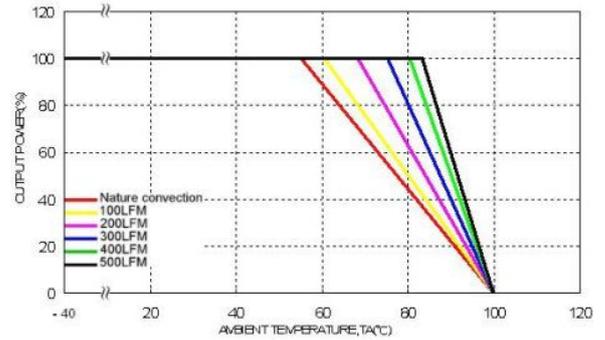All test conditions are at 25℃.The figures are identical for FEC30-12D12
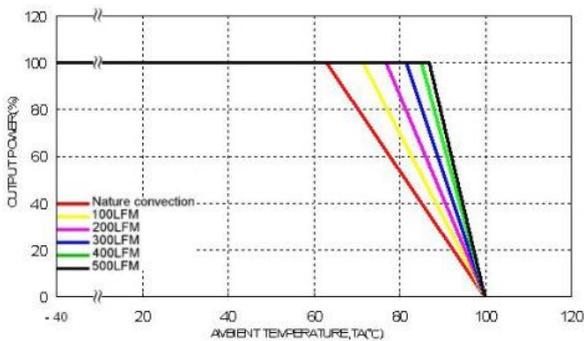
Efficiency Versus Output Load

Power Dissipation Versus Output Load

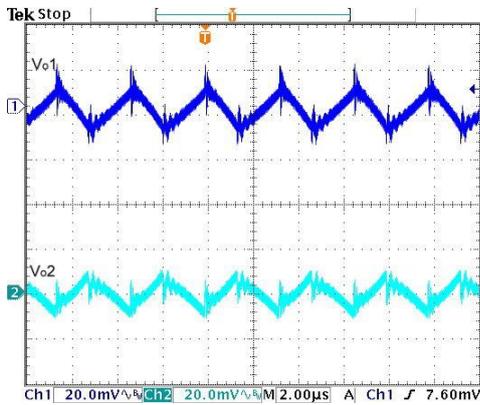Efficiency Versus Input Voltage. Full Load

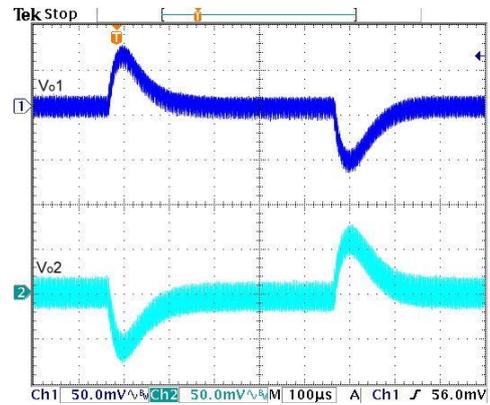Derating Output Load Versus Ambient Temperature and Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)
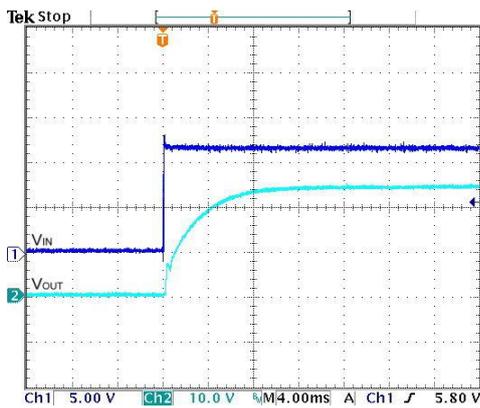
Characteristic Curves (Continued)

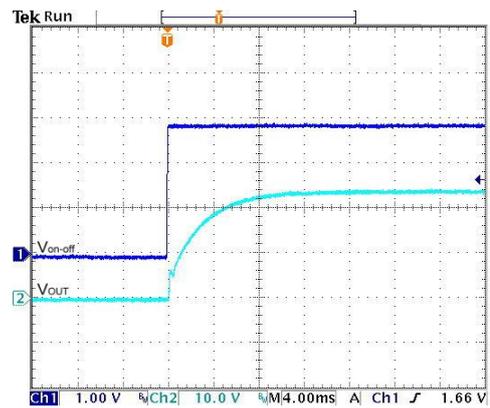All test conditions are at 25℃.The figures are identical for FEC30-12D12

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

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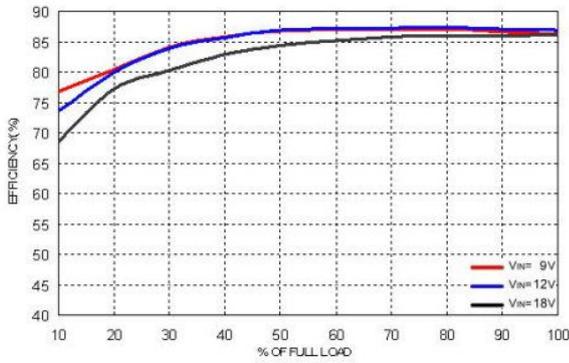100% to 75% to 100% of Full Load , Vin=Vin(nom)

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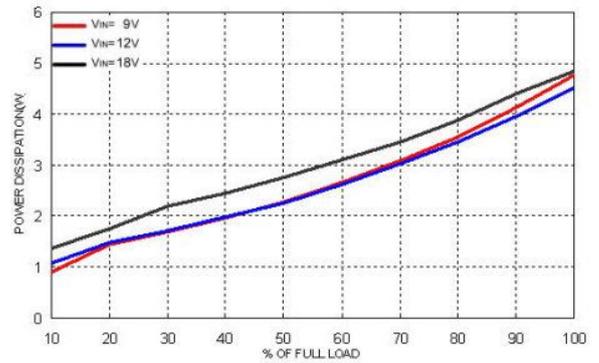Vin=Vin(nom), Full Load

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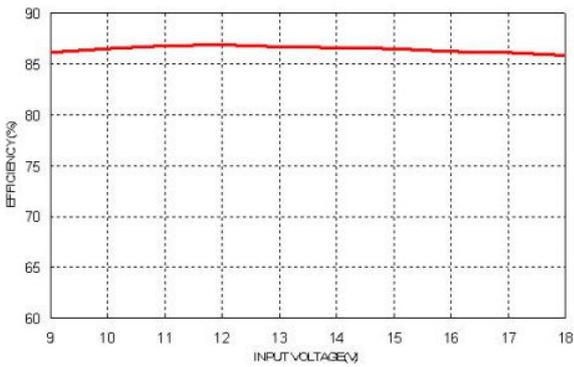Vin=Vin(nom), Full Load

P-DUKE
P-DUKE POWER

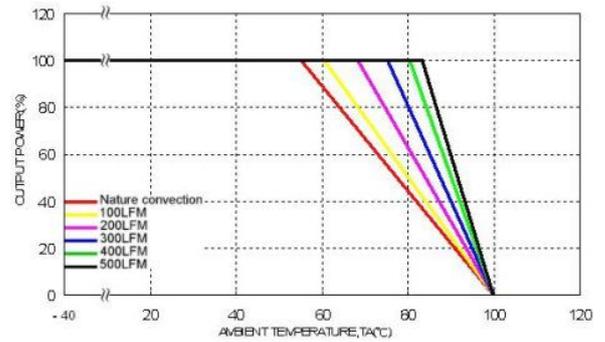All test conditions are at 25℃.The figures are identical for FEC30-12D15
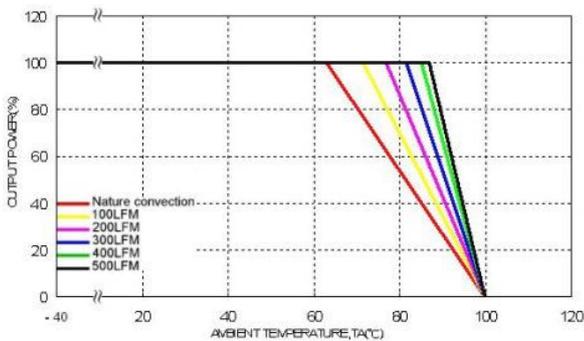
Efficiency Versus Output Load

Power Dissipation Versus Output Load
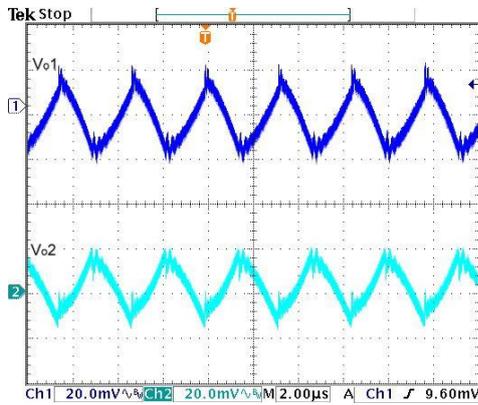
Efficiency Versus Input Voltage. Full Load

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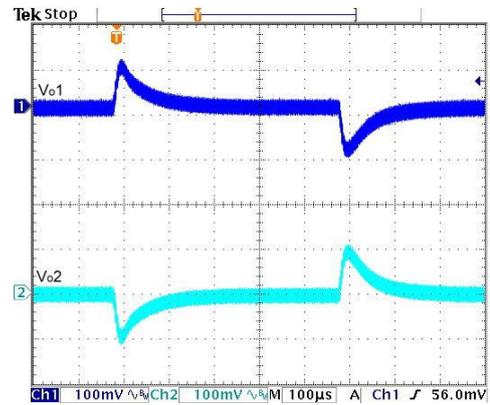Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
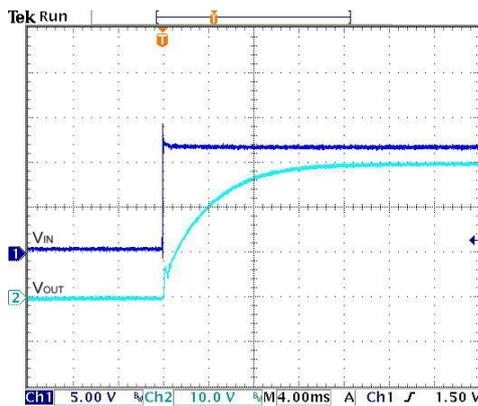and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12D15
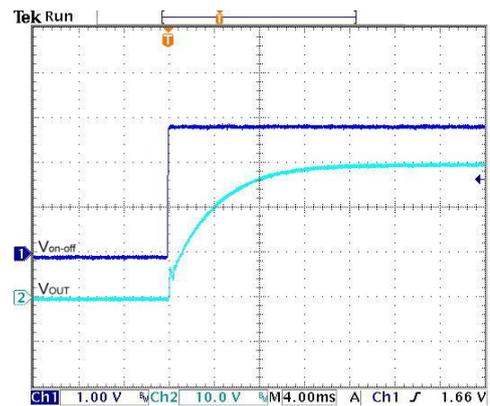

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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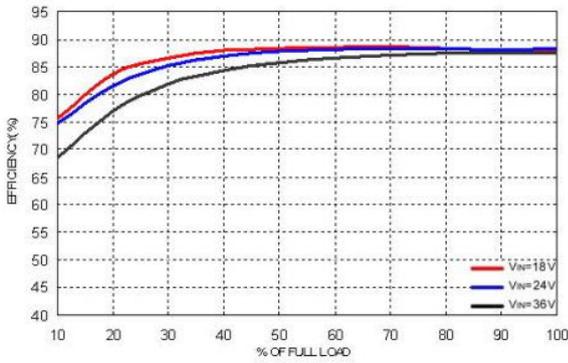100% to 75% to 100% of Full Load , Vin=Vin(nom)

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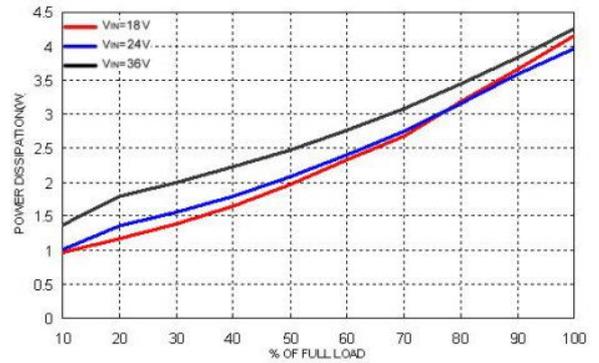Vin=Vin(nom), Full Load

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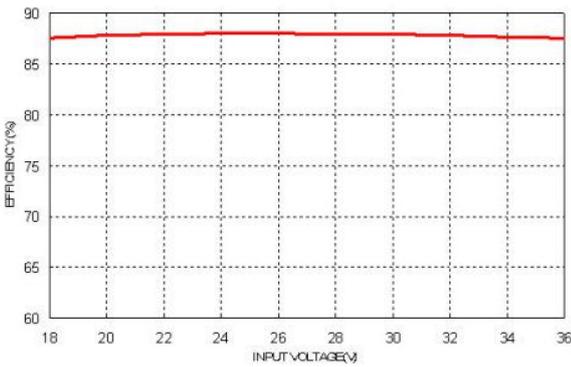
Characteristic Curves (Continued)

All test conditions are at 25℃. The figures are identical for FEC30-24D12
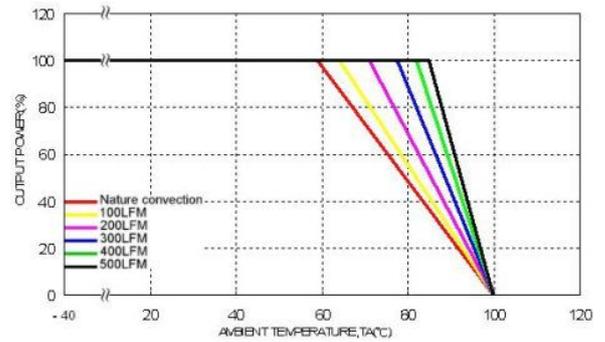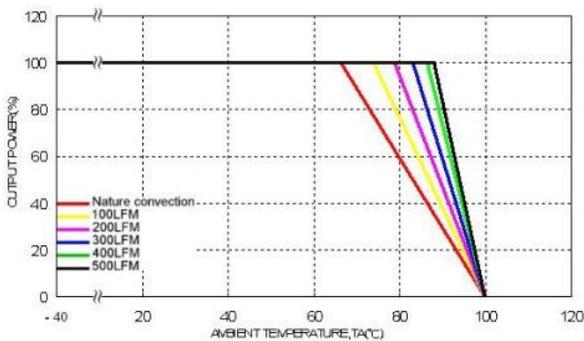

Efficiency Versus Output Load

Power Dissipation Versus Output Load
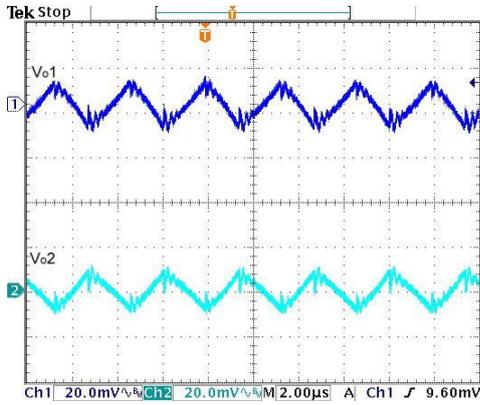

Efficiency Versus Input Voltage. Full Load

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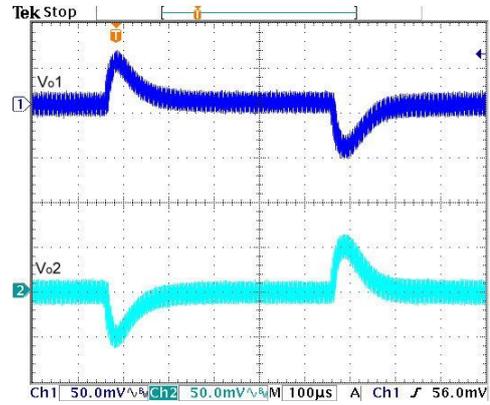

Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)
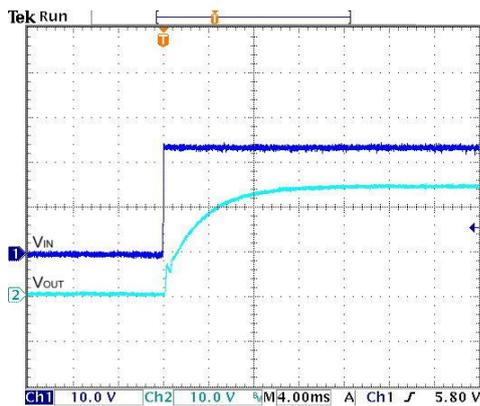
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24D12
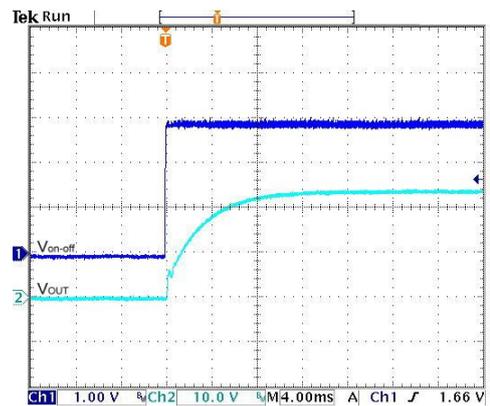

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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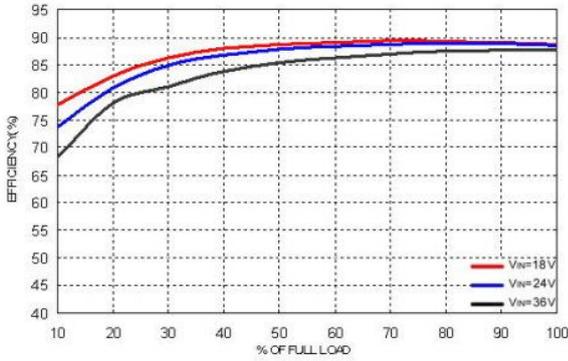100% to 75% to 100% of Full Load , Vin=Vin(nom)

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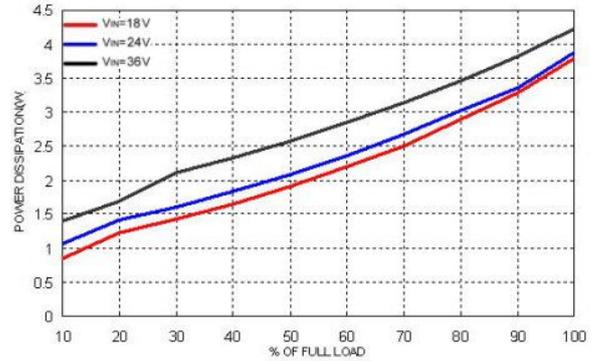Vin=Vin(nom), Full Load

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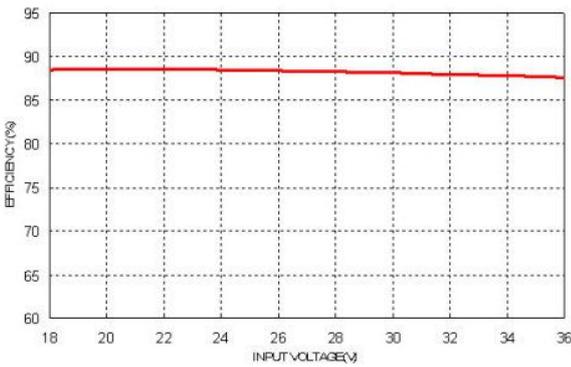Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24D15
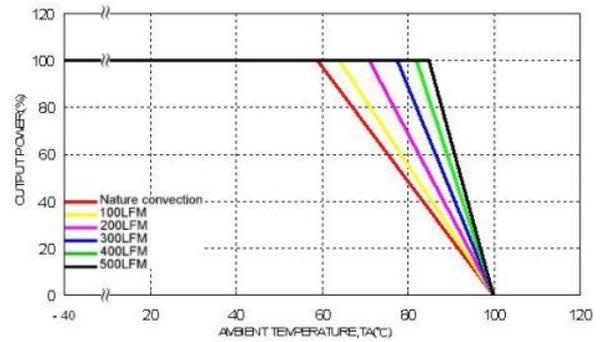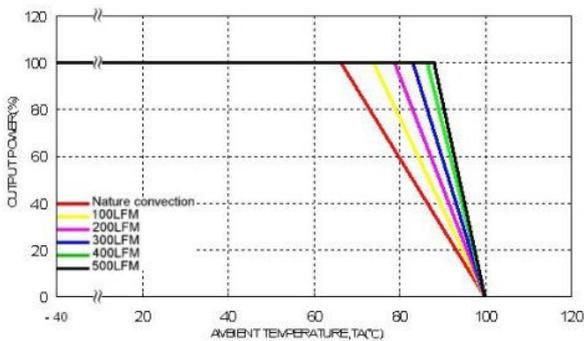

Efficiency Versus Output Load

Power Dissipation Versus Output Load

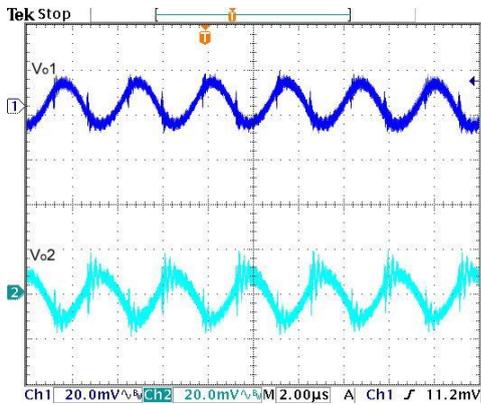Efficiency Versus Input Voltage. Full Load

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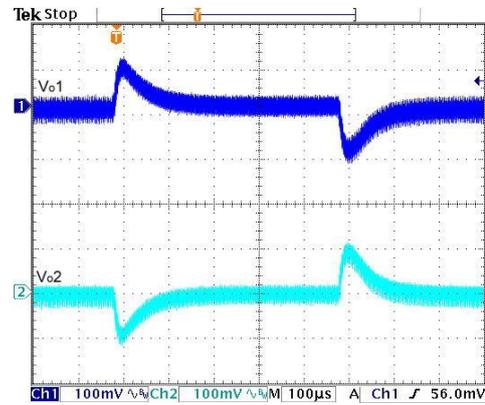Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
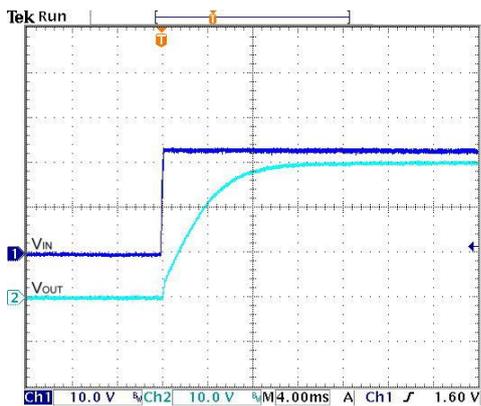and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24D15
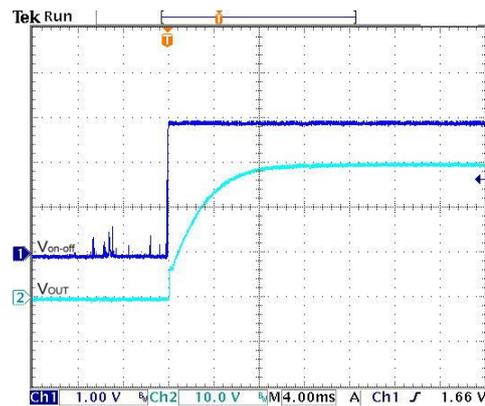
Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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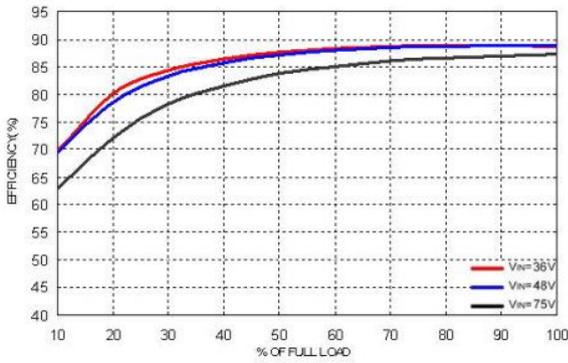100% to 75% to 100% of Full Load , Vin=Vin(nom)

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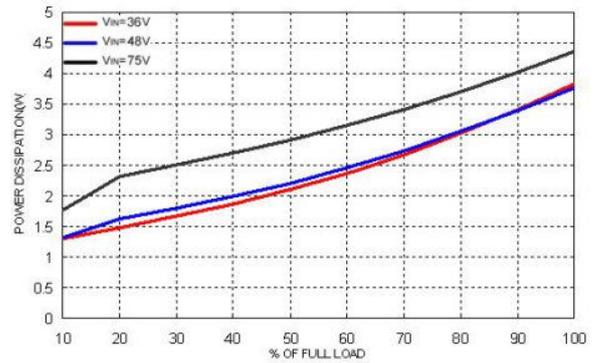Vin=Vin(nom), Full Load

Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin=Vin(nom), Full Load
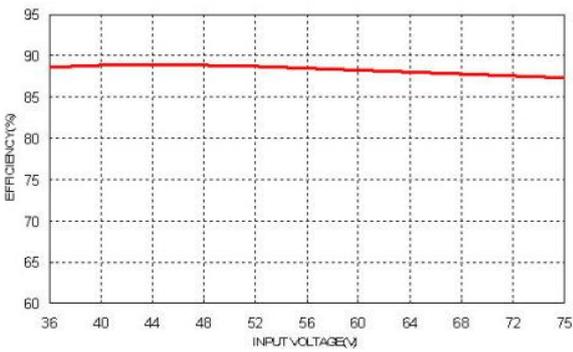
P-DUKE TECHNOLOGY CO., LTD.

P-DUKE POWER

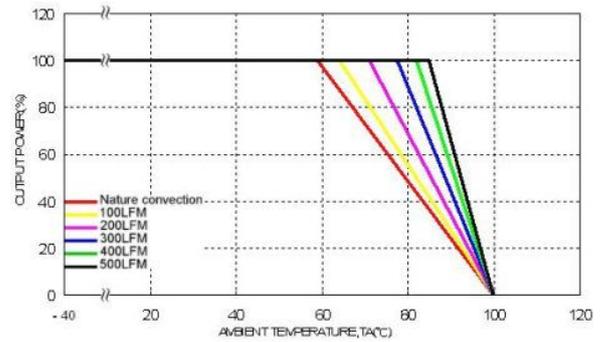All test conditions are at 25℃.The figures are identical for FEC30-48D12
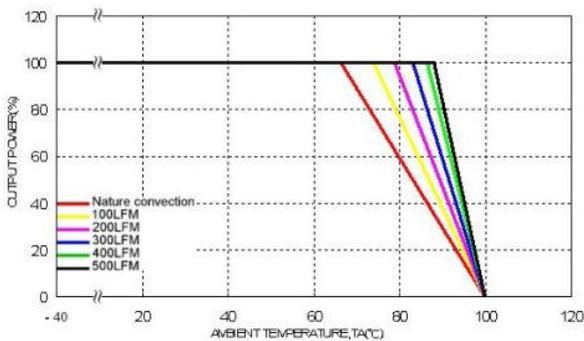
Efficiency Versus Output Load

Power Dissipation Versus Output Load

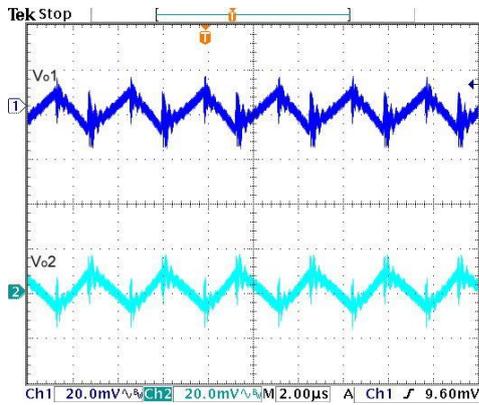Efficiency Versus Input Voltage. Full Load

Derating Output Load Versus Ambient Temperature and Airflow Vin=Vin(nom)
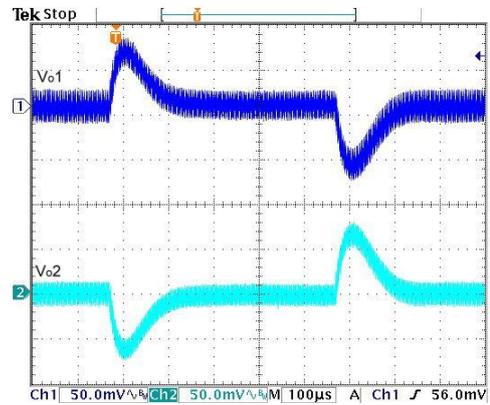
Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)
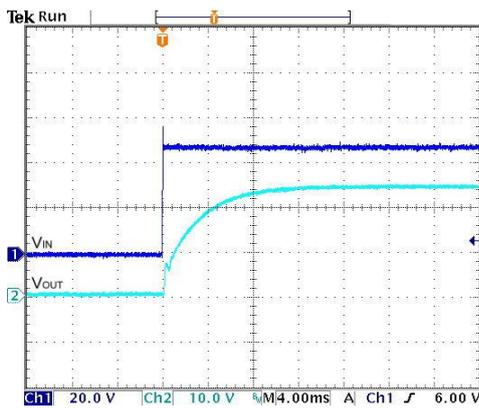
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48D12
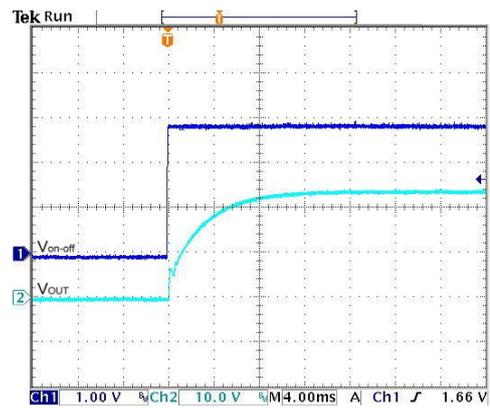
Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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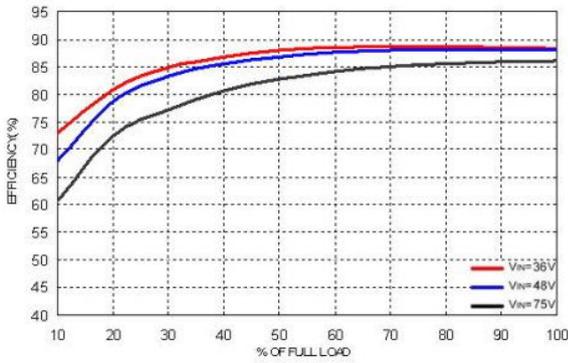100% to 75% to 100% of Full Load , Vin=Vin(nom)

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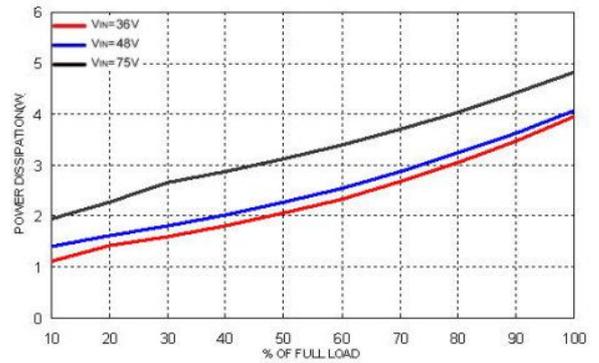Vin=Vin(nom), Full Load

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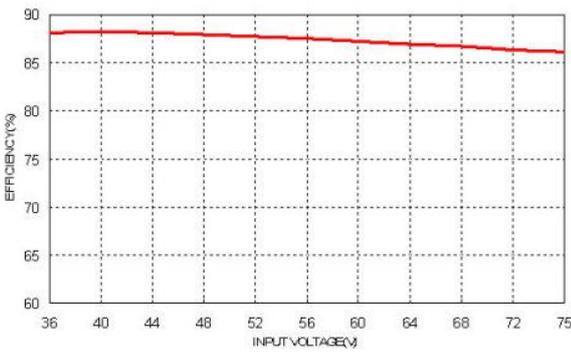Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48D15
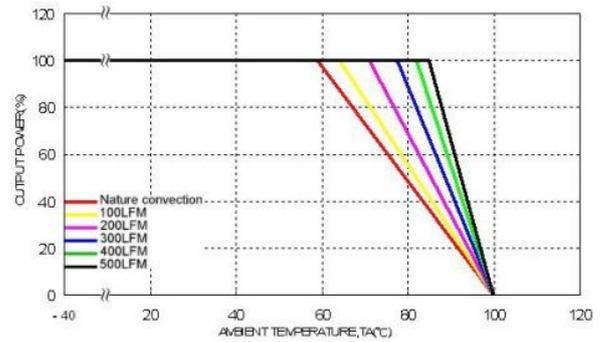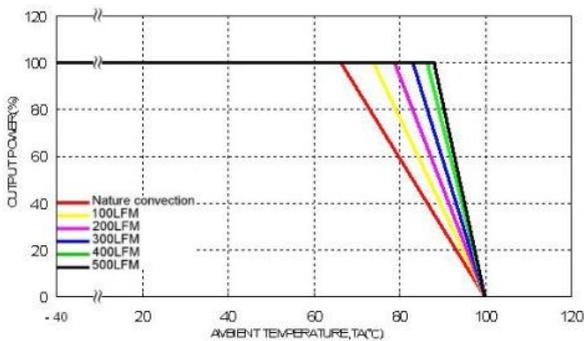

Efficiency Versus Output Load

Power Dissipation Versus Output Load

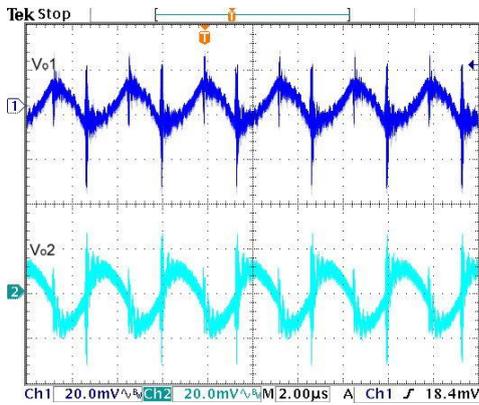Efficiency Versus Input Voltage. Full Load

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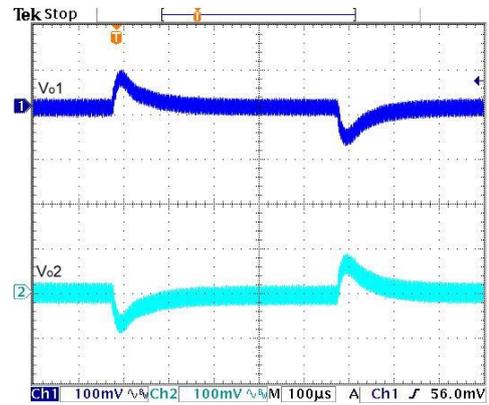Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
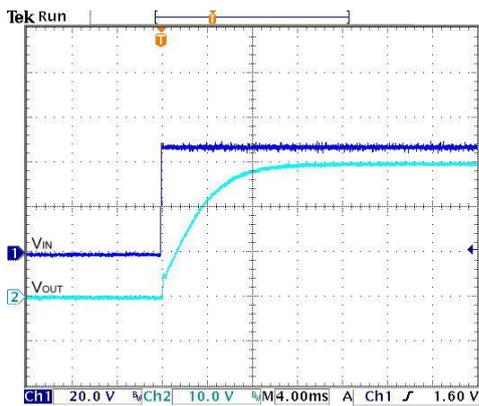and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48D15
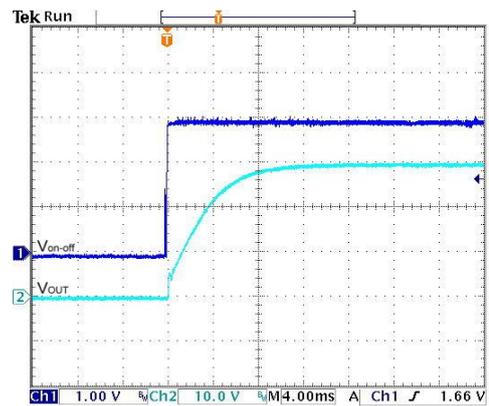
Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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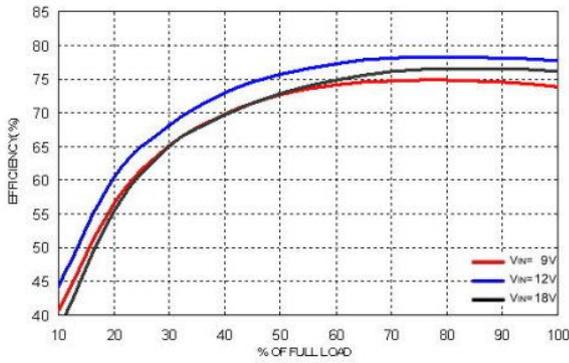100% to 75% to 100% of Full Load , Vin=Vin(nom)

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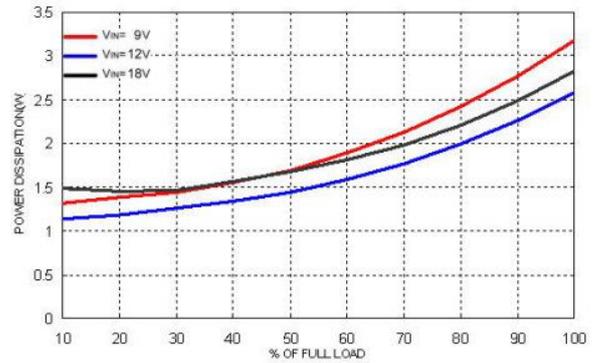Vin=Vin(nom), Full Load

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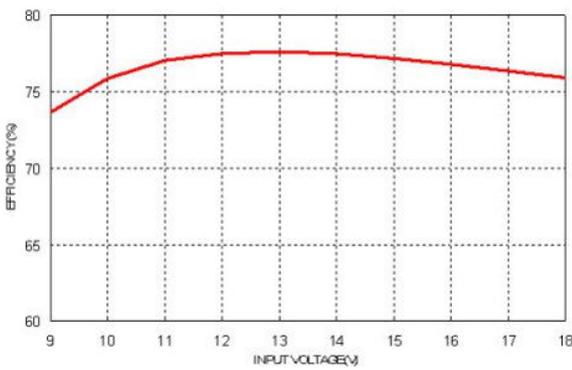Vin=Vin(nom), Full Load

All test conditions are at 25℃.The figures are identical for FEC30-12S1P5
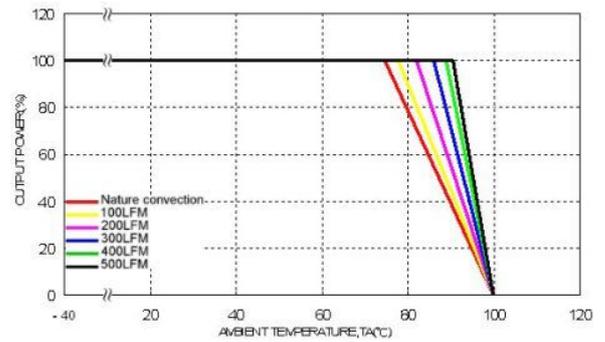

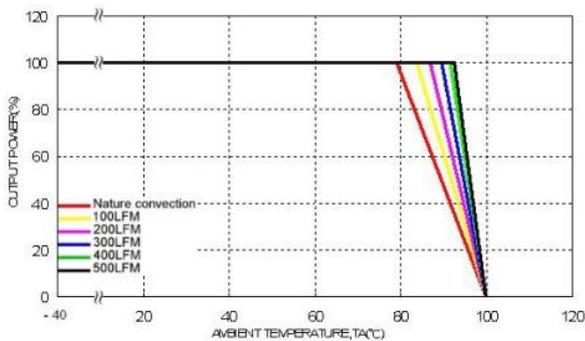Efficiency Versus Output Load

Power Dissipation Versus Output Load
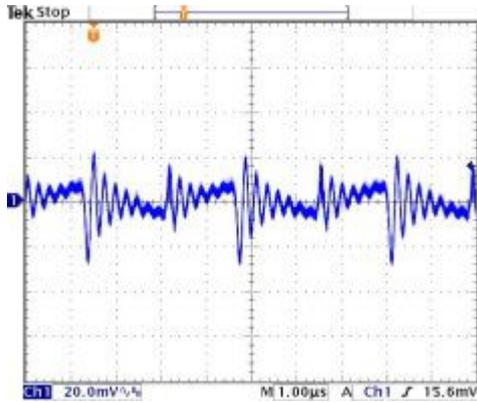

Efficiency Versus Input Voltage. Full Load

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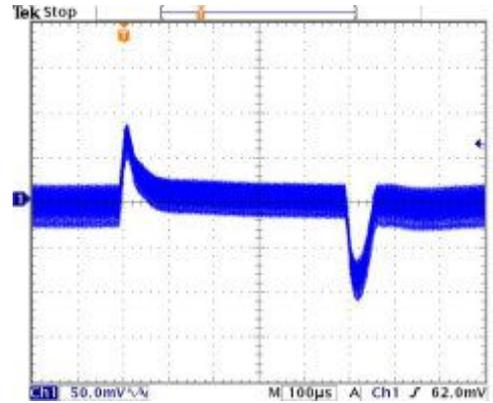Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)
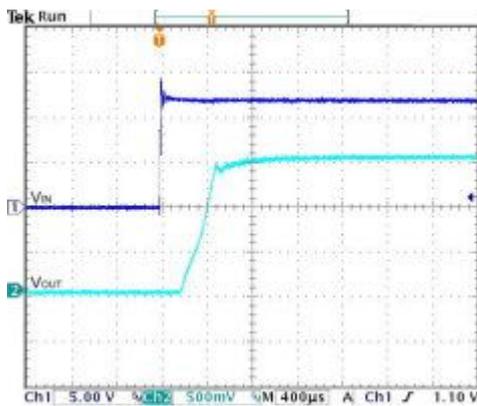
Characteristic Curves (Continued)

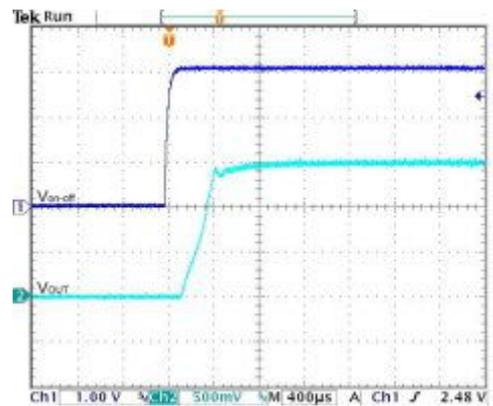All test conditions are at 25℃.The figures are identical for FEC30-12S1P5

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

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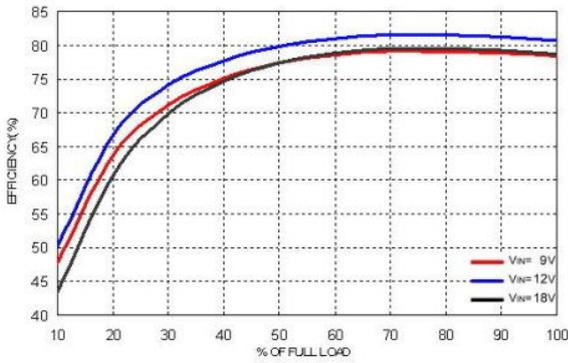100% to 75% to 100% of Full Load , Vin=Vin(nom)

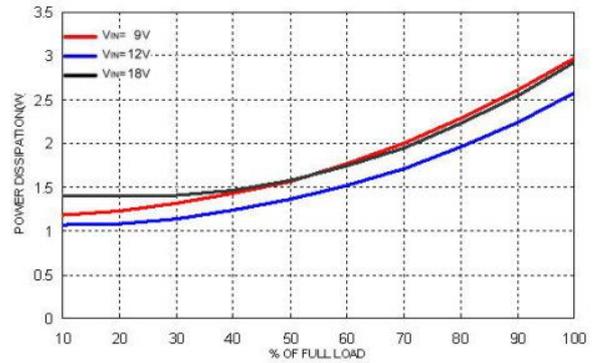Typical Input Start-Up and Output Rise Characteristic
Vin=Vin(nom), Full Load

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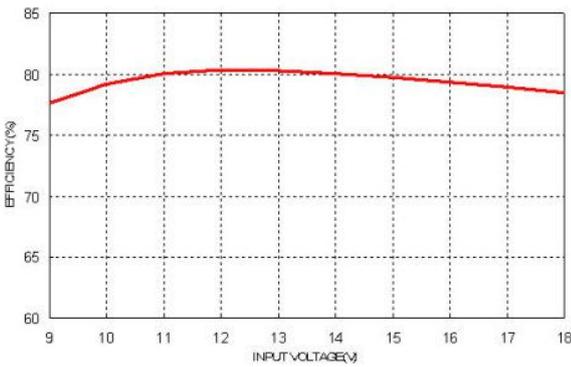Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S1P8
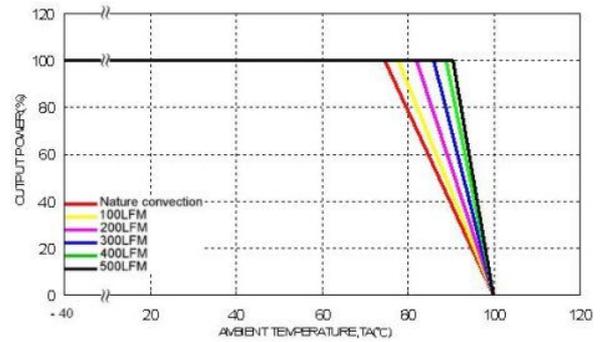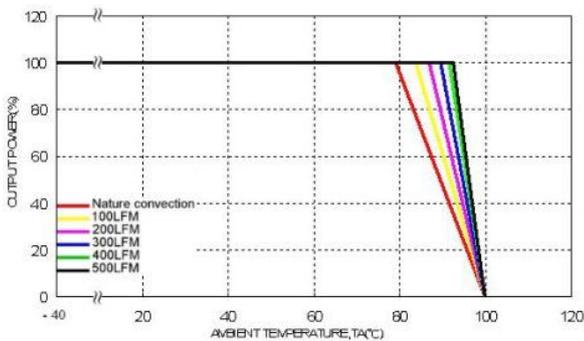

Efficiency Versus Output Load

Power Dissipation Versus Output Load
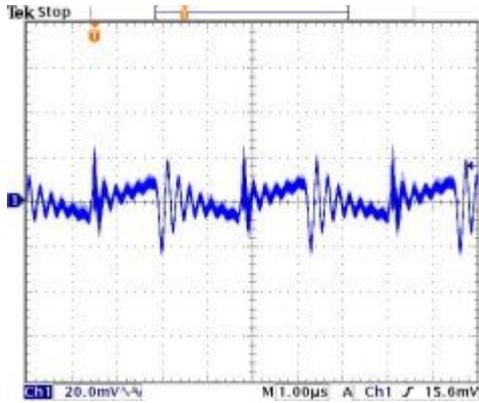

Efficiency Versus Input Voltage. Full Load

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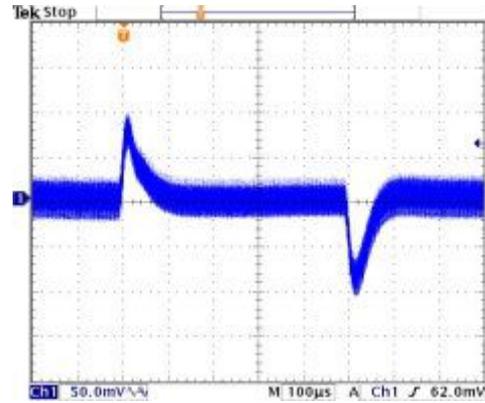Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
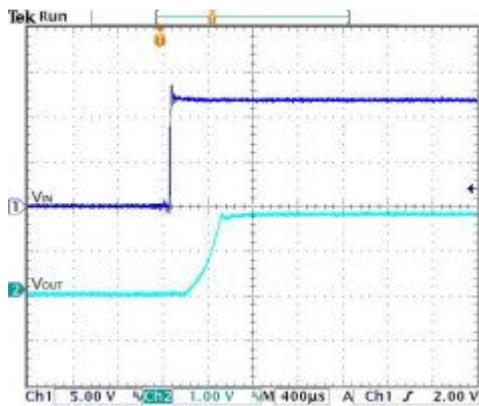and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S1P8
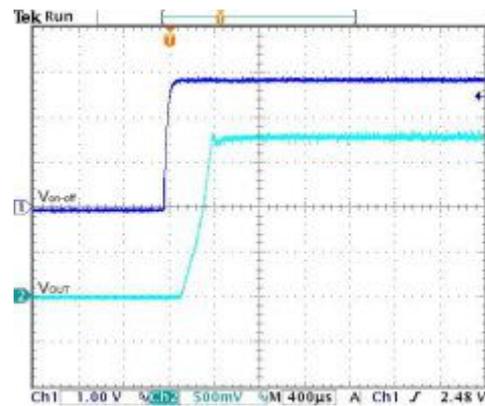
Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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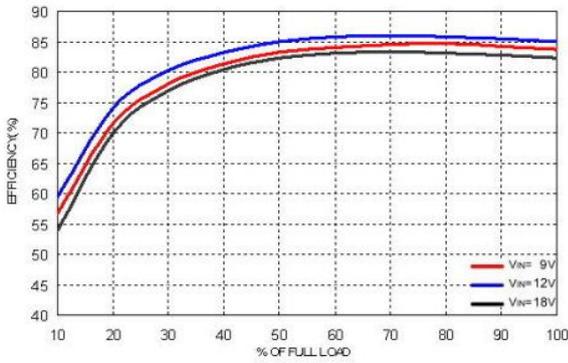100% to 75% to 100% of Full Load , Vin=Vin(nom)

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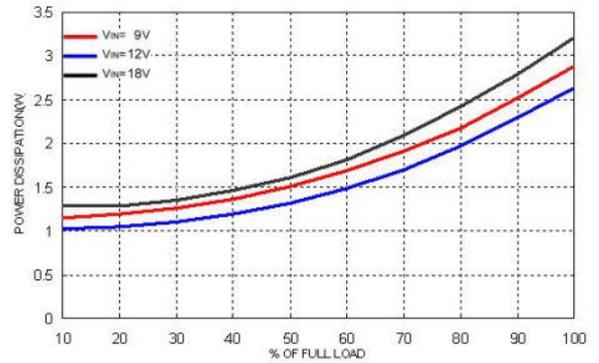Vin=Vin(nom), Full Load

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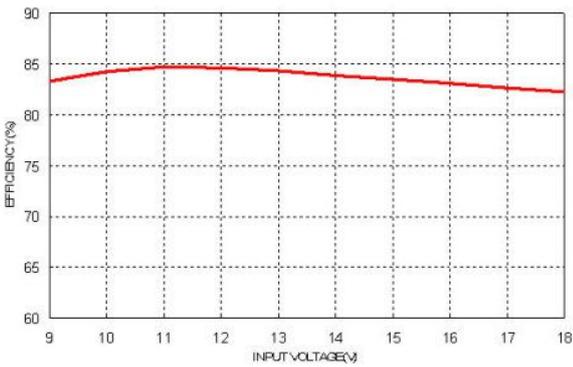Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S2P5
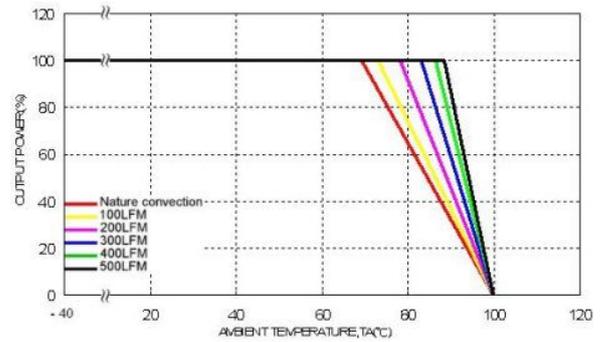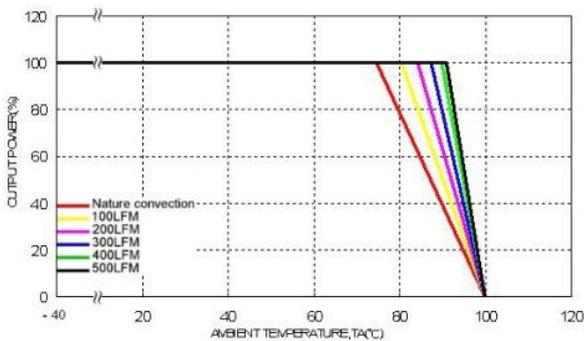

Efficiency Versus Output Load

Power Dissipation Versus Output Load
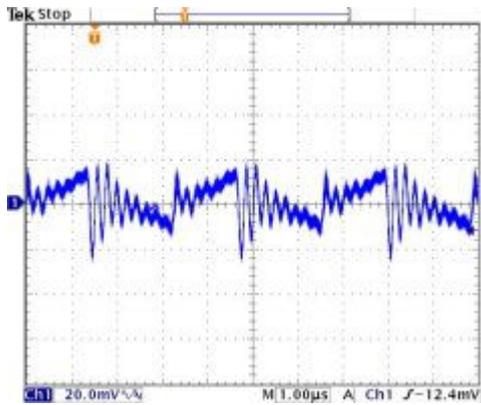

Efficiency Versus Input Voltage. Full Load

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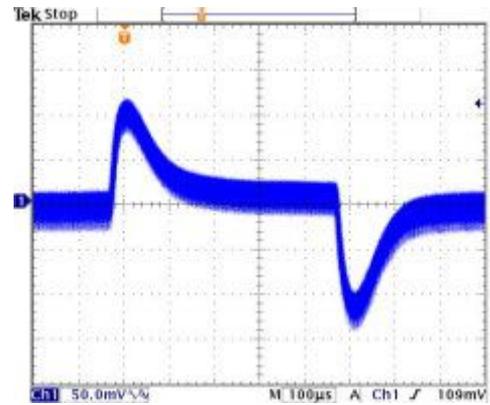Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)
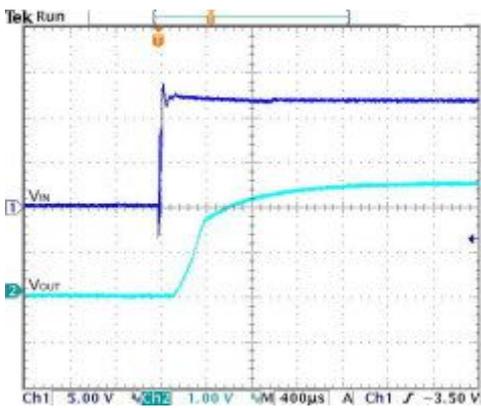
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S2P5
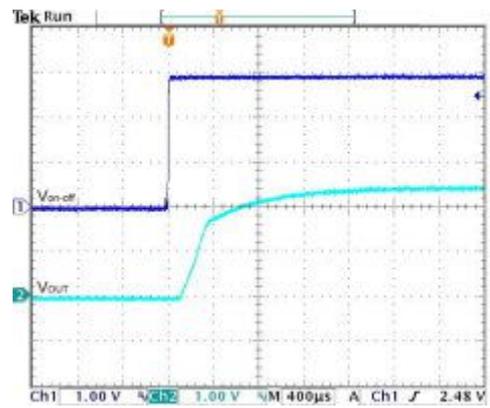

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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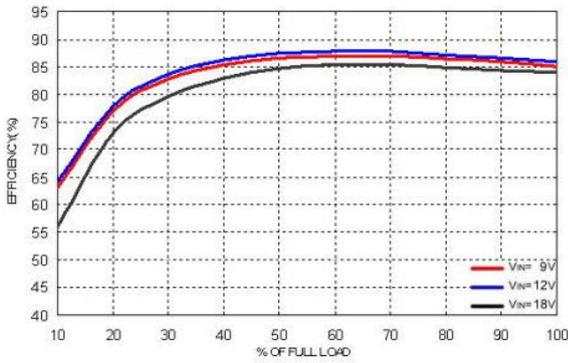100% to 75% to 100% of Full Load , Vin=Vin(nom)

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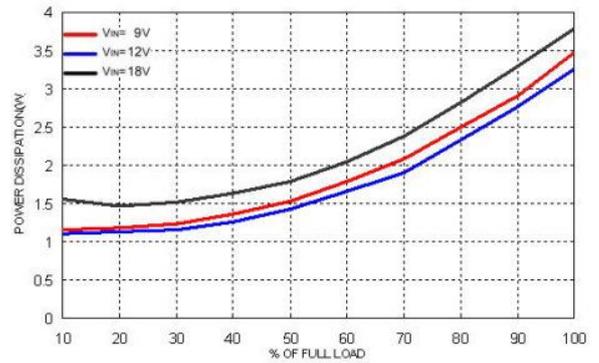Vin=Vin(nom), Full Load

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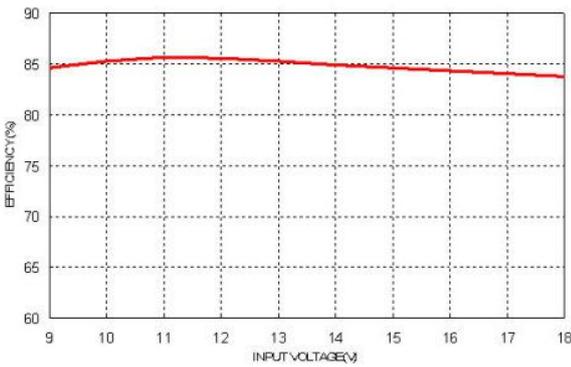
P-DUKE POWER

Characteristic Curves (Continued)

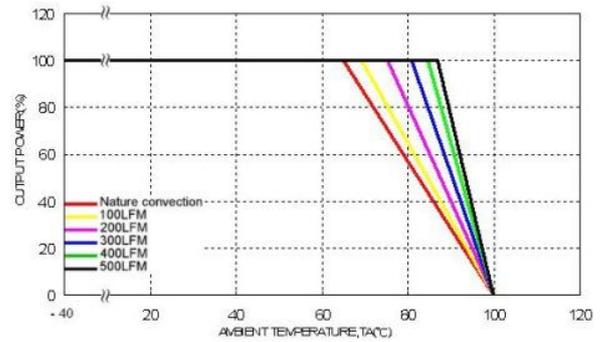All test conditions are at 25℃.The figures are identical for FEC30-12S3P3
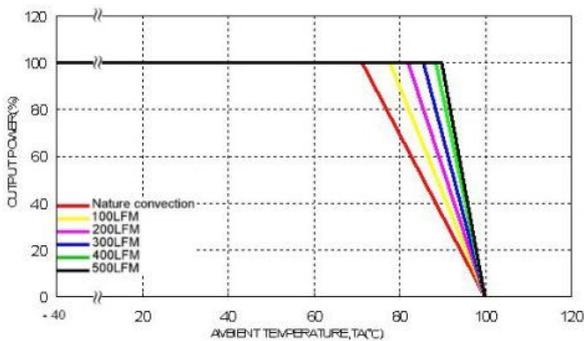
Efficiency Versus Output Load

Power Dissipation Versus Output Load
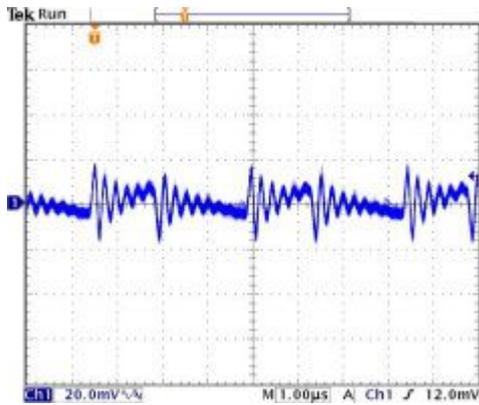
Efficiency Versus Input Voltage. Full Load

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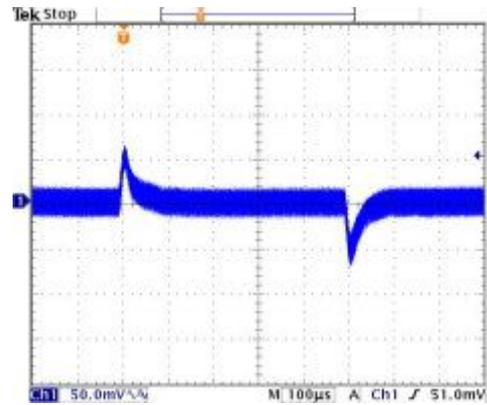Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
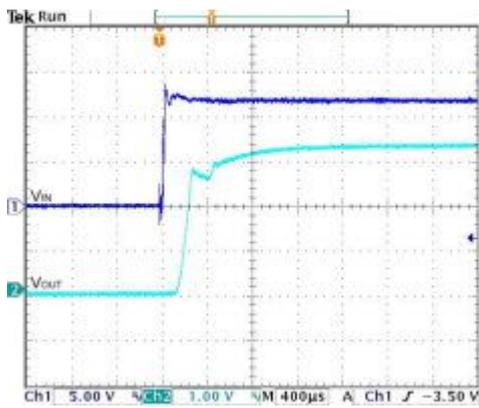and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S3P3
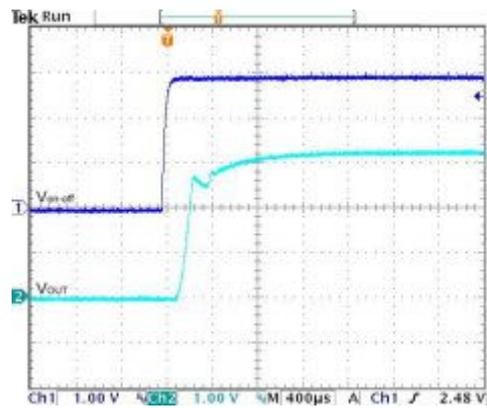

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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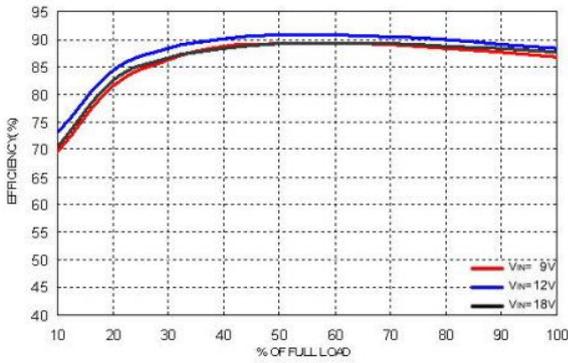100% to 75% to 100% of Full Load , Vin=Vin(nom)

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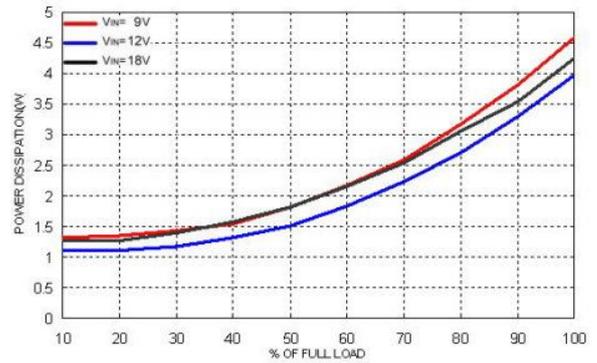Vin=Vin(nom), Full Load

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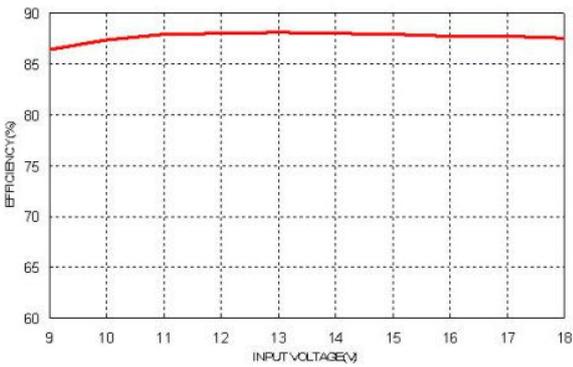Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S05
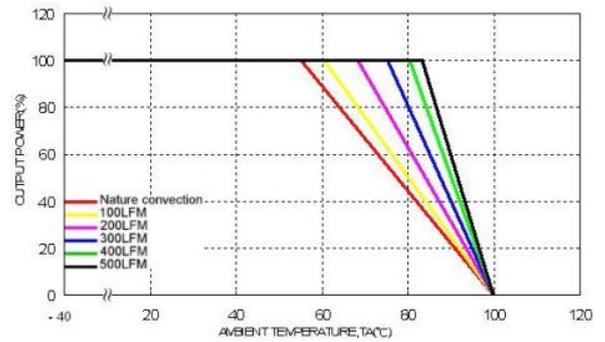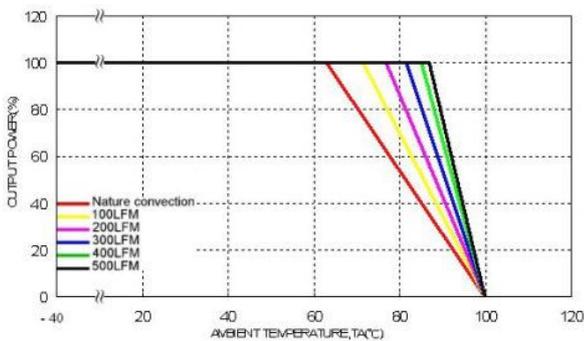

Efficiency Versus Output Load

Power Dissipation Versus Output Load

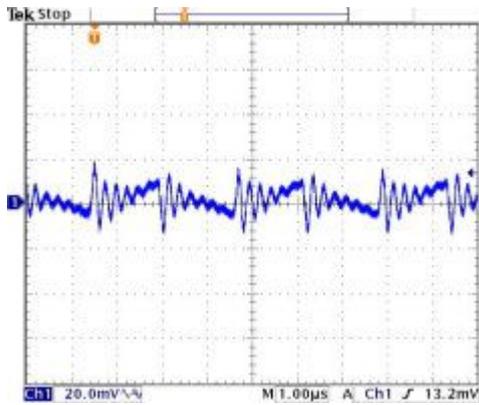Efficiency Versus Input Voltage. Full Load

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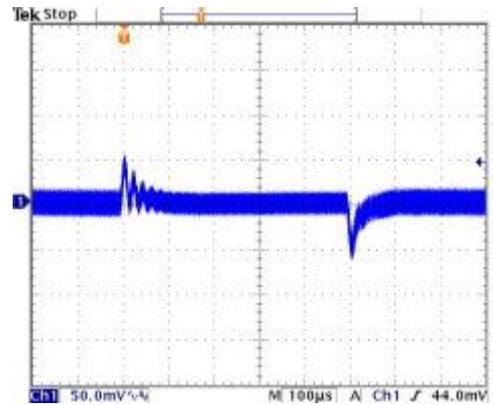

Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)
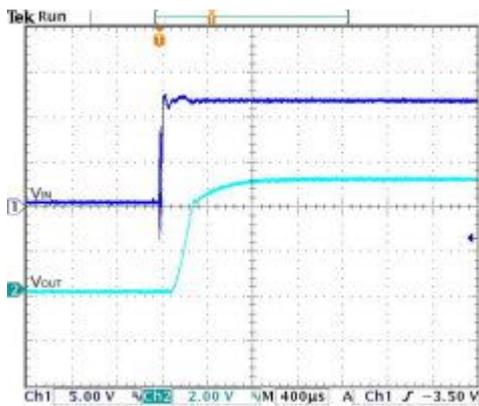
Characteristic Curves (Continued)

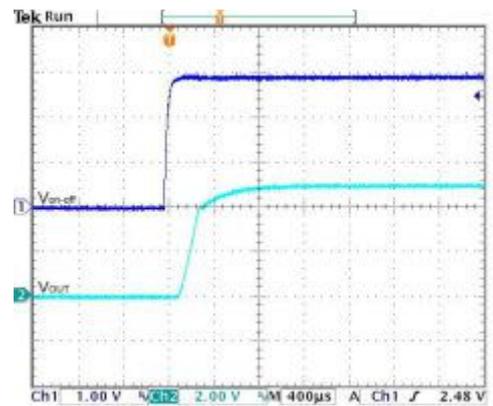All test conditions are at 25℃.The figures are identical for FEC30-12S05

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

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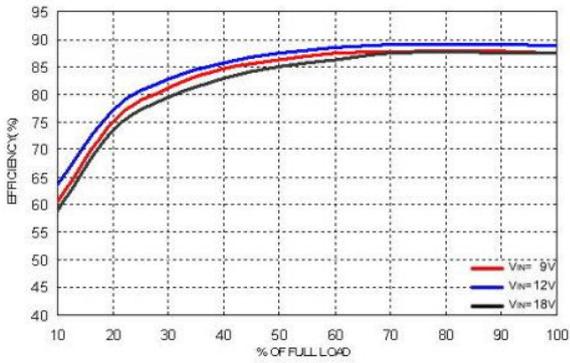100% to 75% to 100% of Full Load , Vin=Vin(nom)

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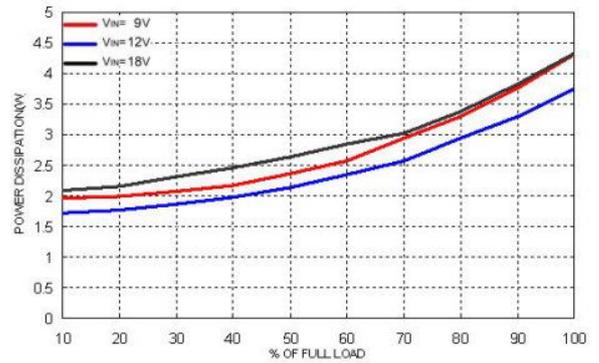Vin=Vin(nom), Full Load

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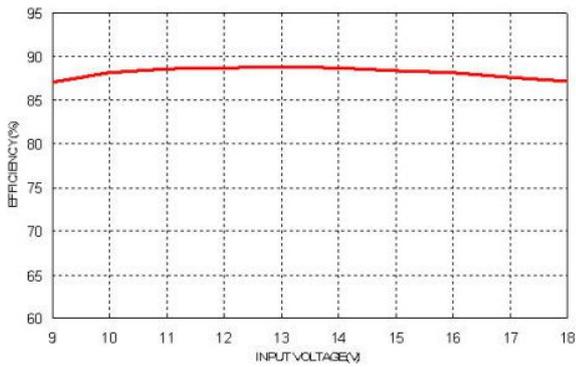
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S12
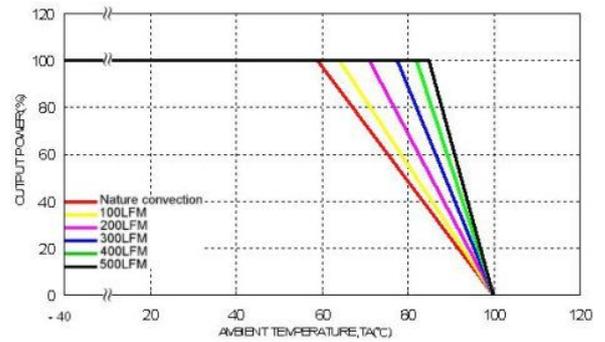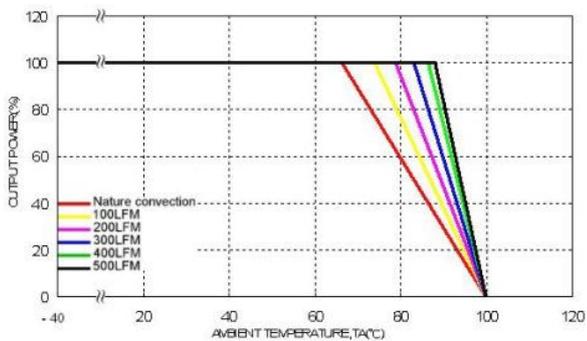
Efficiency Versus Output Load

Power Dissipation Versus Output Load
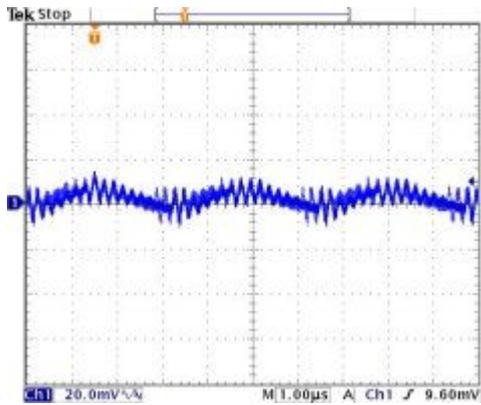
Efficiency Versus Input Voltage. Full Load

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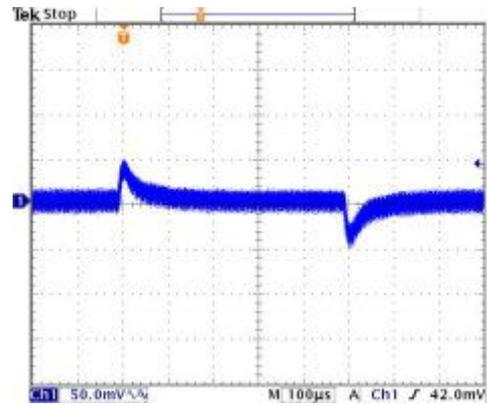Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)
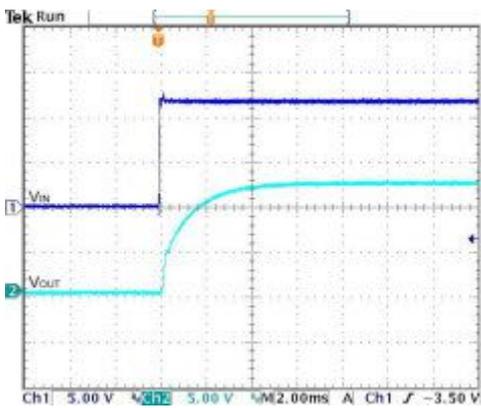
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S12
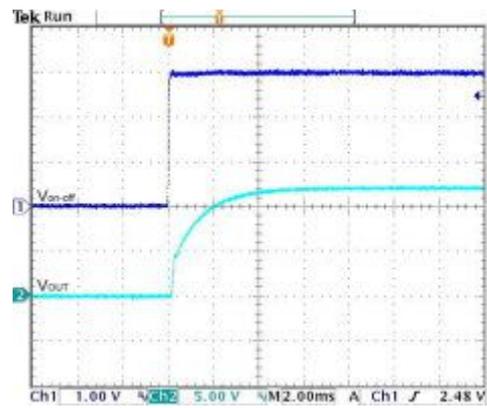

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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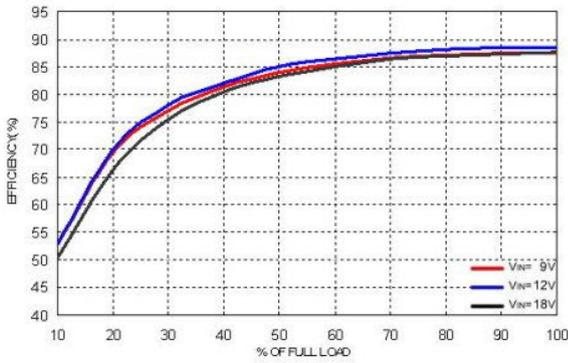100% to 75% to 100% of Full Load , Vin=Vin(nom)

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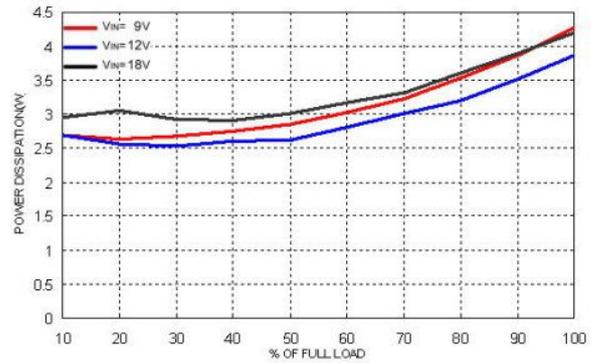Vin=Vin(nom), Full Load

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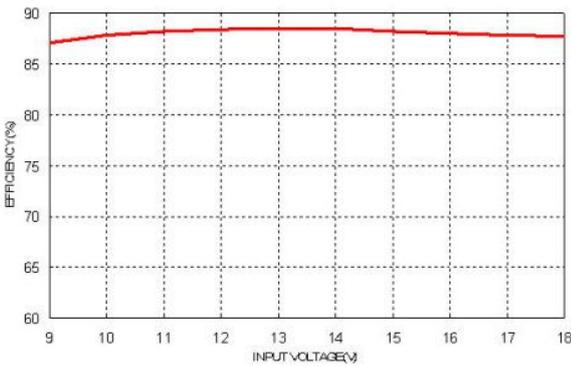
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-12S15
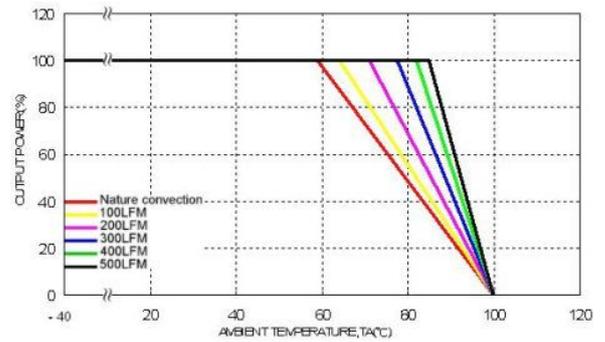

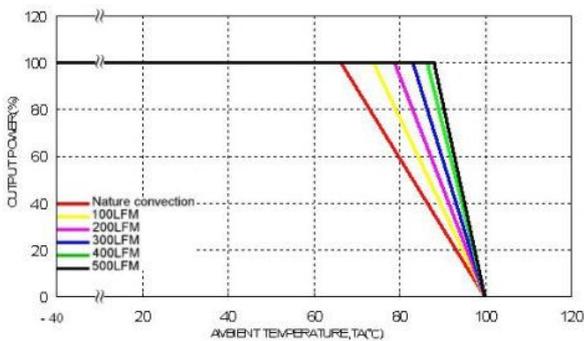Efficiency Versus Output Load

Power Dissipation Versus Output Load
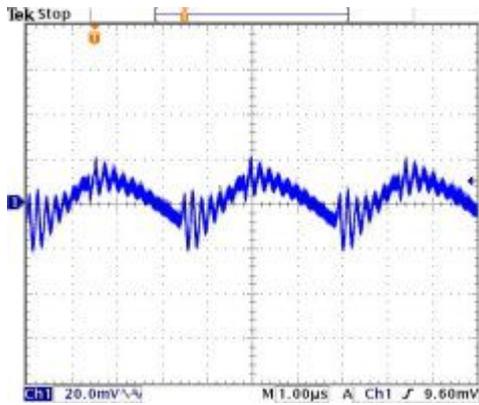

Efficiency Versus Input Voltage. Full Load

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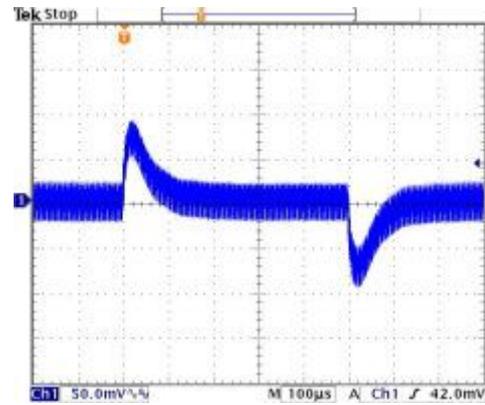

Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)
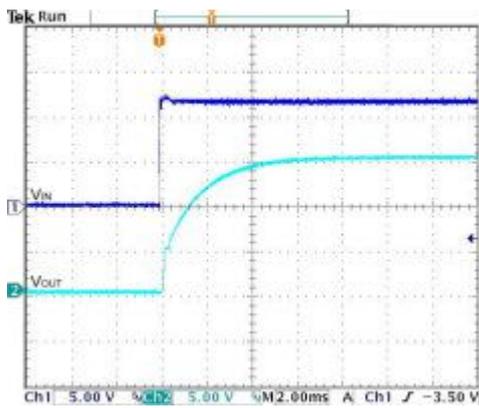
Characteristic Curves (Continued)

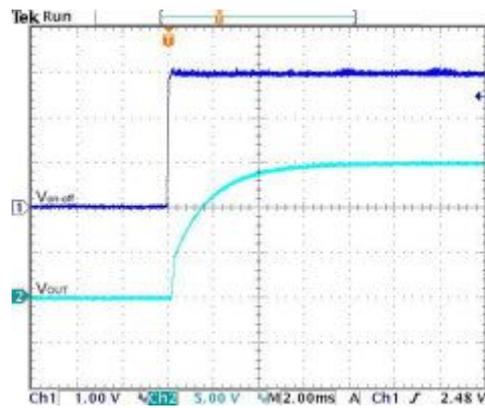All test conditions are at 25℃.The figures are identical for FEC30-12S15

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

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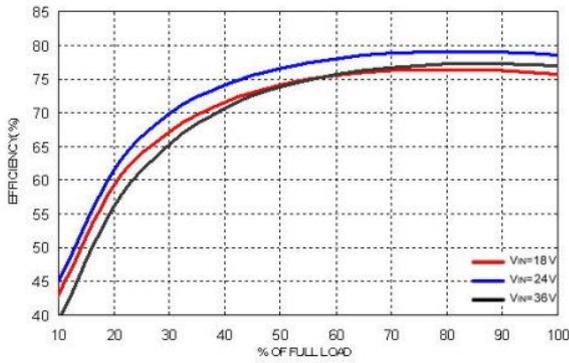100% to 75% to 100% of Full Load , Vin=Vin(nom)

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

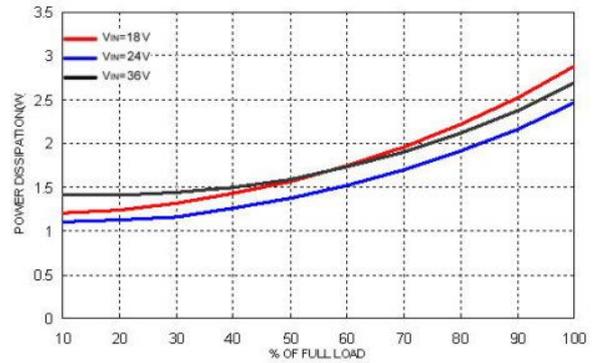Using ON/OFF Voltage Start-Up and Vo Rise Characteristic
Vin=Vin(nom), Full Load

P-DUKE TECHNOLOGY CO., LTD.
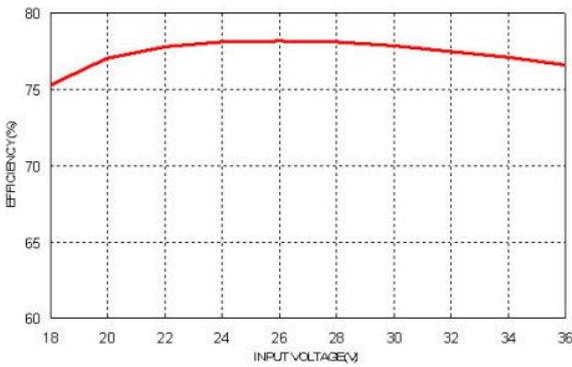
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S1P5
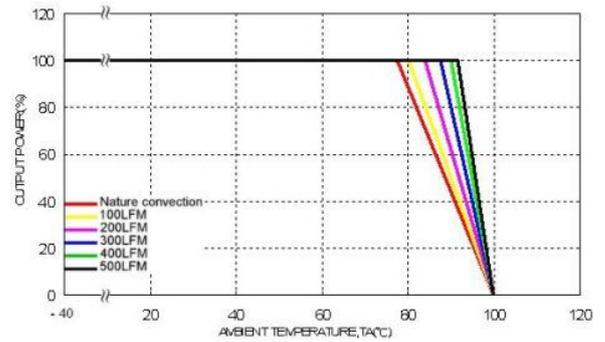

Efficiency Versus Output Load
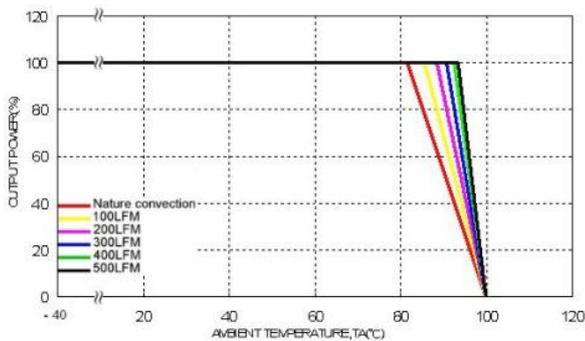

Power Dissipation Versus Output Load
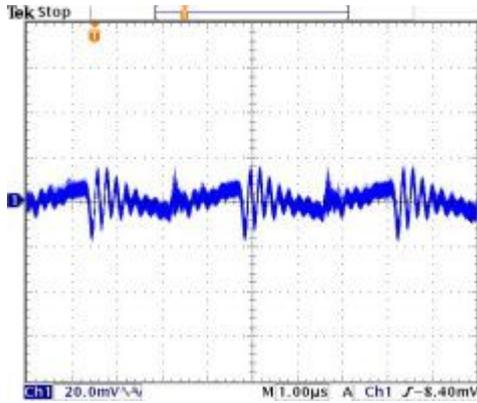

Efficiency Versus Input Voltage. Full Load

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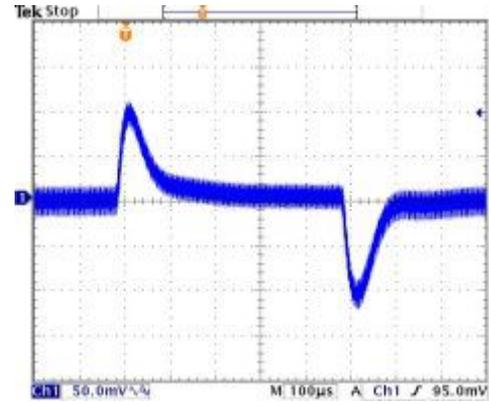

Derating Output Load Versus Ambient Temperature with Heat-sink
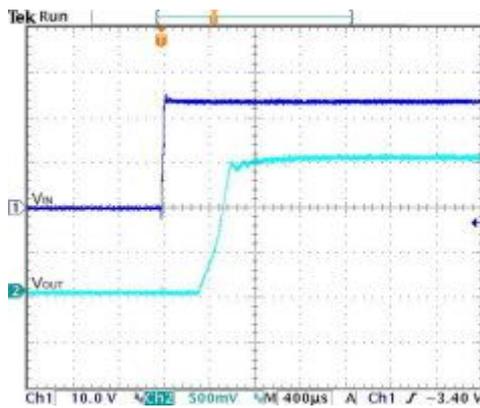and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S1P5
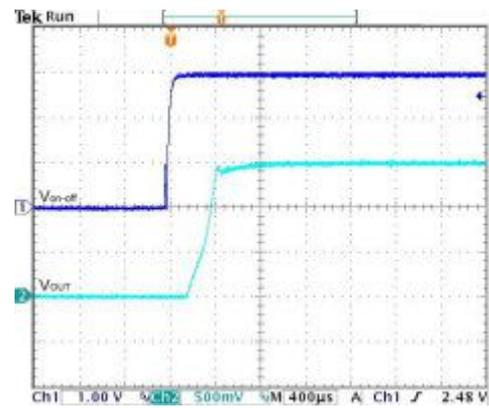

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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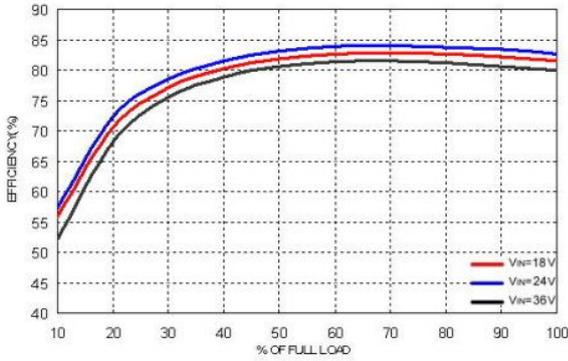100% to 75% to 100% of Full Load , Vin=Vin(nom)

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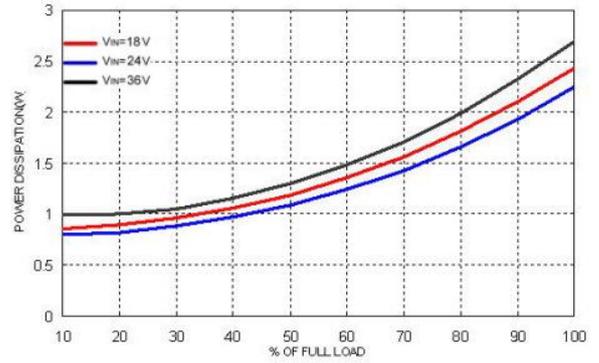Vin=Vin(nom), Full Load

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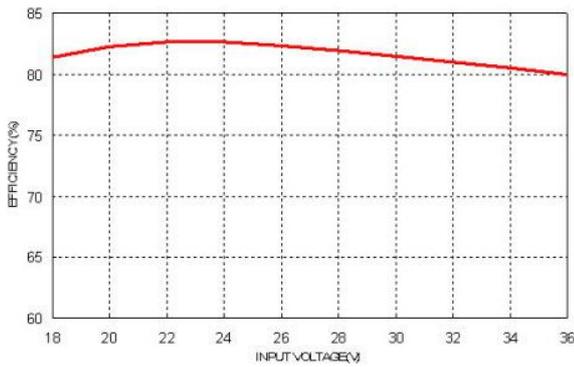Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S1P8
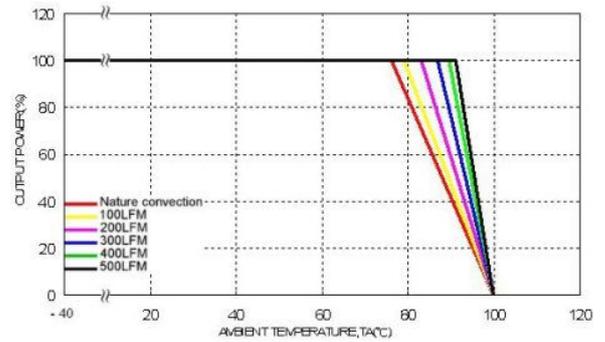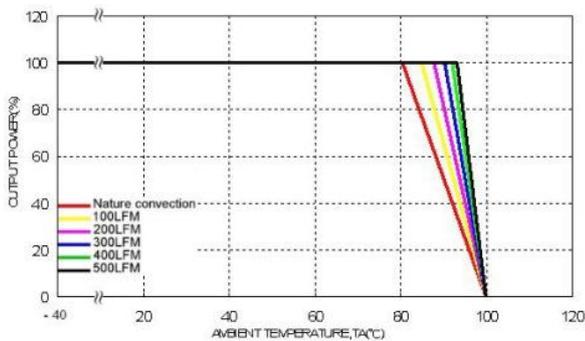

Efficiency Versus Output Load

Power Dissipation Versus Output Load
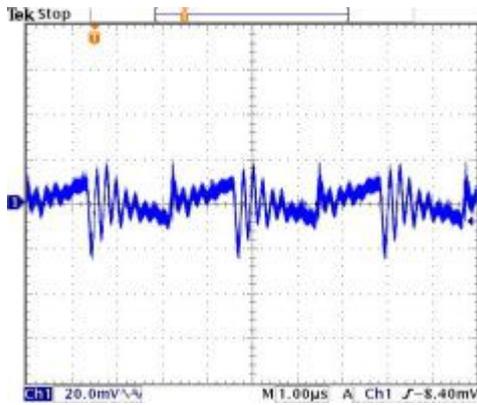

Efficiency Versus Input Voltage. Full Load

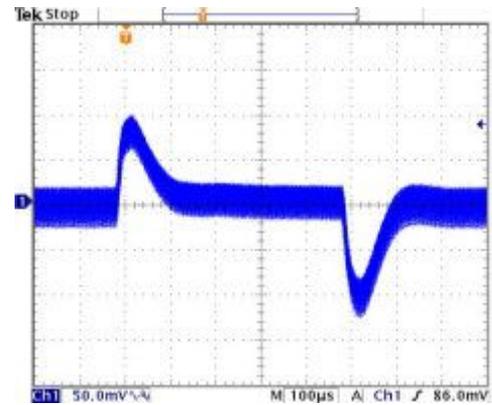Derating Output Load Versus Ambient Temperature and
Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
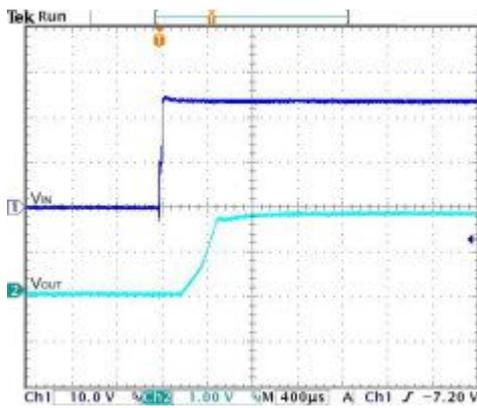and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S1P8
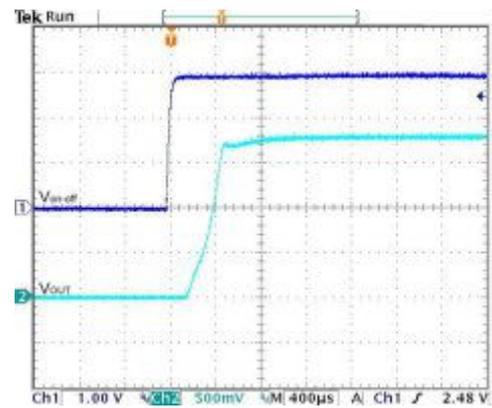

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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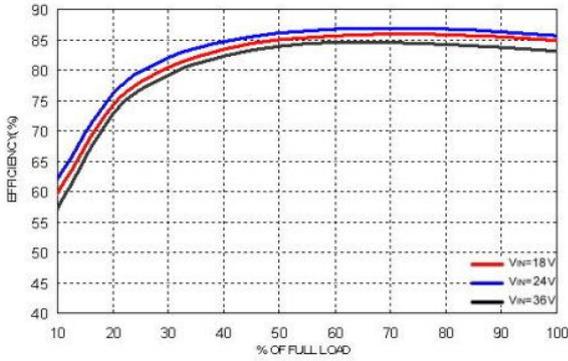100% to 75% to 100% of Full Load , Vin=Vin(nom)

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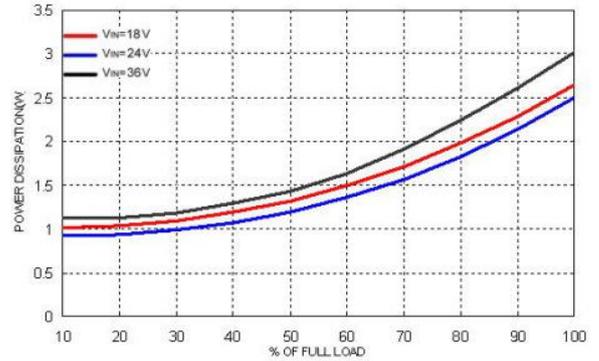Vin=Vin(nom), Full Load

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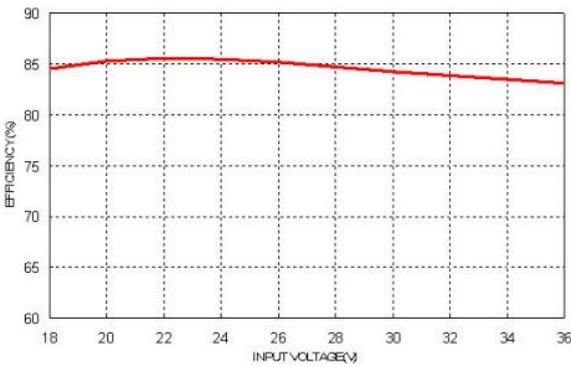Vin=Vin(nom), Full Load

All test conditions are at 25℃.The figures are identical for FEC30-24S2P5
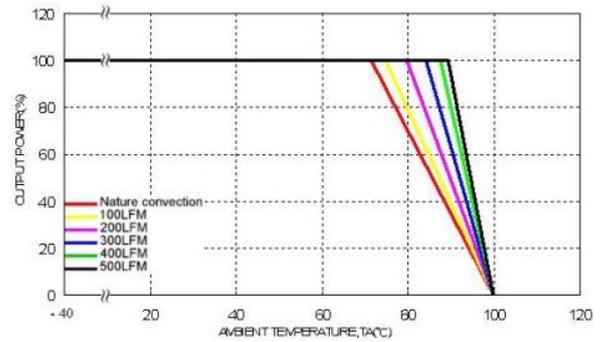

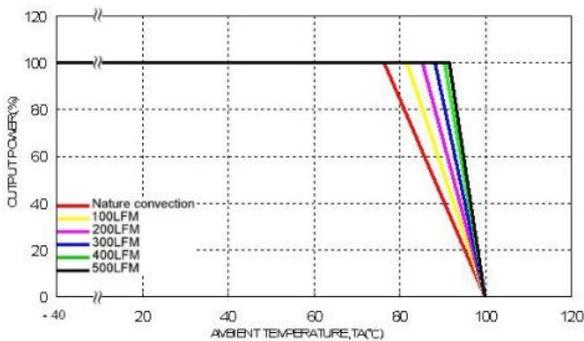Efficiency Versus Output Load

Power Dissipation Versus Output Load
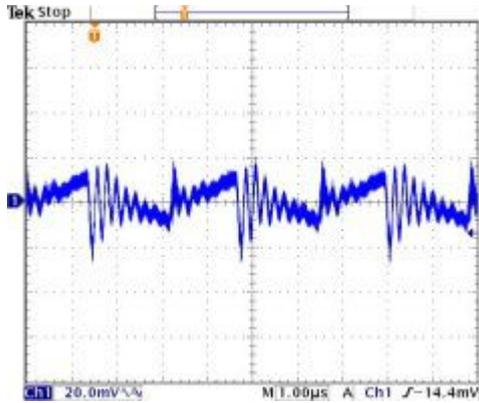

Efficiency Versus Input Voltage. Full Load

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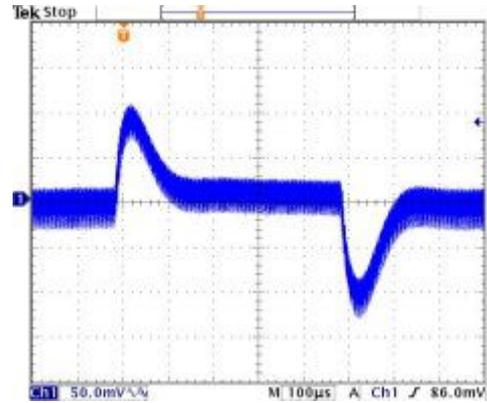Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
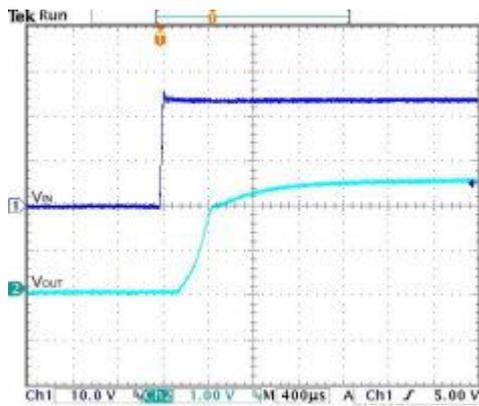and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S2P5
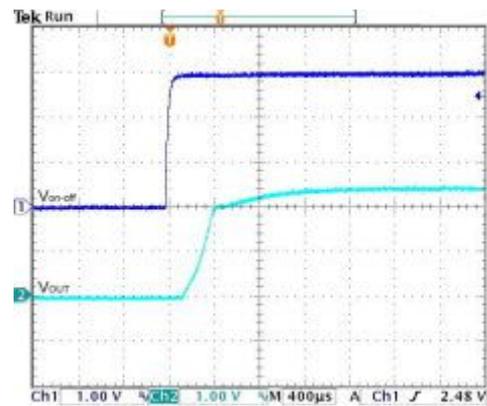

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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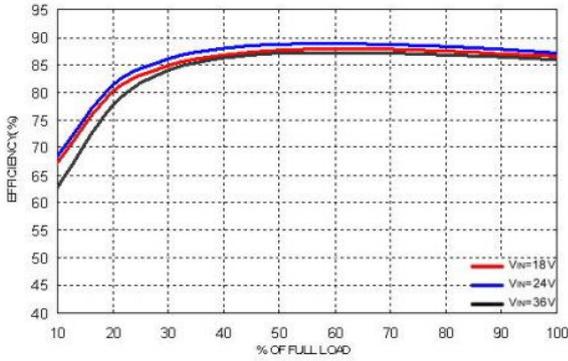100% to 75% to 100% of Full Load , Vin=Vin(nom)

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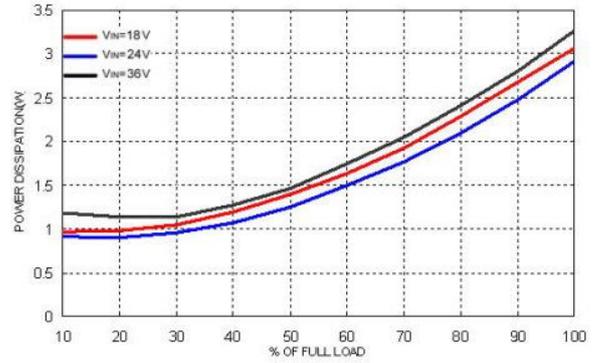Vin=Vin(nom), Full Load

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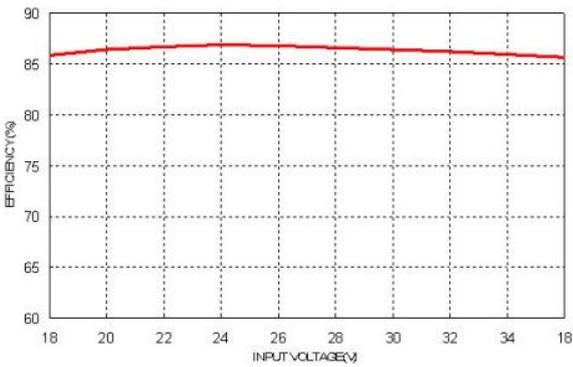
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S3P3
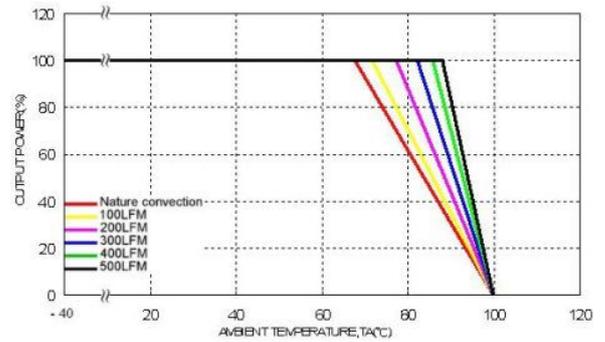
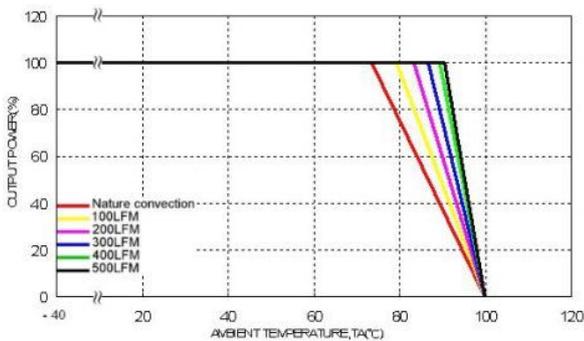Efficiency Versus Output Load

Power Dissipation Versus Output Load
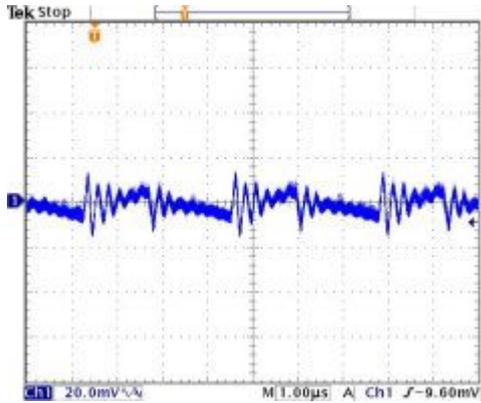
Efficiency Versus Input Voltage. Full Load

Derating Output Load Versus Ambient Temperature and Airflow Vin=Vin(nom)
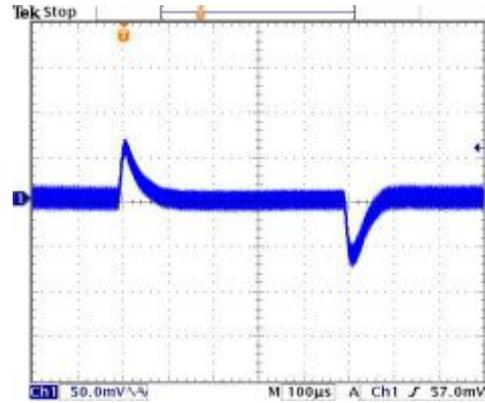
Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)
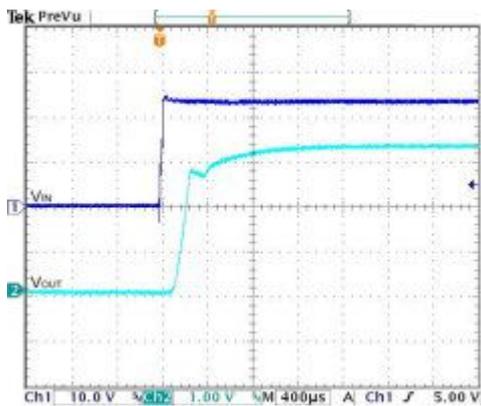
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S3P3
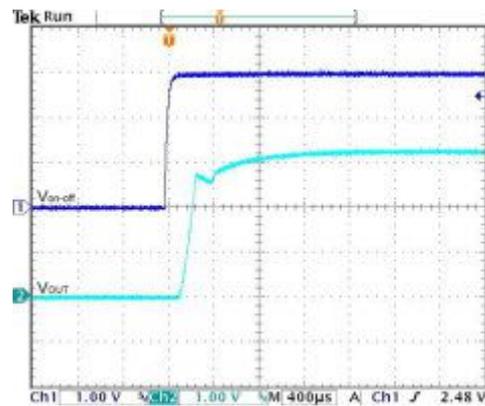

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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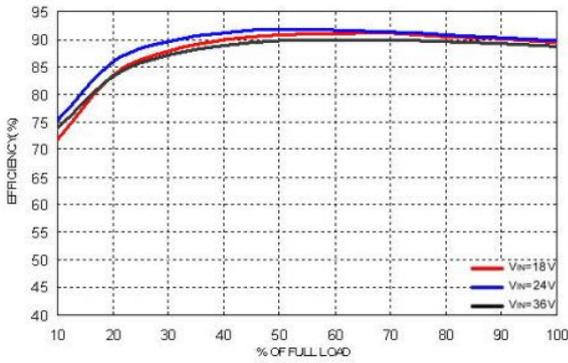100% to 75% to 100% of Full Load , Vin=Vin(nom)

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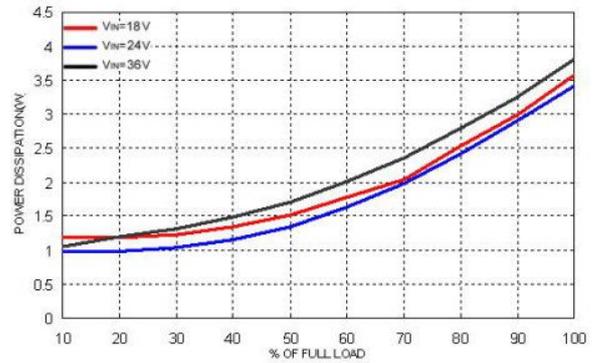Vin=Vin(nom), Full Load

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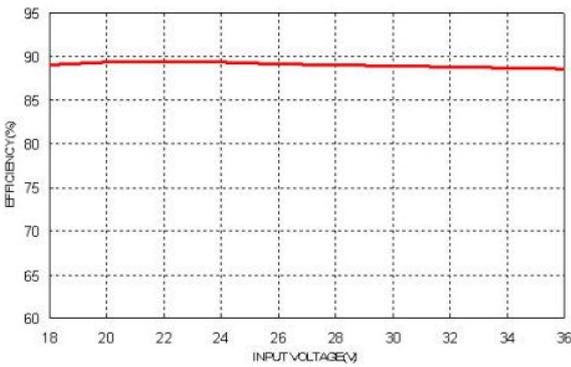Vin=Vin(nom), Full Load

All test conditions are at 25℃.The figures are identical for FEC30-24S05
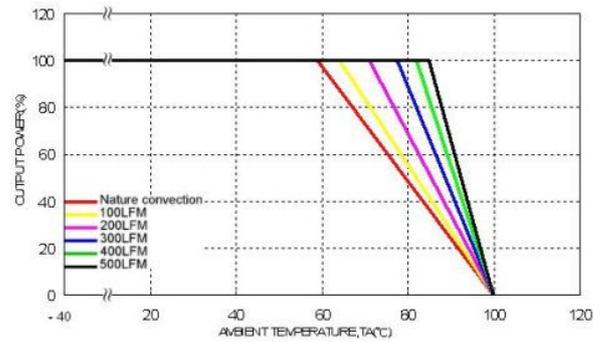

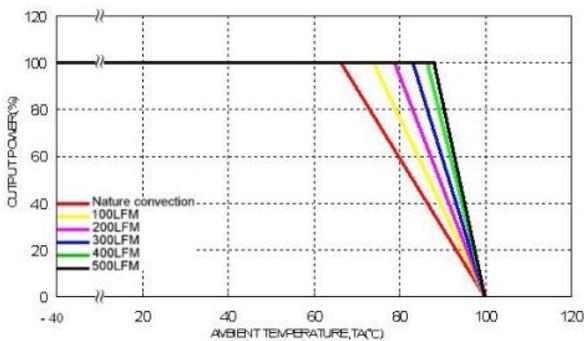Efficiency Versus Output Load

Power Dissipation Versus Output Load
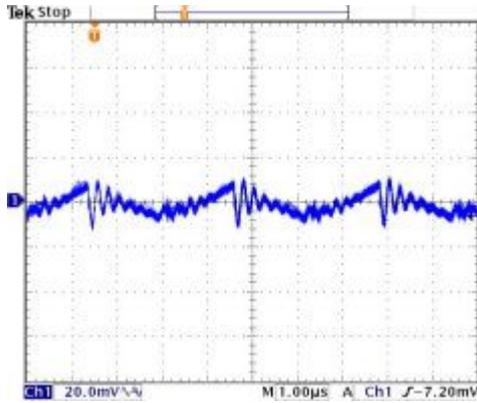

Efficiency Versus Input Voltage. Full Load

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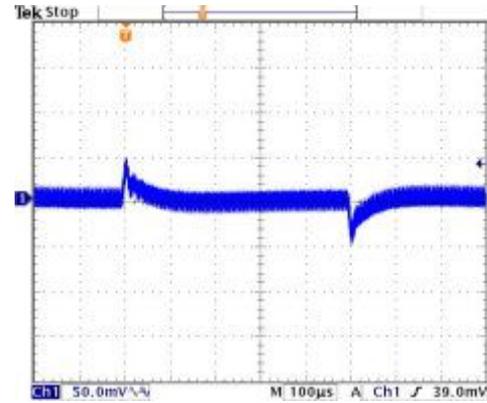Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)
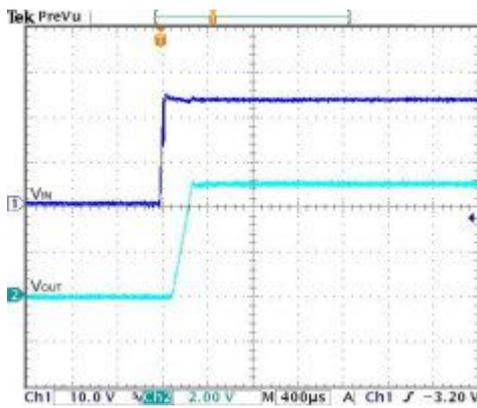
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S05
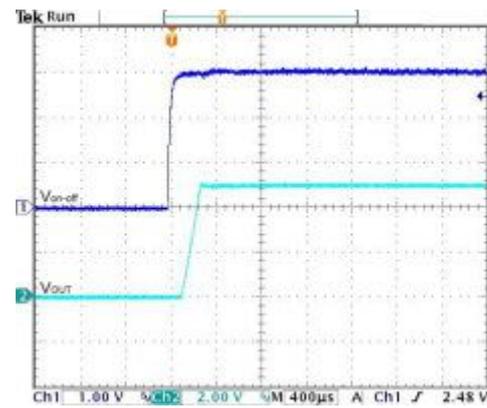

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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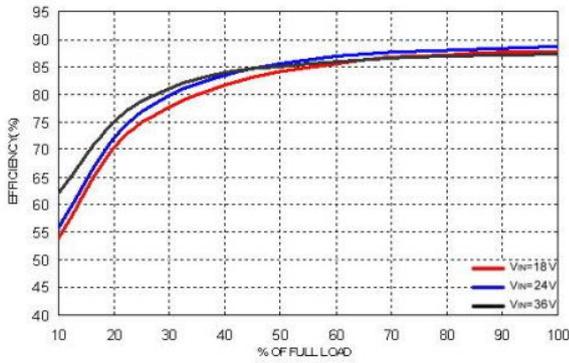100% to 75% to 100% of Full Load , Vin=Vin(nom)

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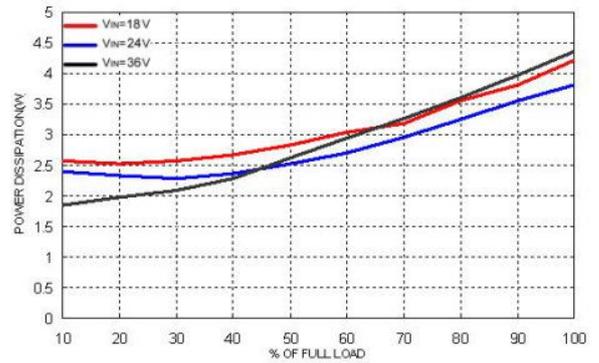Vin=Vin(nom), Full Load

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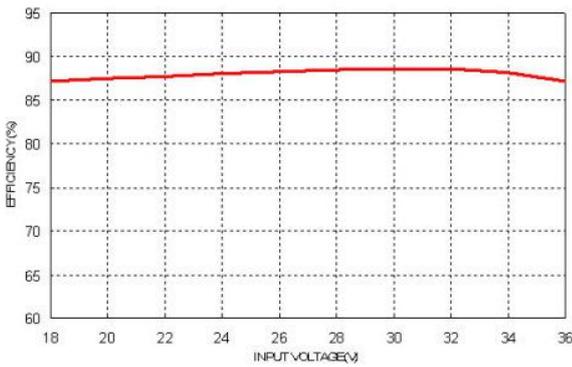Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S12
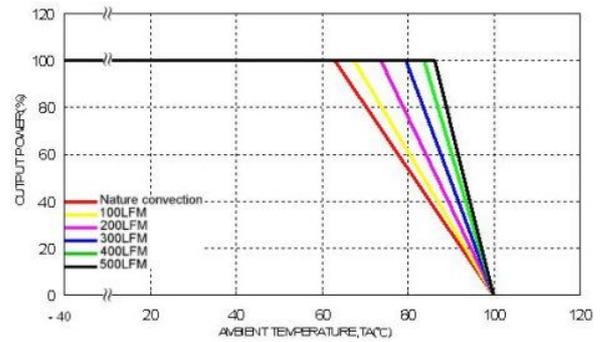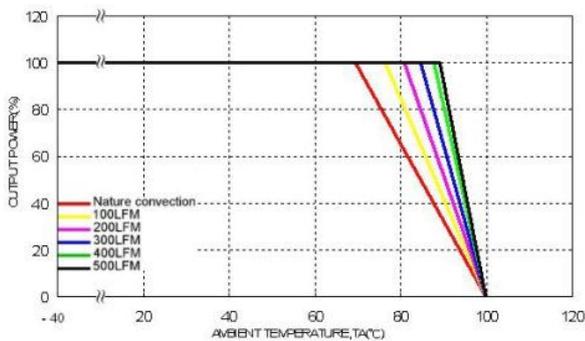

Efficiency Versus Output Load

Power Dissipation Versus Output Load
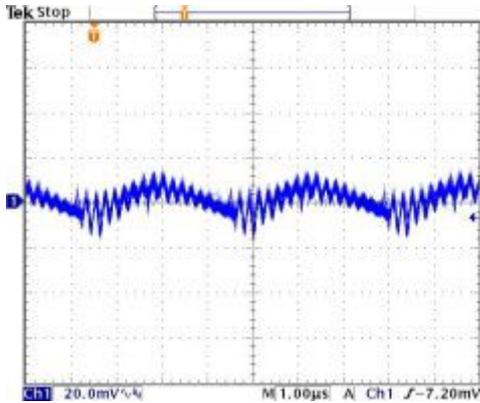

Efficiency Versus Input Voltage. Full Load

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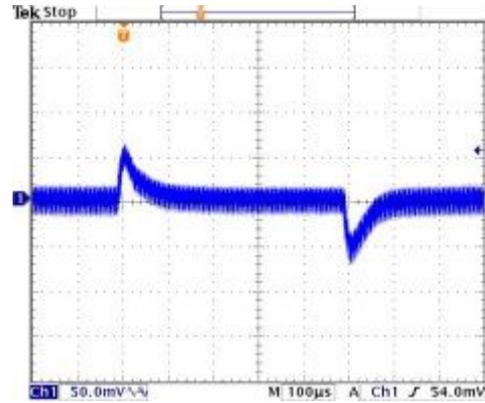

Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)
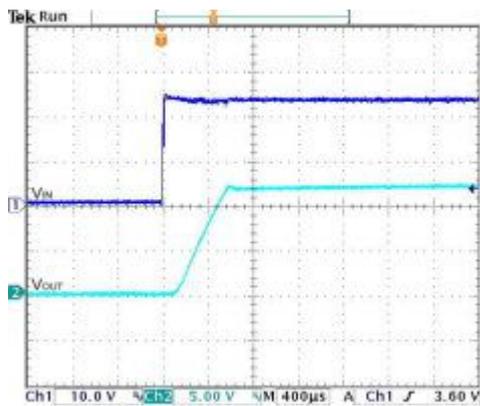
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S12
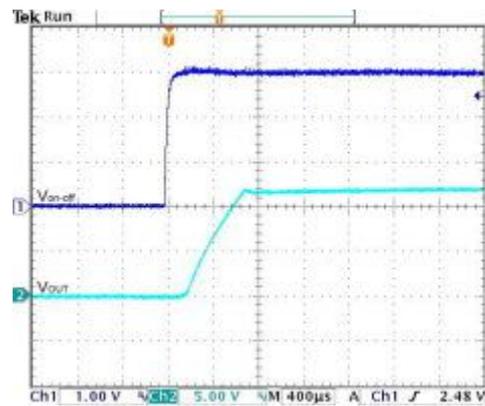
Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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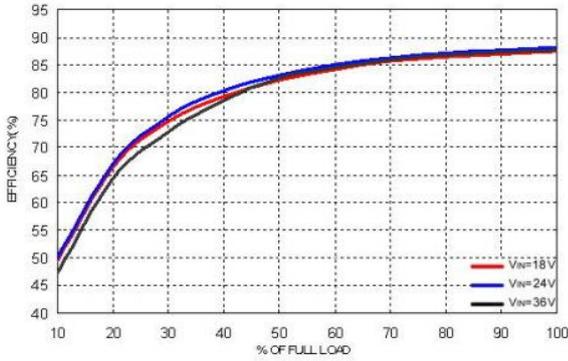100% to 75% to 100% of Full Load , Vin=Vin(nom)

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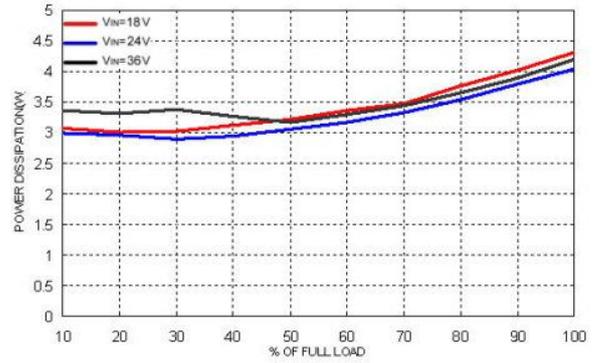Vin=Vin(nom), Full Load

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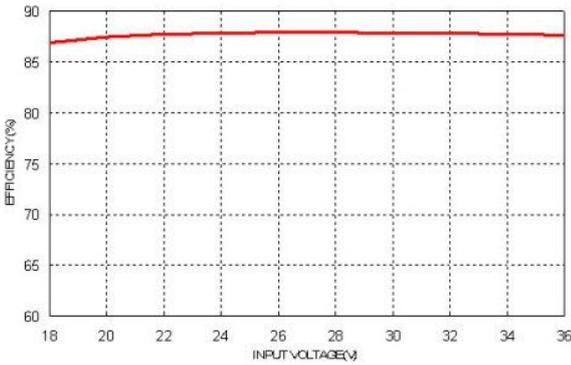Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-24S15
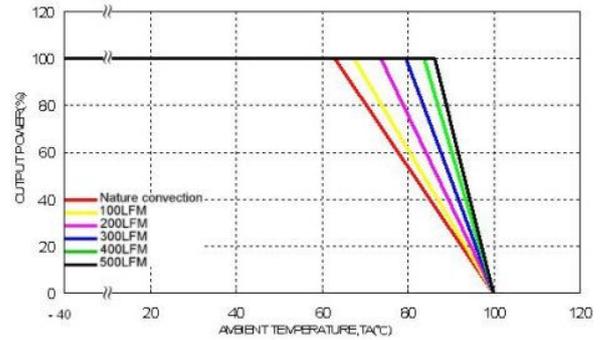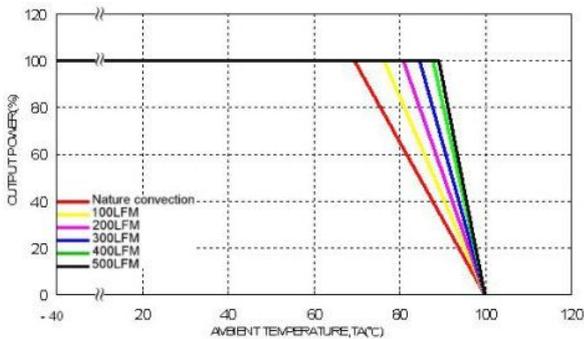

Efficiency Versus Output Load

Power Dissipation Versus Output Load
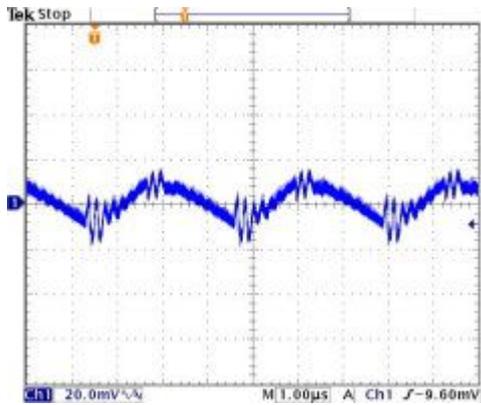

Efficiency Versus Input Voltage. Full Load

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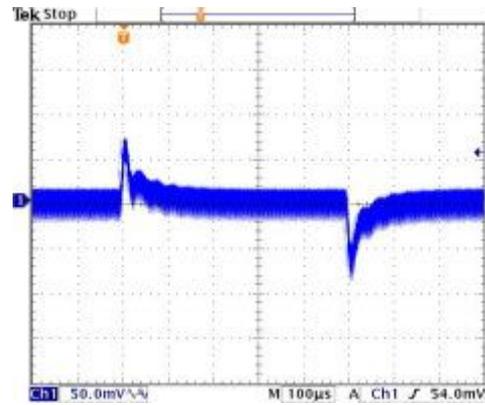Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)
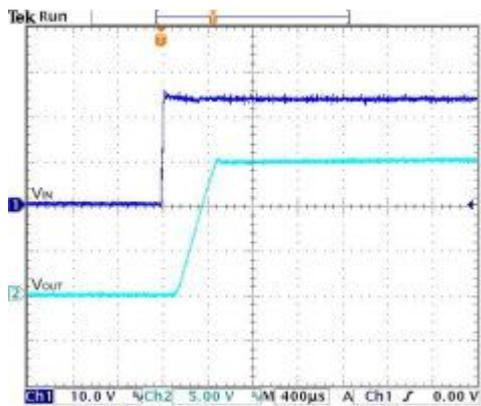
Characteristic Curves (Continued)

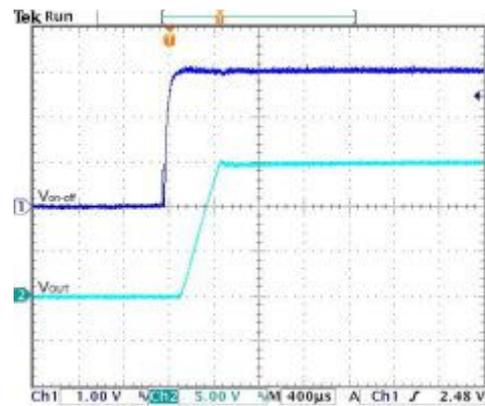All test conditions are at 25℃.The figures are identical for FEC30-24S15

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

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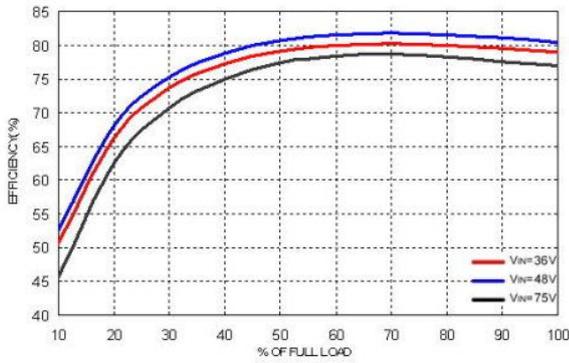100% to 75% to 100% of Full Load , Vin=Vin(nom)

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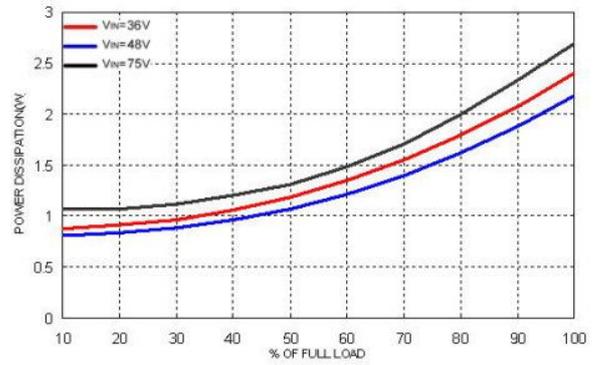Vin=Vin(nom), Full Load

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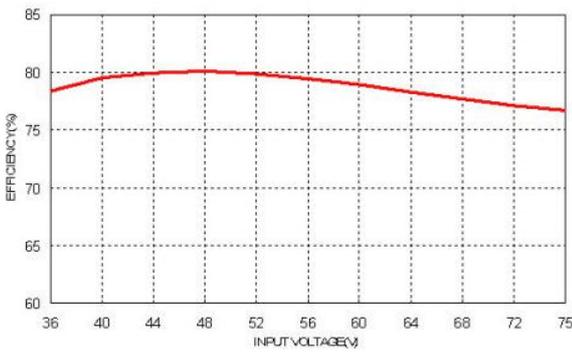Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S1P5
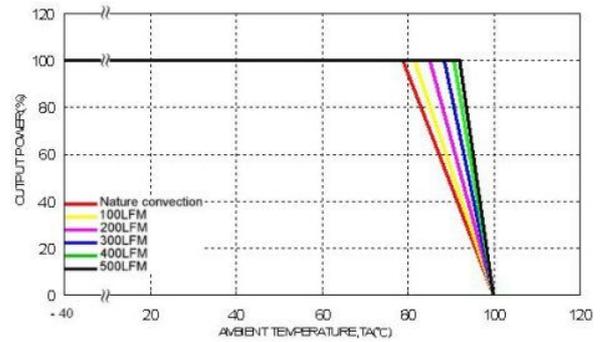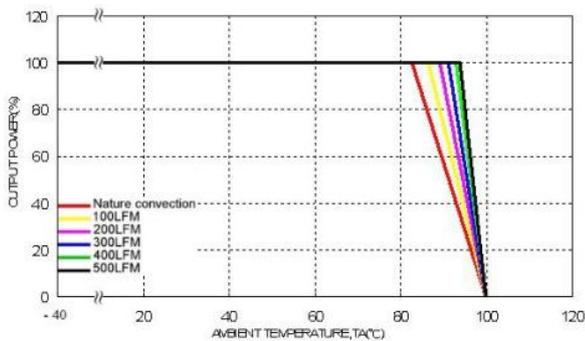

Efficiency Versus Output Load

Power Dissipation Versus Output Load
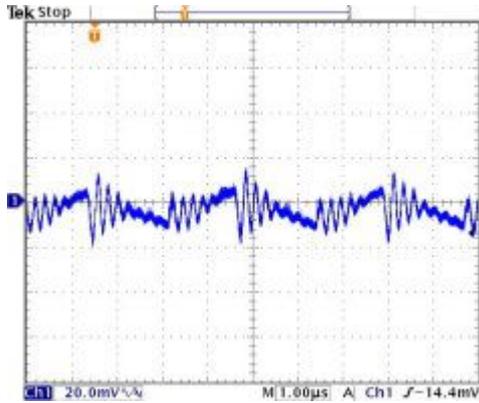

Efficiency Versus Input Voltage. Full Load

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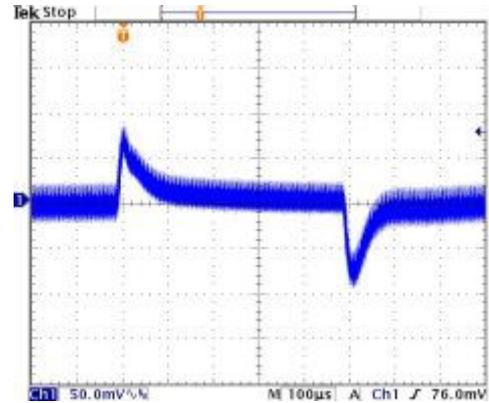Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)
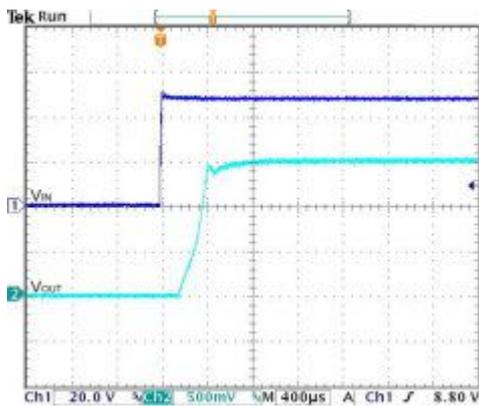
Characteristic Curves (Continued)

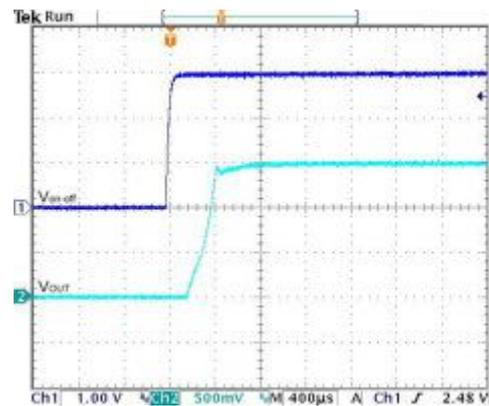All test conditions are at 25℃.The figures are identical for FEC30-48S1P5

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

Transient Response to Dynamic Load Change from
100% to 75% to 100% of Full Load , Vin=Vin(nom)
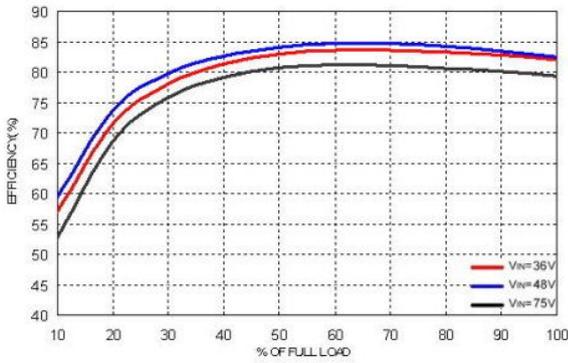
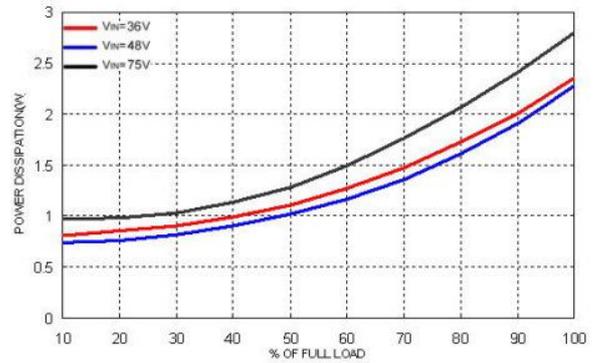Typical Input Start-Up and Output Rise Characteristic
Vin=Vin(nom), Full Load

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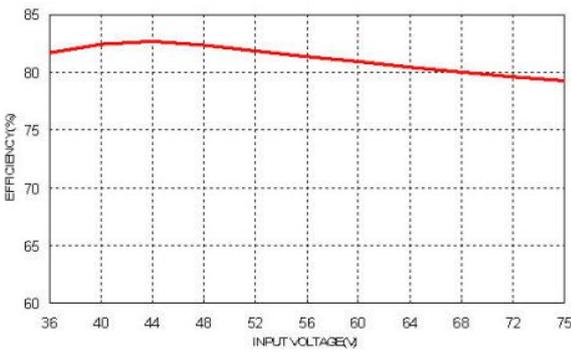Vin=Vin(nom), Full Load

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S1P8
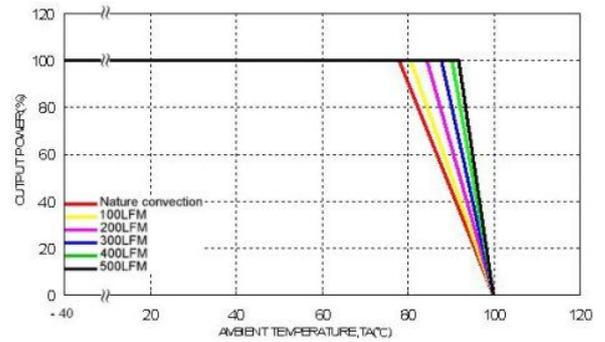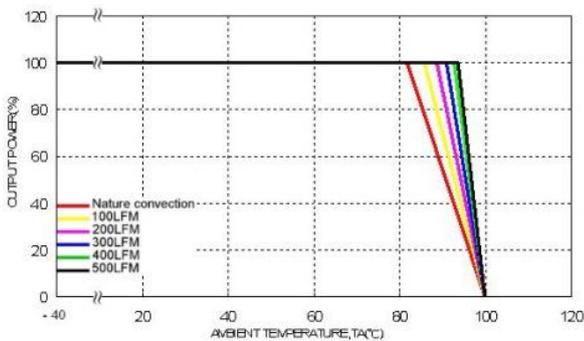

Efficiency Versus Output Load

Power Dissipation Versus Output Load
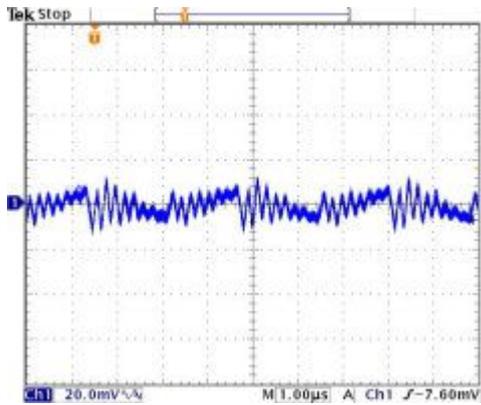

Efficiency Versus Input Voltage. Full Load

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

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S1P8

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

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

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

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

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S2P5

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage. Full Load

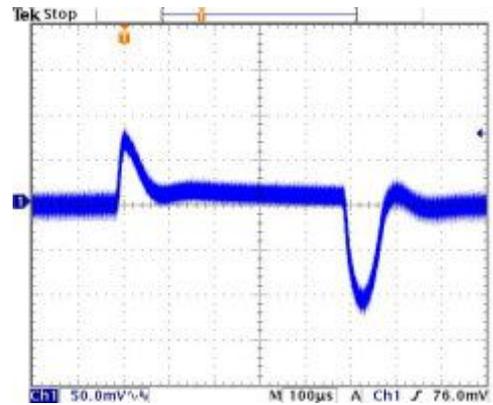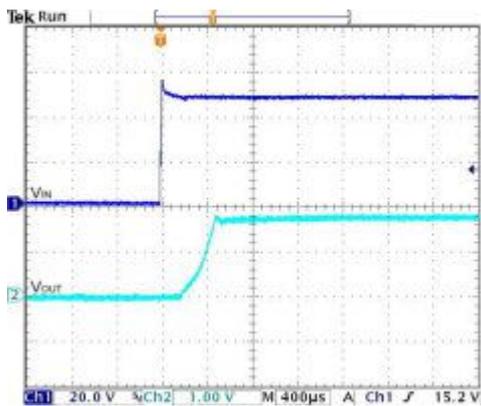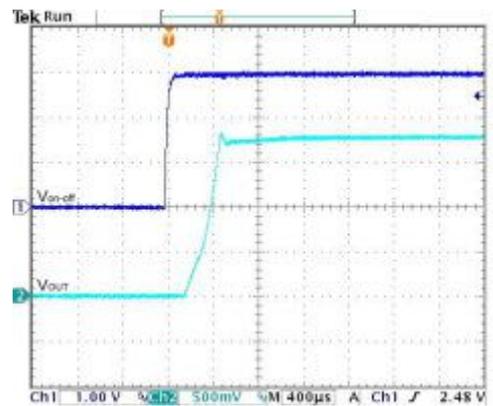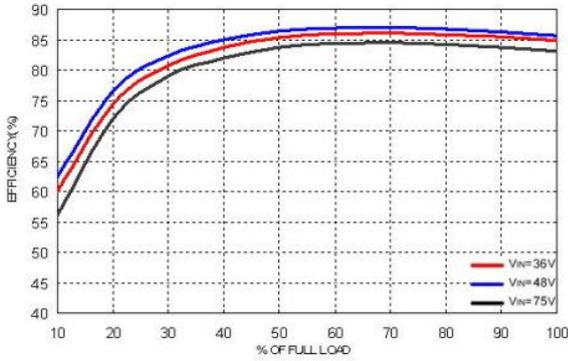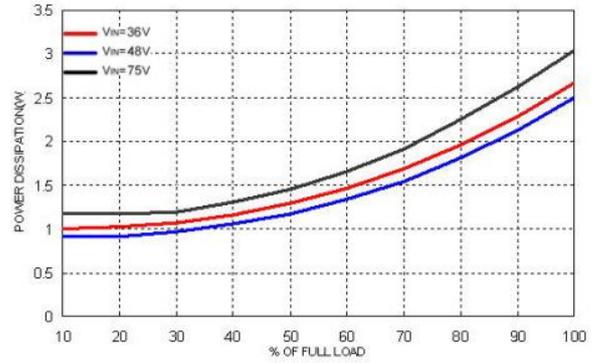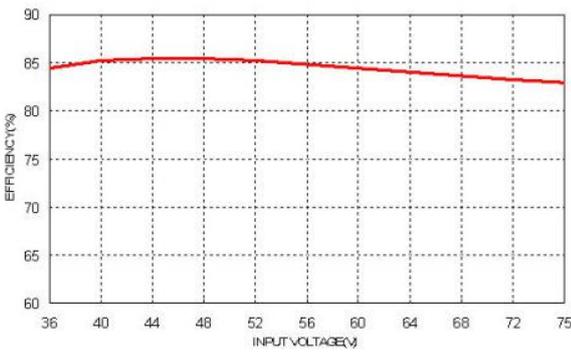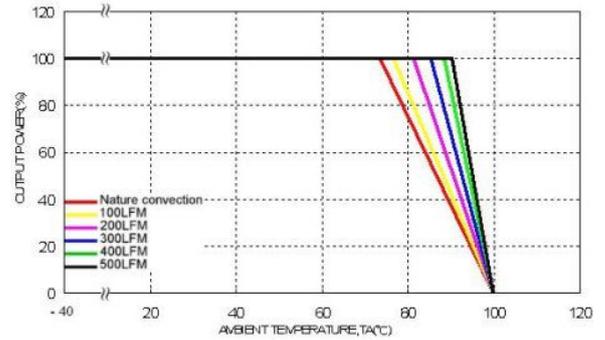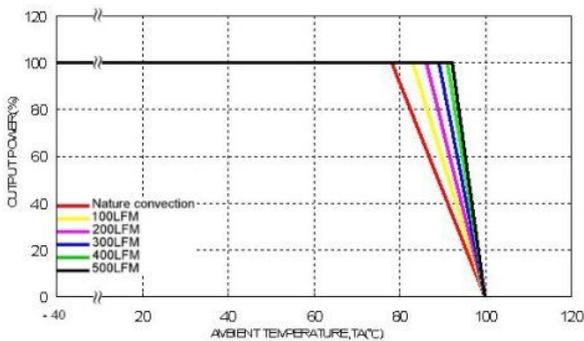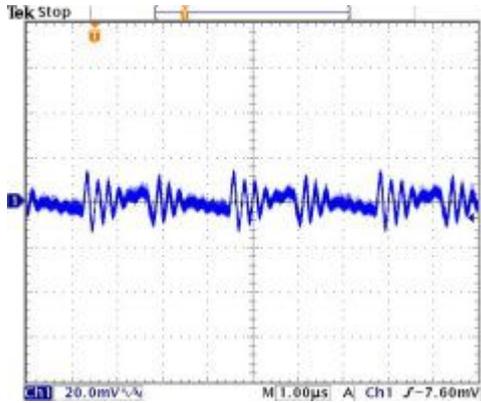Derating Output Load Versus Ambient Temperature and Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S2P5

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

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

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

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

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S3P3

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage. Full Load

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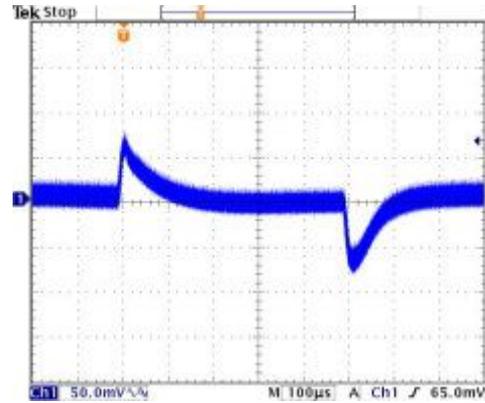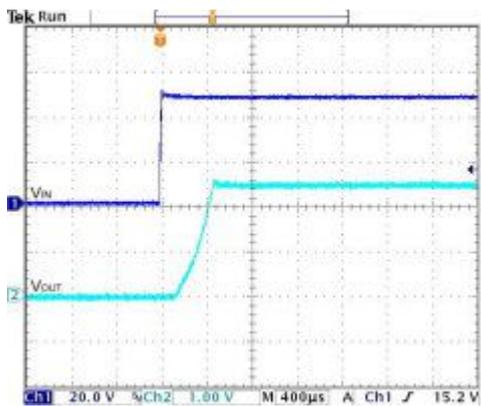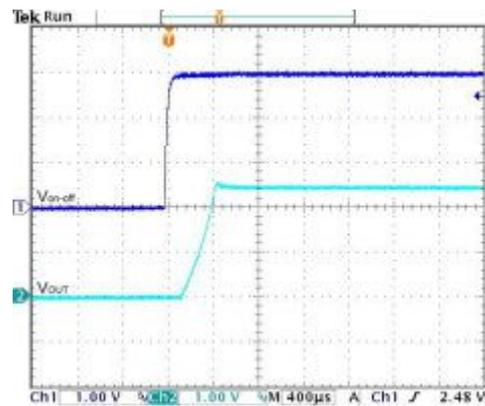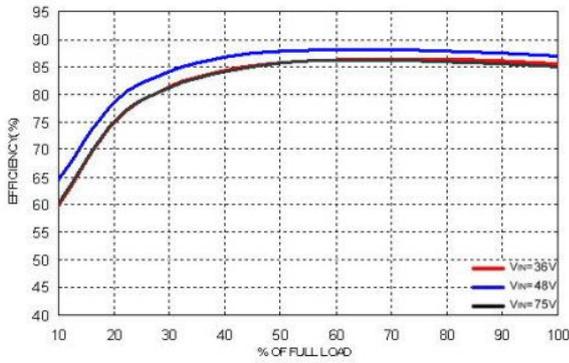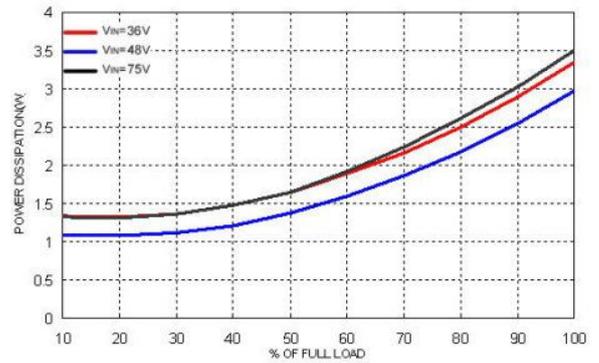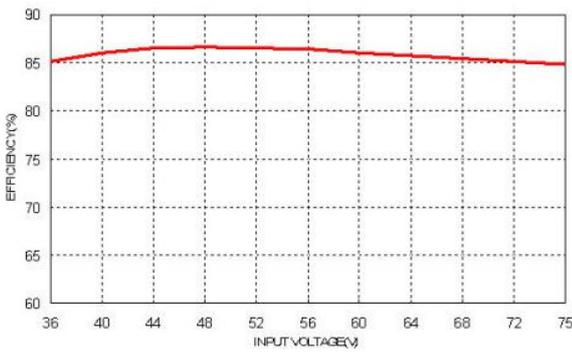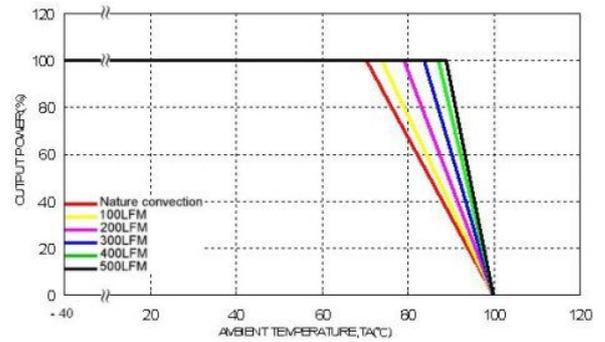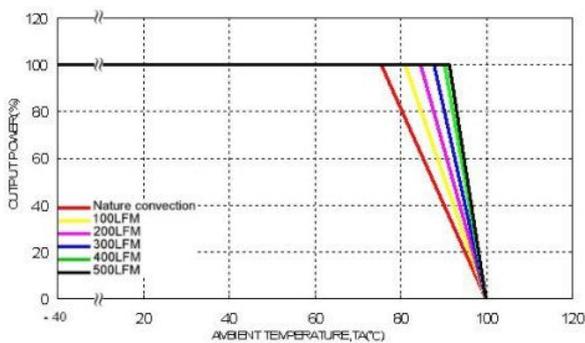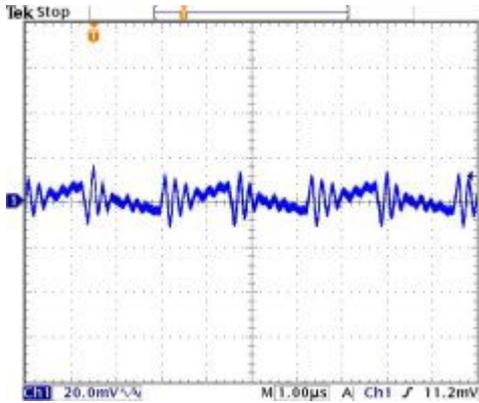Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S3P3

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

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

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

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

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S05

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage. Full Load

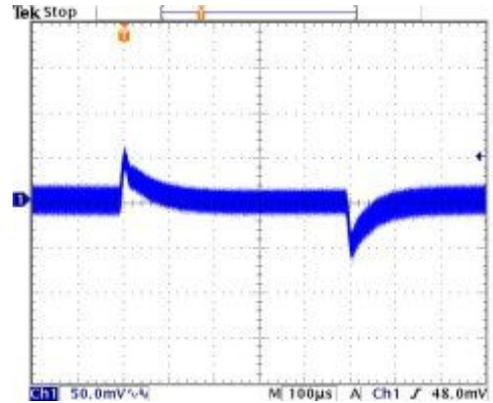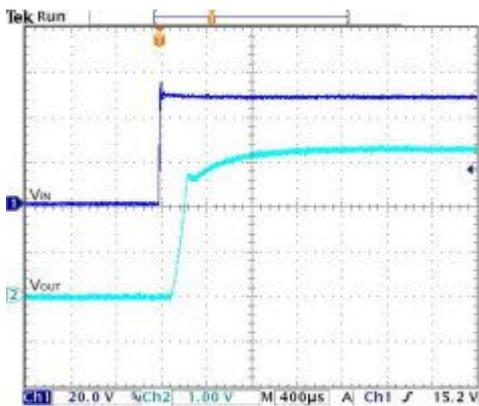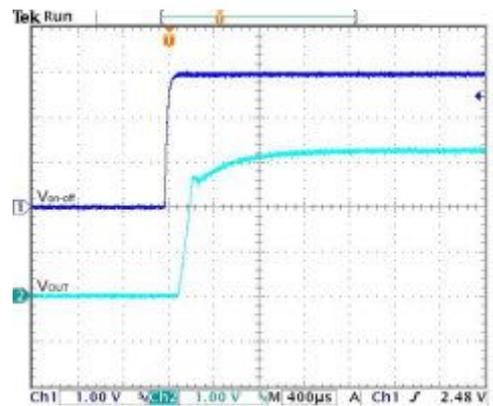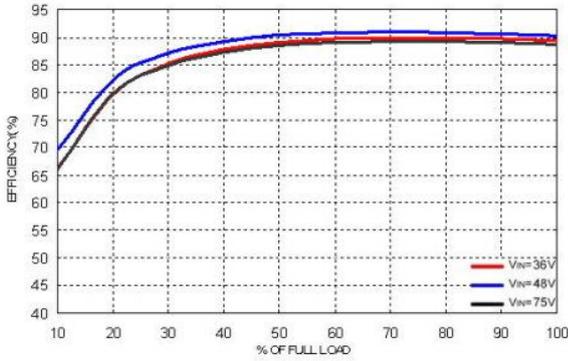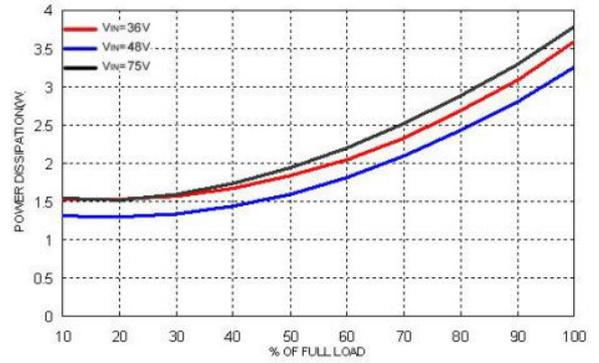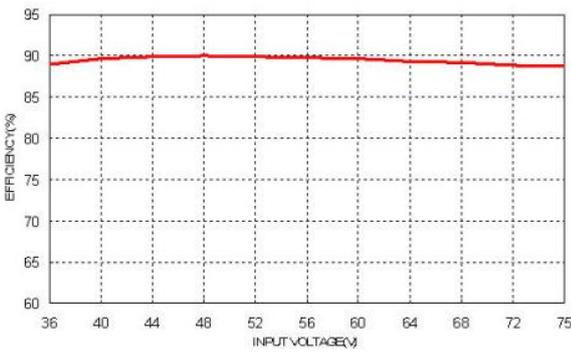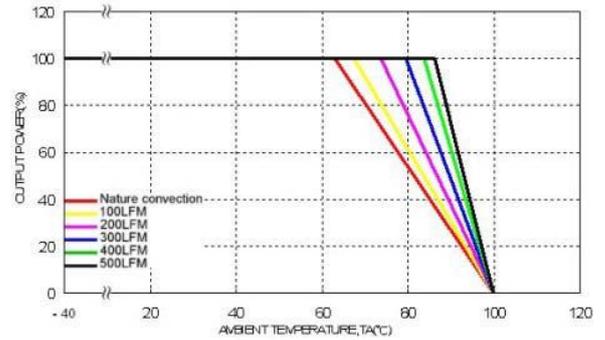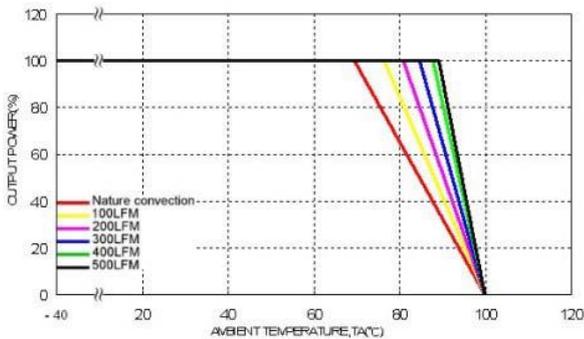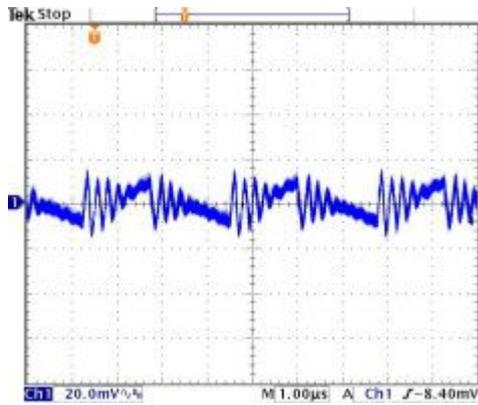Derating Output Load Versus Ambient Temperature and
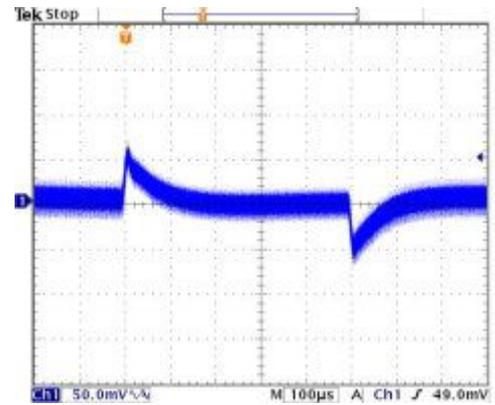Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
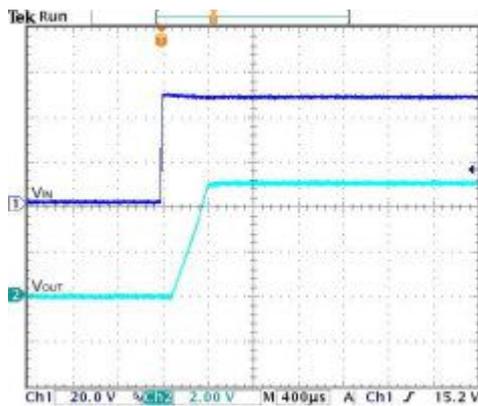and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S05
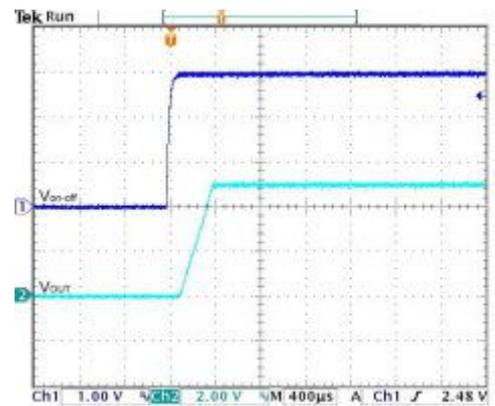

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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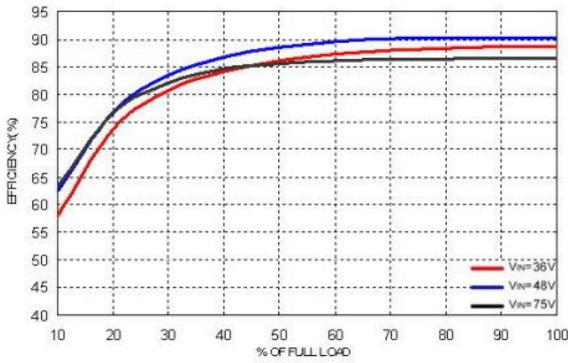100% to 75% to 100% of Full Load , Vin=Vin(nom)

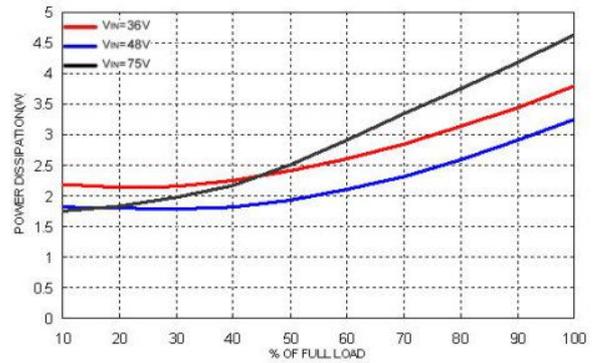Typical Input Start-Up and Output Rise Characteristic
Vin=Vin(nom), Full Load

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

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Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S12

Efficiency Versus Output Load

Power Dissipation Versus Output Load

Efficiency Versus Input Voltage. Full Load

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

Derating Output Load Versus Ambient Temperature with Heat-sink and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S12

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

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

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

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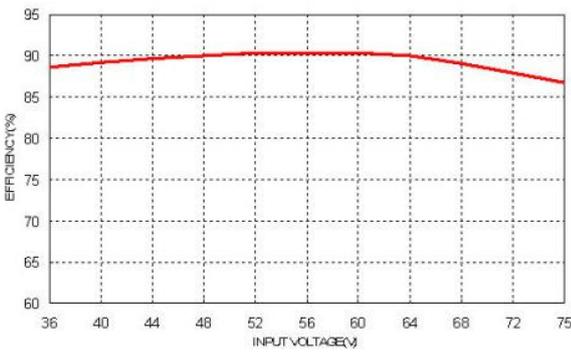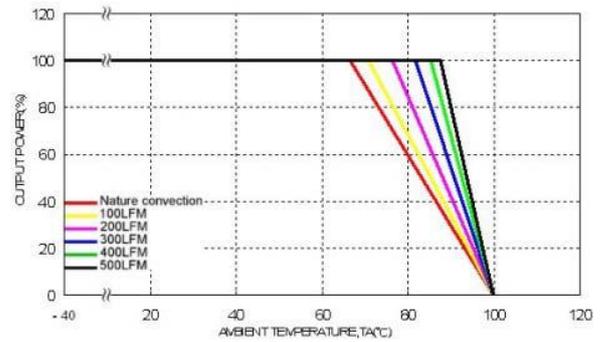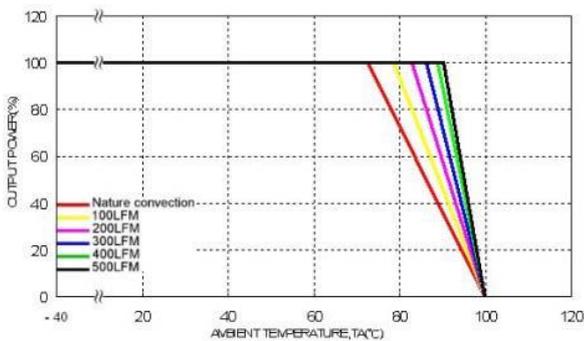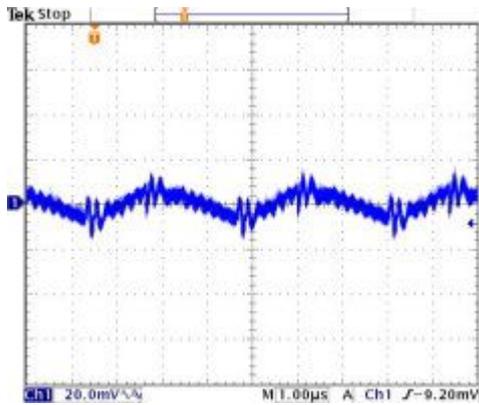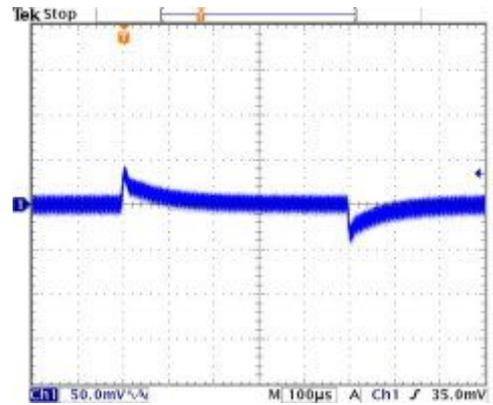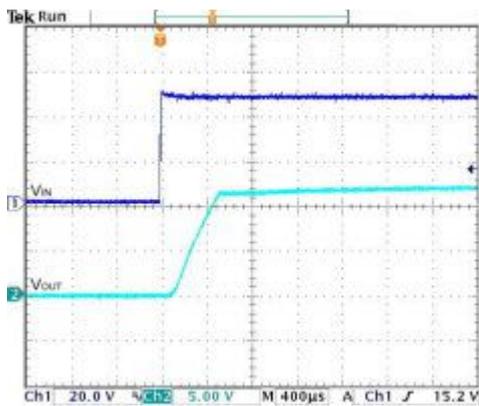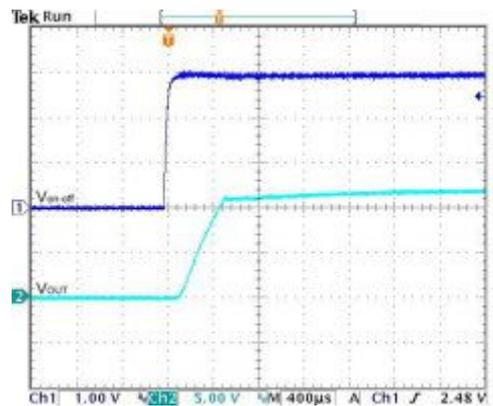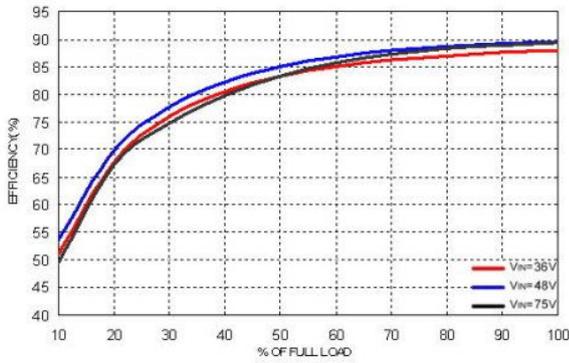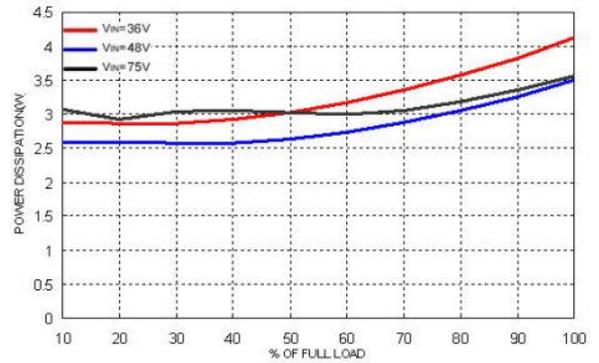Vin=Vin(nom), Full Load
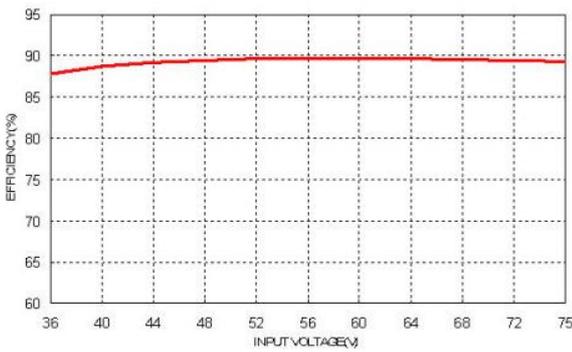
Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S15
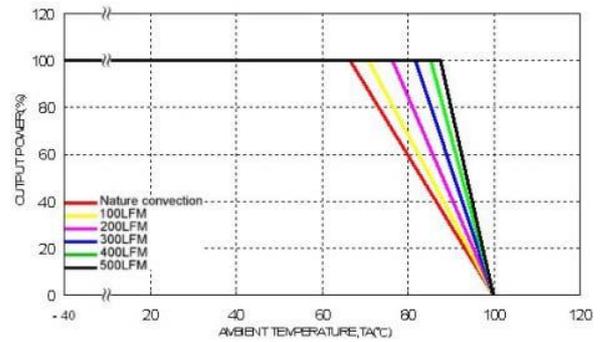

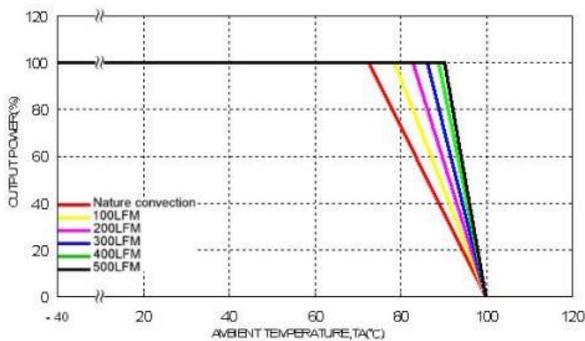Efficiency Versus Output Load

Power Dissipation Versus Output Load

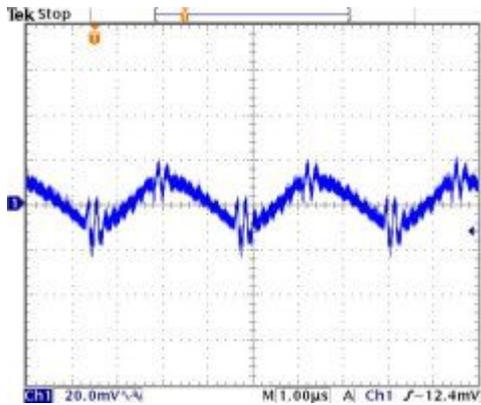Efficiency Versus Input Voltage. Full Load

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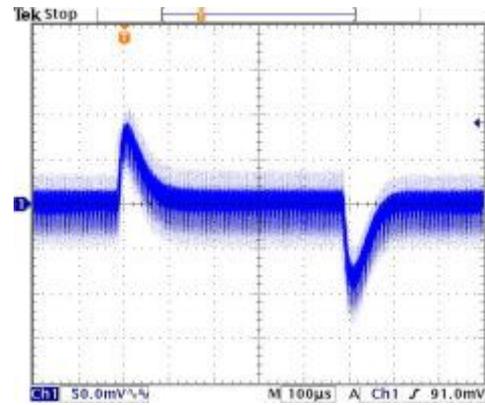Airflow Vin=Vin(nom)

Derating Output Load Versus Ambient Temperature with Heat-sink
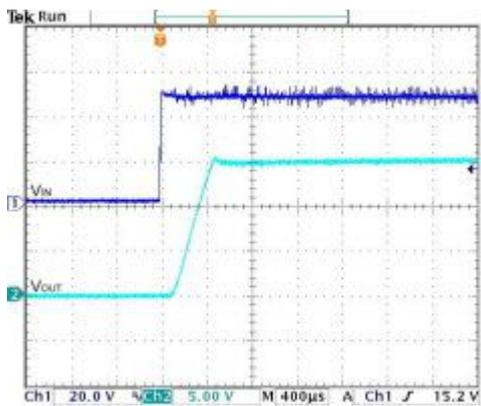and Airflow, Vin = Vin(nom)

Characteristic Curves (Continued)

All test conditions are at 25℃.The figures are identical for FEC30-48S15
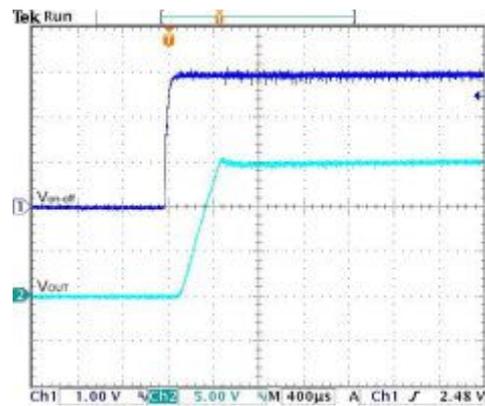

Typical Output Ripple and Noise.
Vin=Vin(nom), Full Load

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

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

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