TRACO POWER
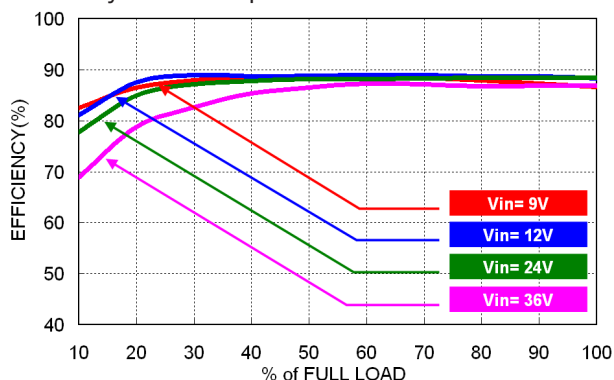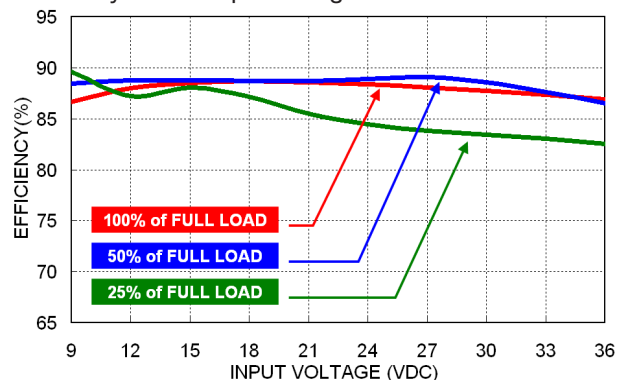
Characteristic Curves
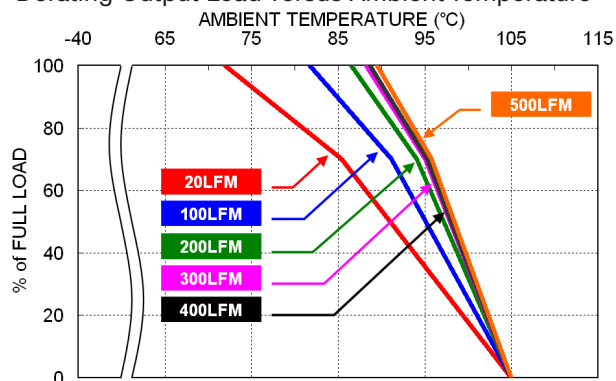
THN 15-2410WIR

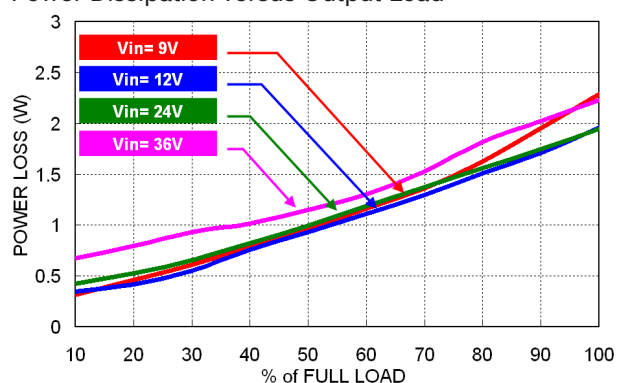Efficiency versus Output Load
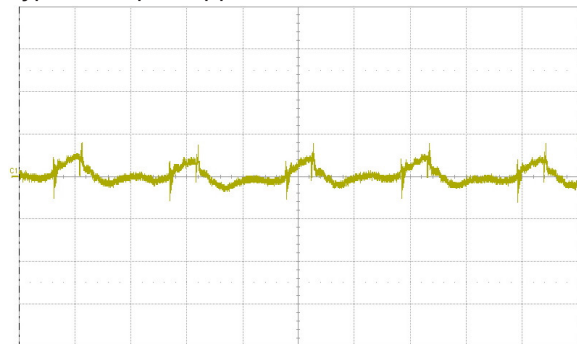
Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
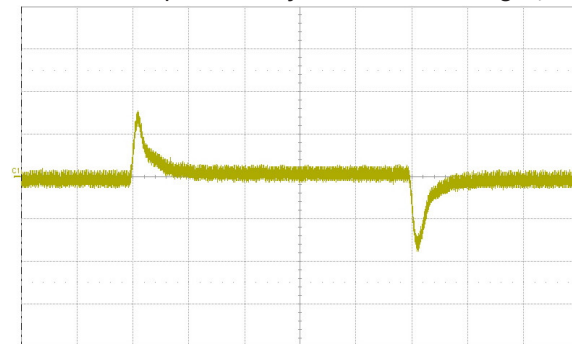
Power Dissipation versus Output Load

Typical Output Ripple and Noise
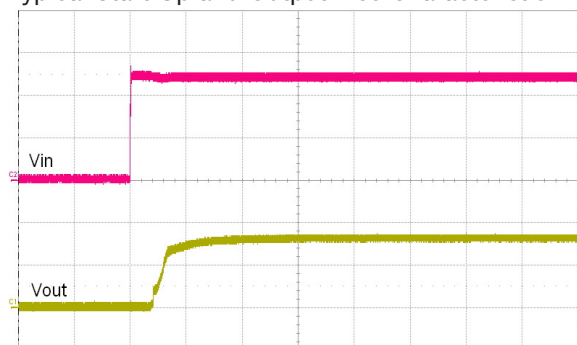
Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

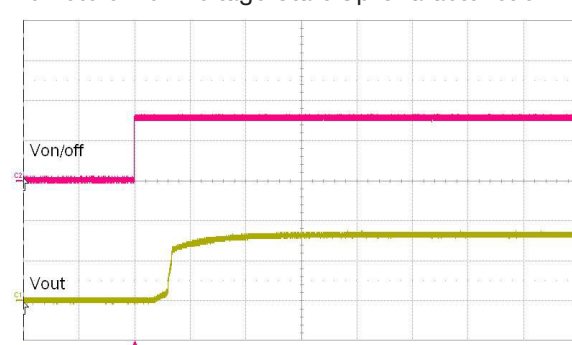Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 2 V/Div   Vin: 10 V/Div   X: 10 ms/Div

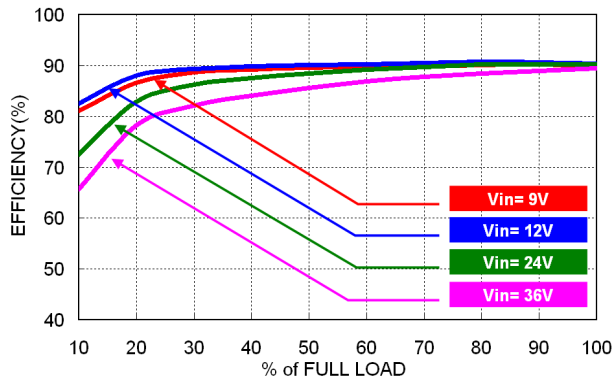Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 2 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

THN 15-2411WIR

Efficiency versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

AMBIENT TEMPERATURE (°C)

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 2 V/Div   Vin: 10 V/Div   X: 10 ms/Div

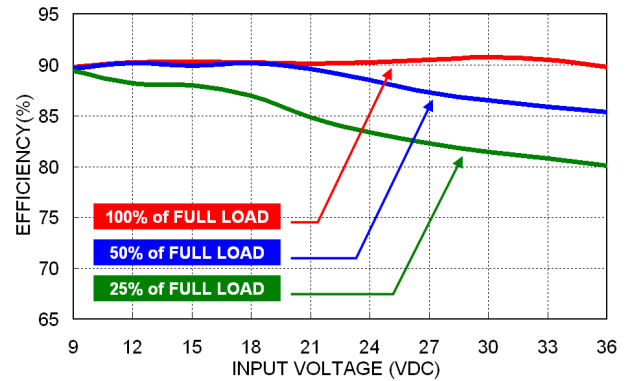### Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 2 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

TRACO POWER
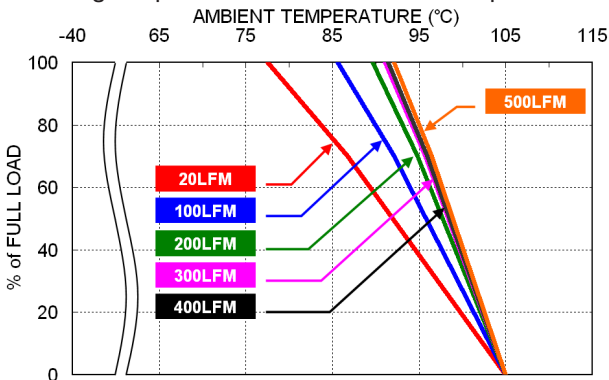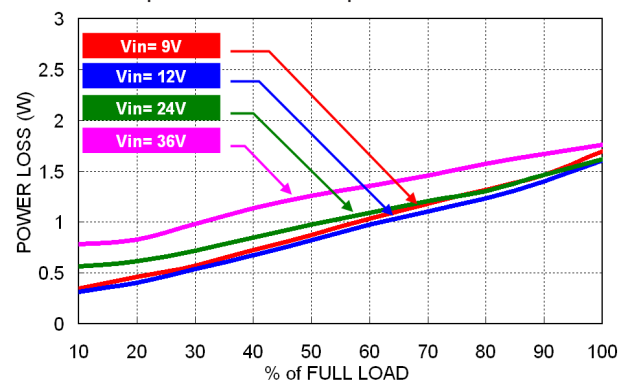
THN 15-2412WIR

Efficiency versus Output Load

Efficiency versus Input Voltage
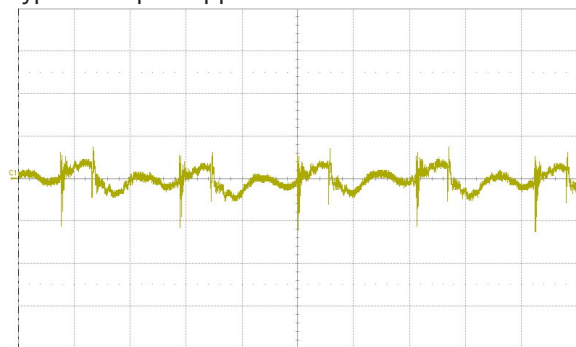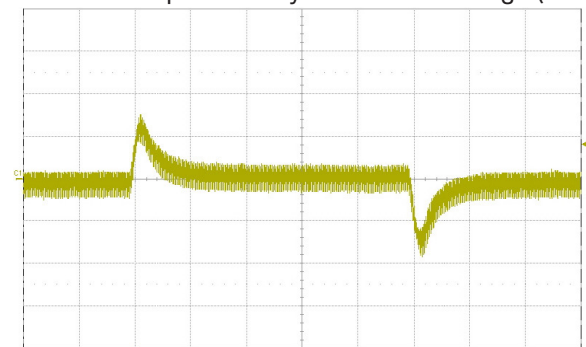

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

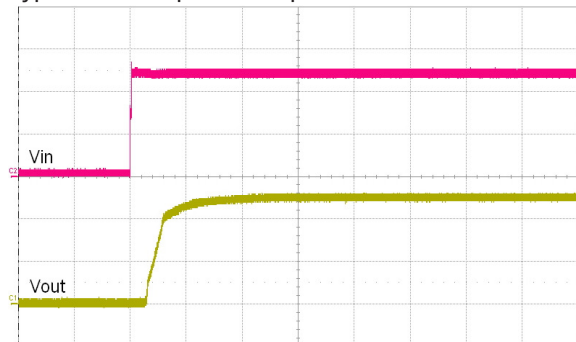### Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div
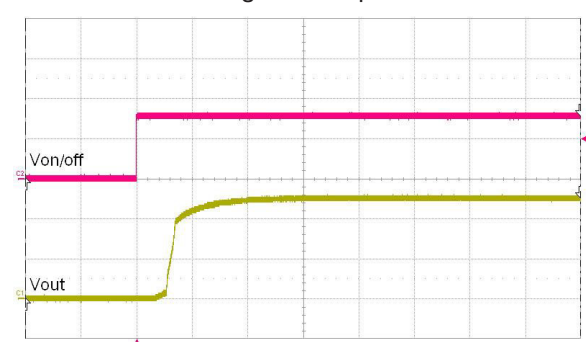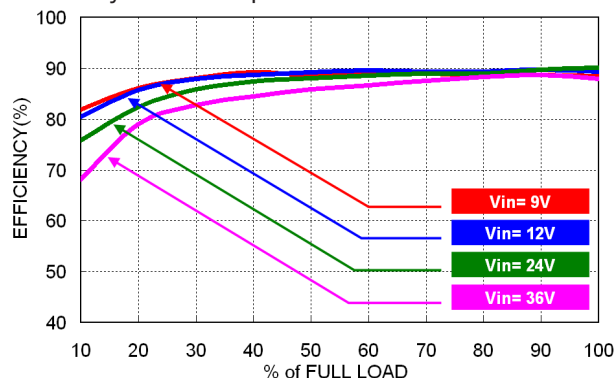
Typical Start-Up and Output Rise Characteristic

Vout: 5 V/Div   Vin: 10 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

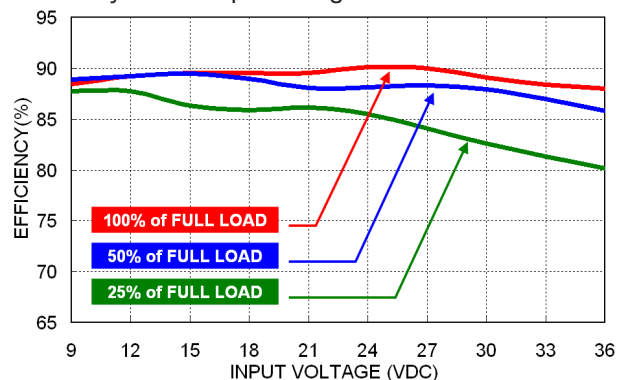Vout: 5 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
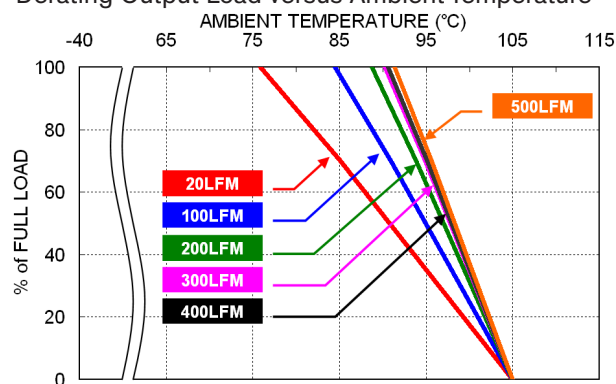
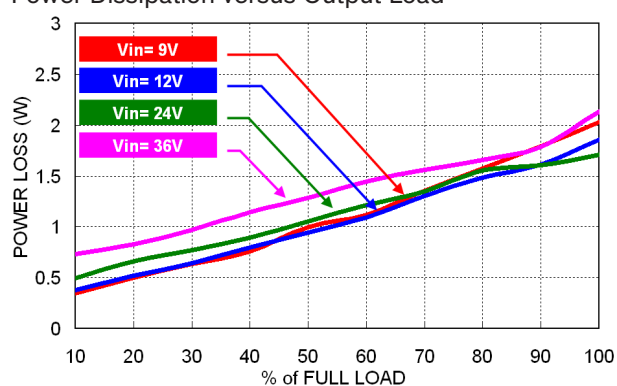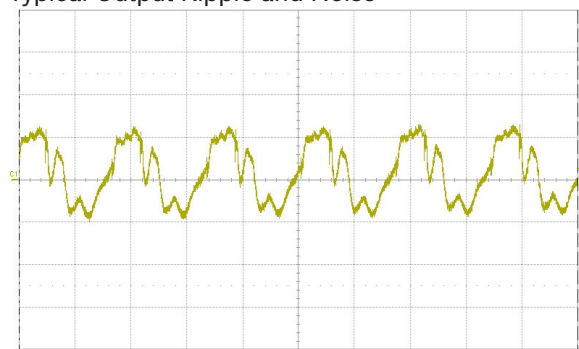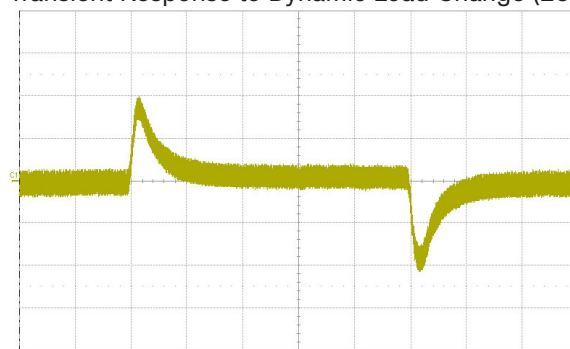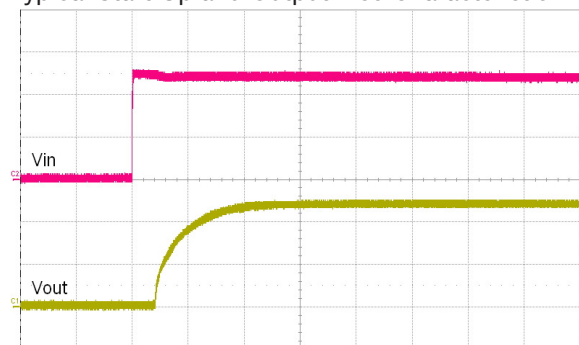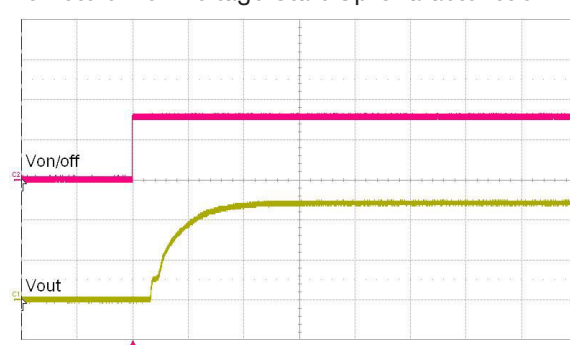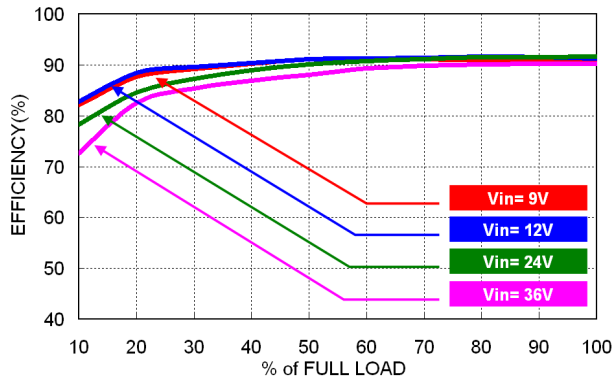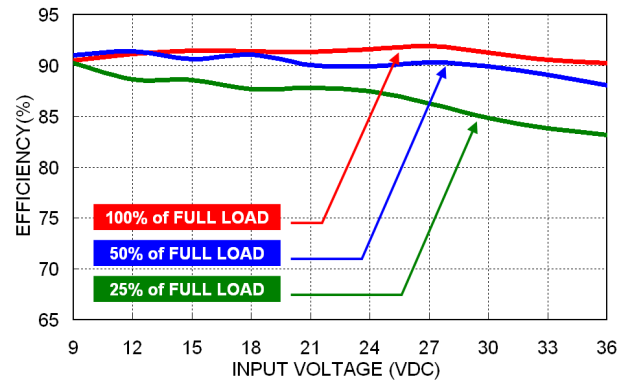## THN 15-2413WIR

Efficiency versus Output Load

- Vin= 9V
- Vin= 12V
- Vin= 24V
- Vin= 36V

Efficiency versus Input Voltage

- 100% of FULL LOAD
- 50% of FULL LOAD
- 25% of FULL LOAD

Derating Output Load versus Ambient Temperature

- 20LFM
- 100LFM
- 200LFM
- 300LFM
- 400LFM
- 500LFM

Power Dissipation versus Output Load

- Vin= 9V
- Vin= 12V
- Vin= 24V
- Vin= 36V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 10 V/Div   Vin: 10 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
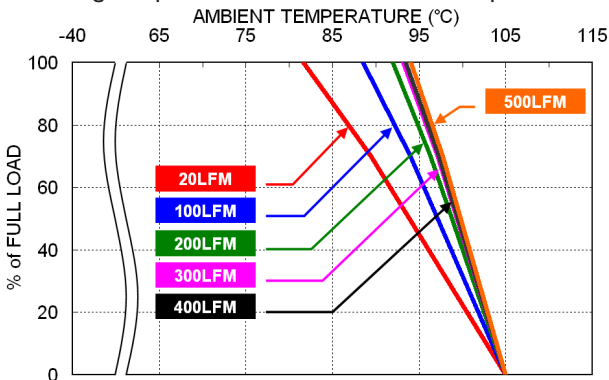
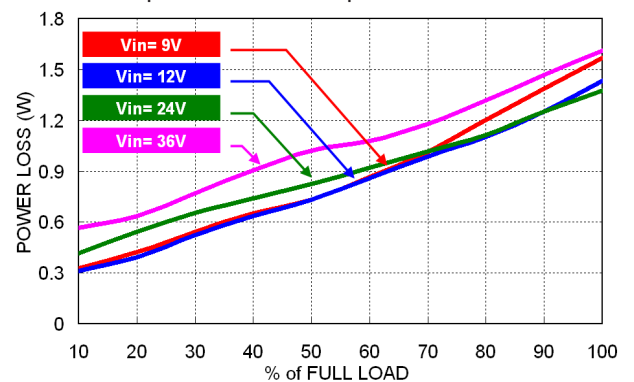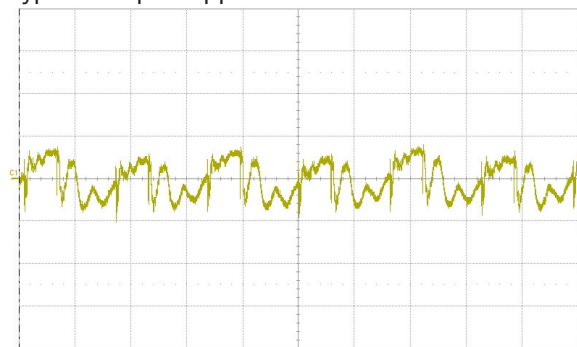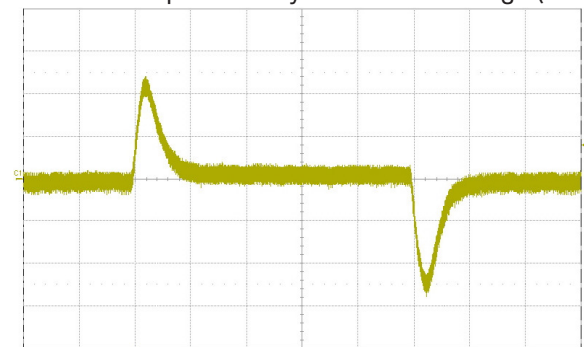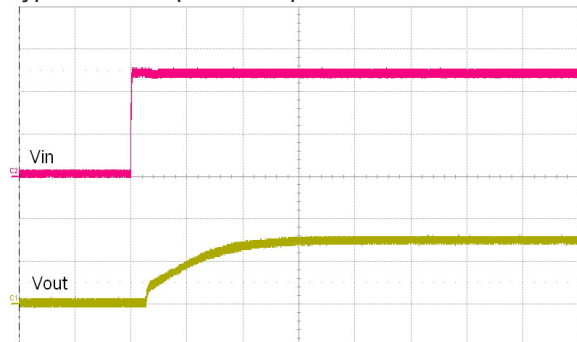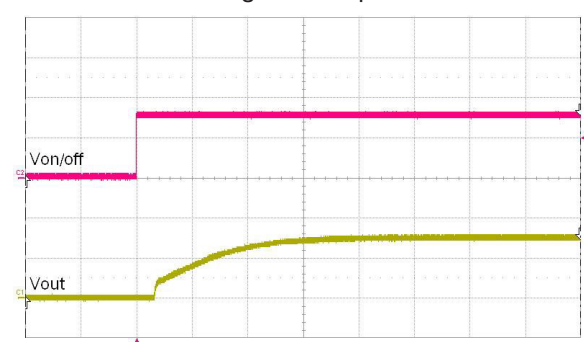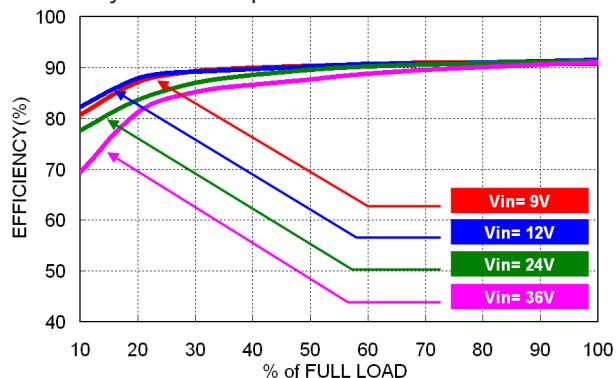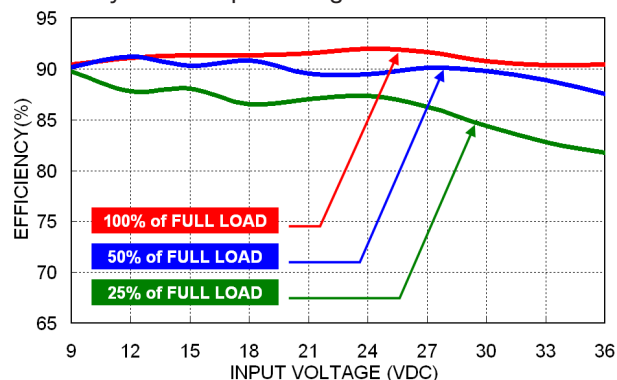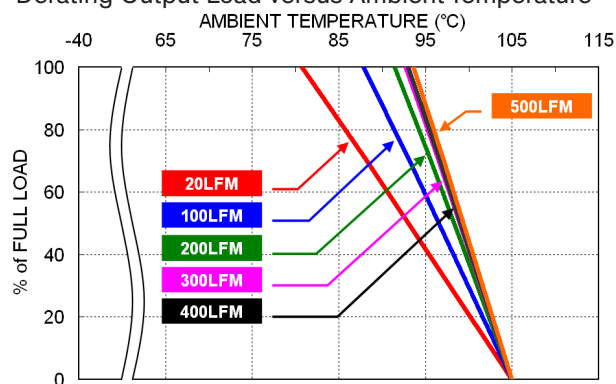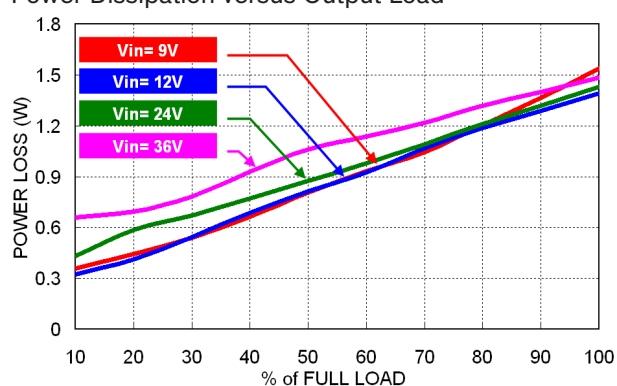## THN 15-2415WIR

Efficiency versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 10 V/Div   Von/off: 10 V/Div X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

TRACO POWER

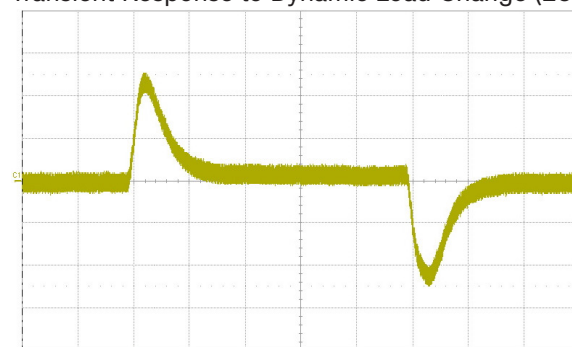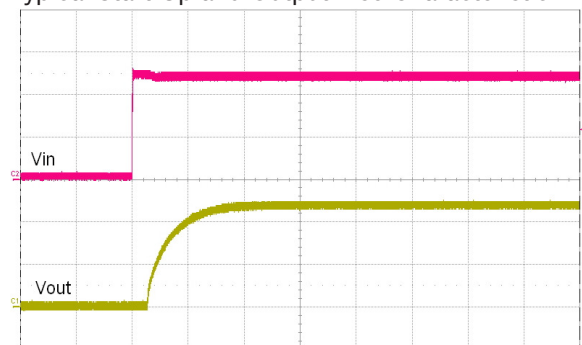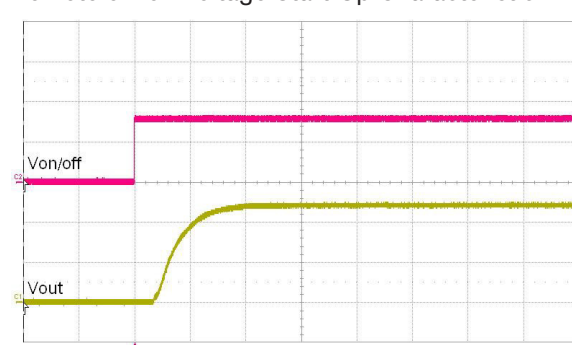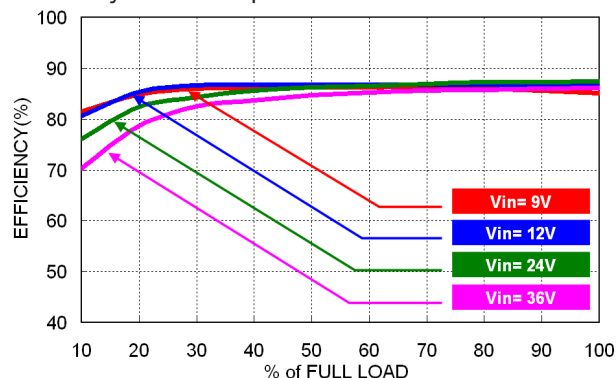**THN 15-2421WIR**

Efficiency versus Output Load

EFFICIENCY(%)

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

% of FULL LOAD

Efficiency versus Input Voltage

EFFICIENCY(%)

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

INPUT VOLTAGE (VDC)

Derating Output Load versus Ambient Temperature

AMBIENT TEMPERATURE (°C)

% of FULL LOAD

500LFM

20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

POWER LOSS (W)

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

% of FULL LOAD

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 2 V/Div   Von/off: 10 V/Div   X: 20 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

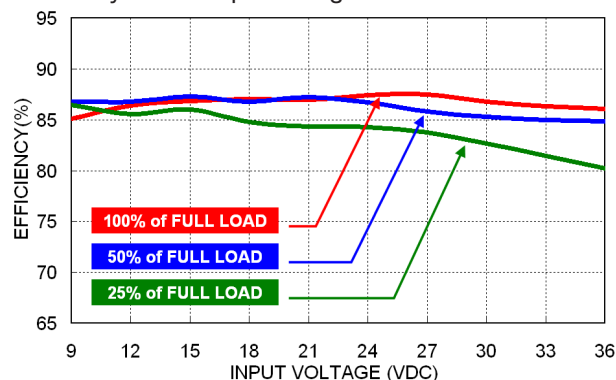Vout: 2 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
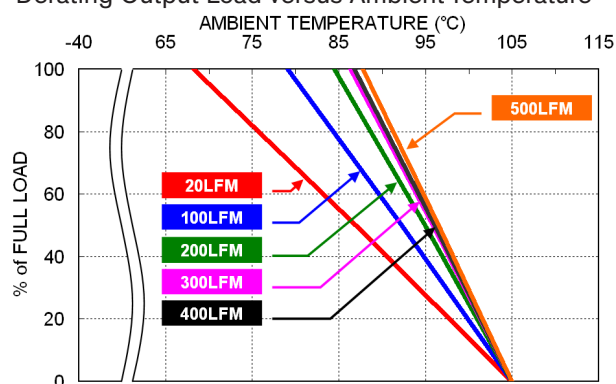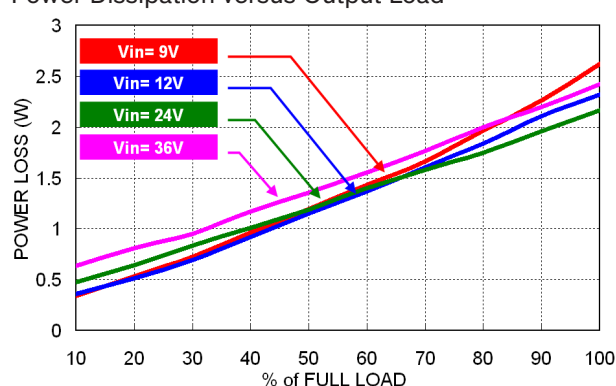
THN 15-2422WIR

Efficiency versus Output Load

Efficiency versus Input Voltage
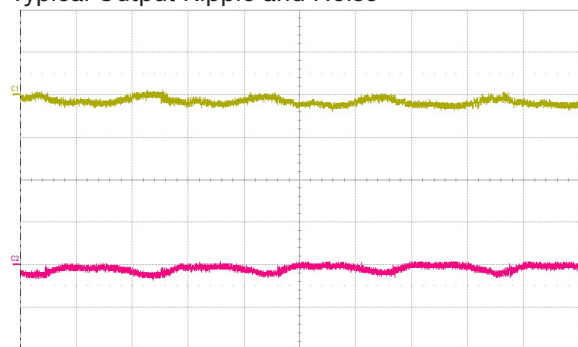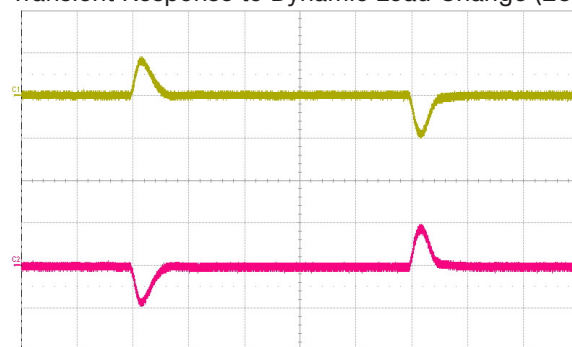

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

Typical Output Ripple and Noise
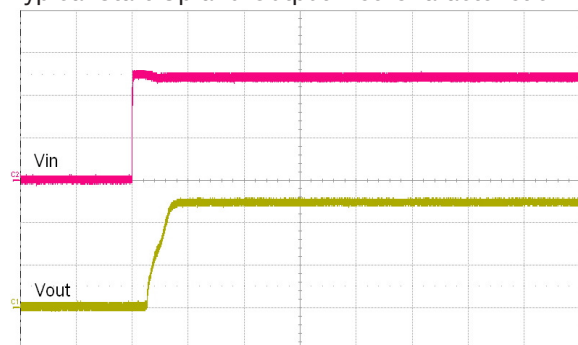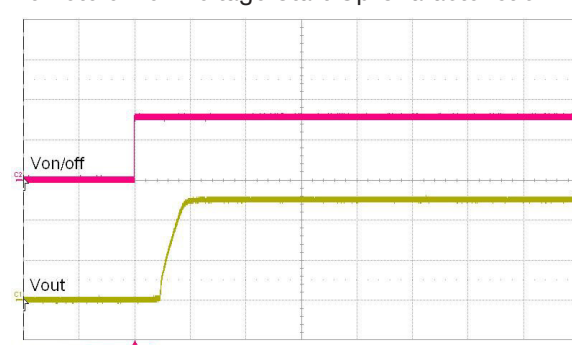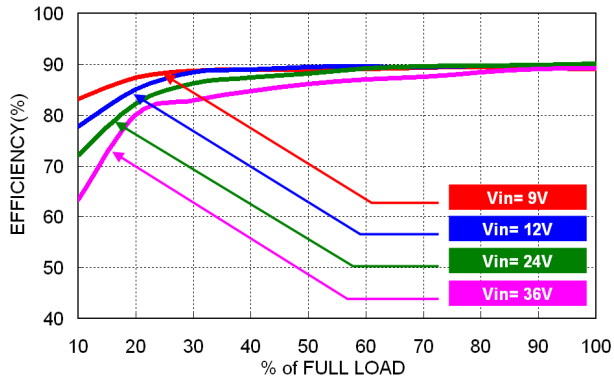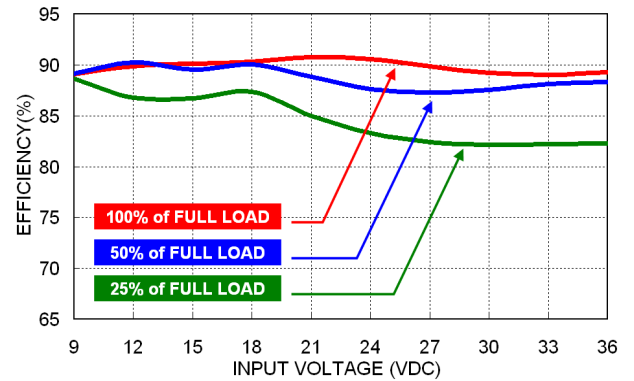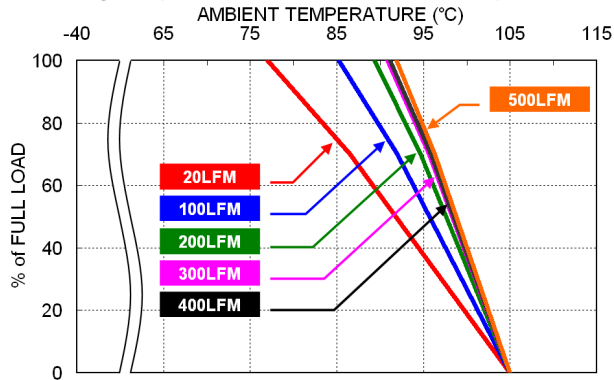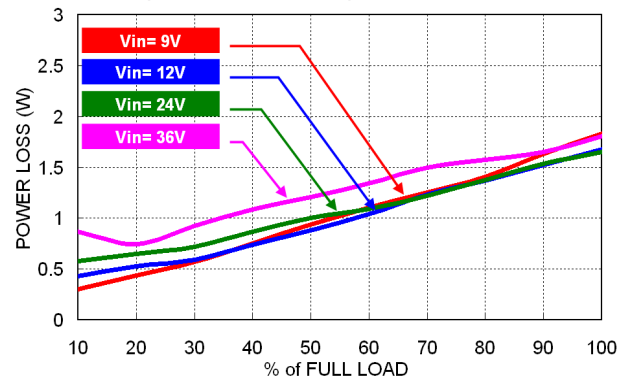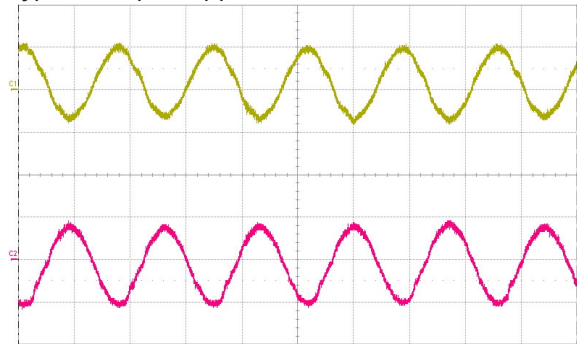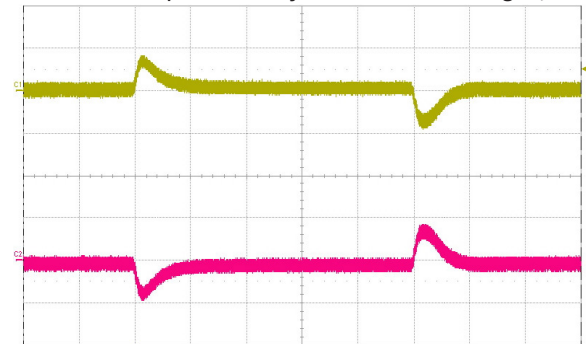

Y: 20 mV/Div   X: 2 µs/Div
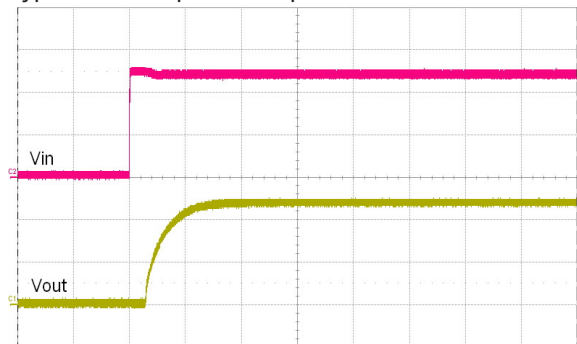
Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic
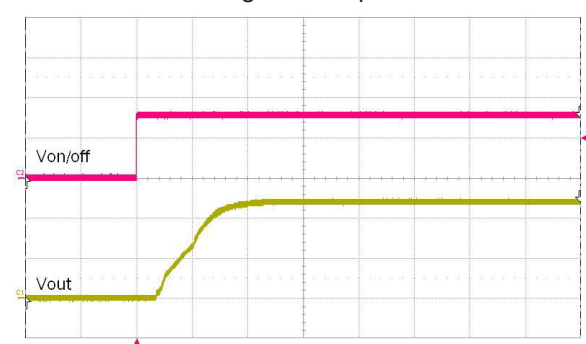

Vout: 5 V/Div   Vin: 10 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
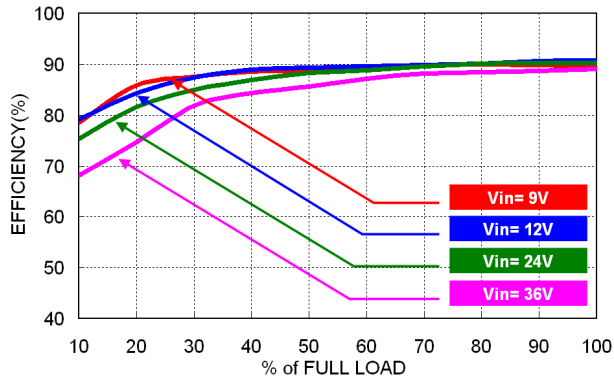

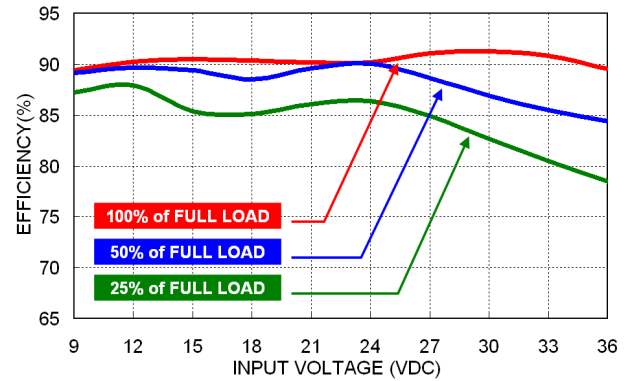Vout: 5 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

THN 15-2423WIR

Efficiency versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 10 V/Div   Von/off: 10 V/Div X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
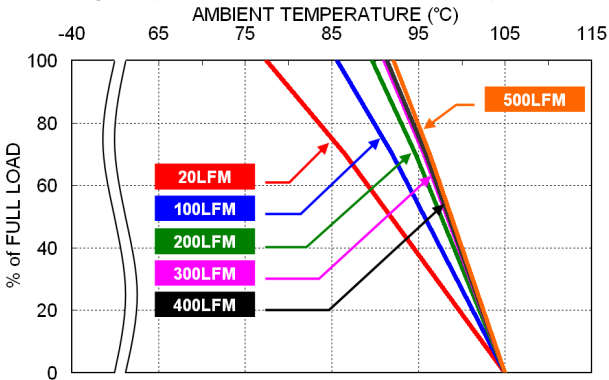
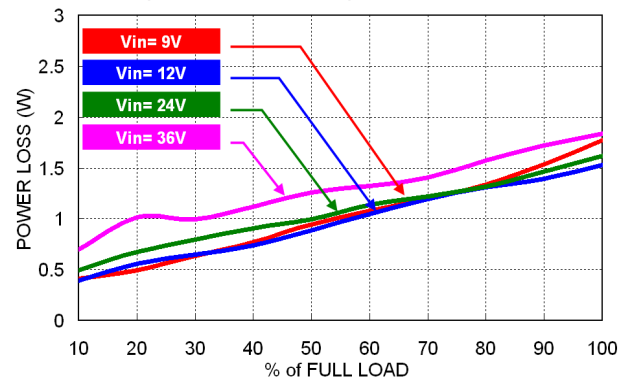**THN 15-2425WIR**

Efficiency versus Output Load

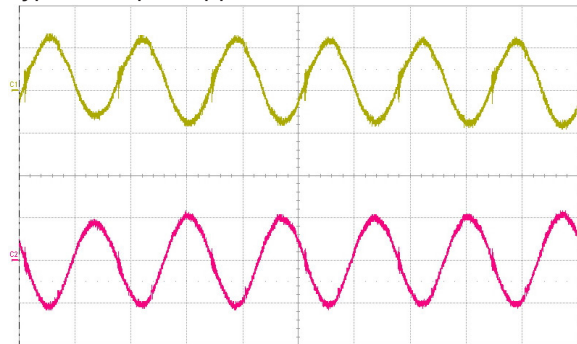Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
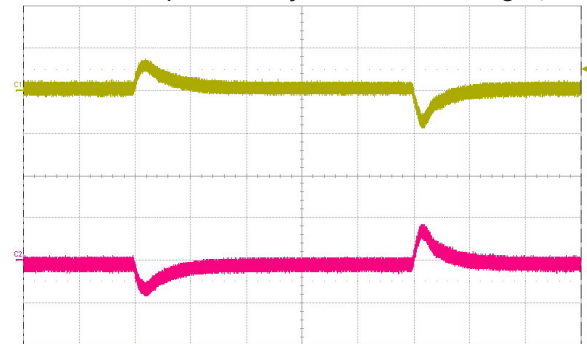

Power Dissipation versus Output Load

Typical Output Ripple and Noise

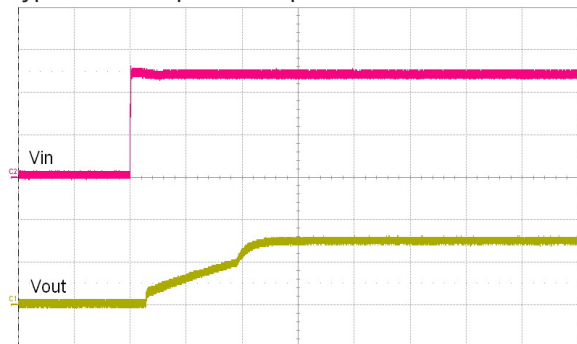Y: 20 mV/Div   X: 2 µs/Div

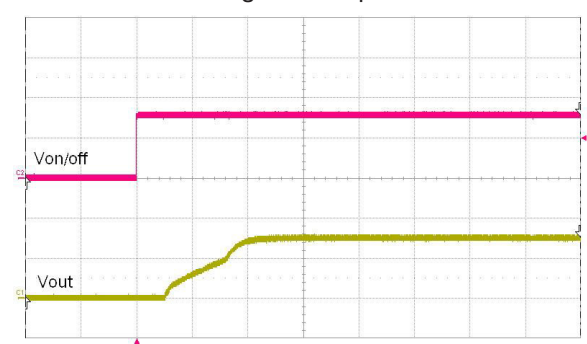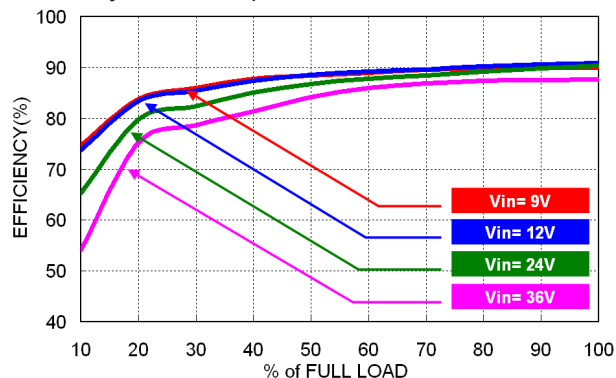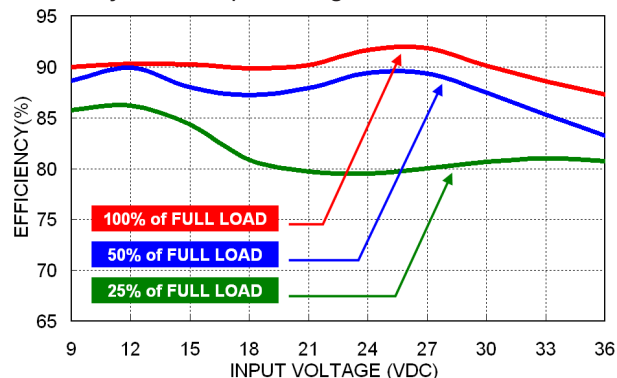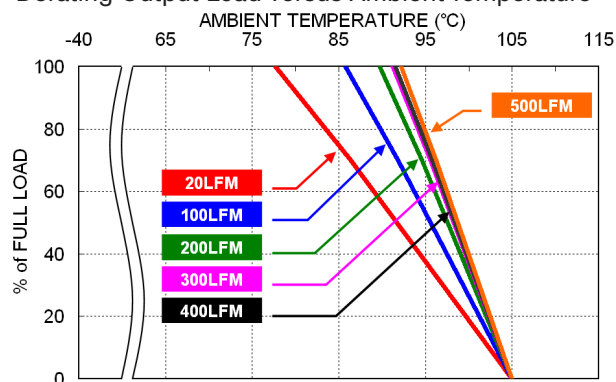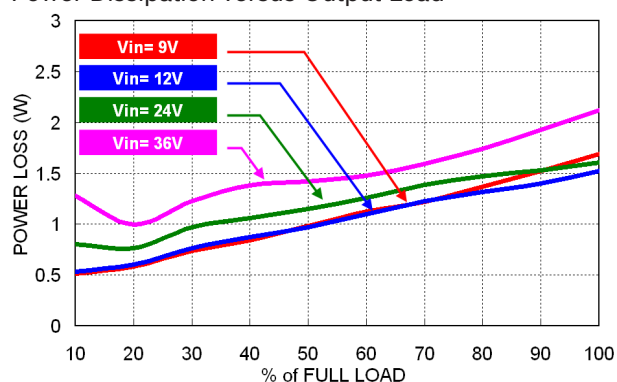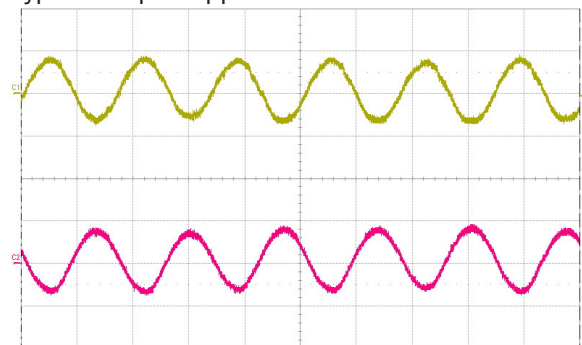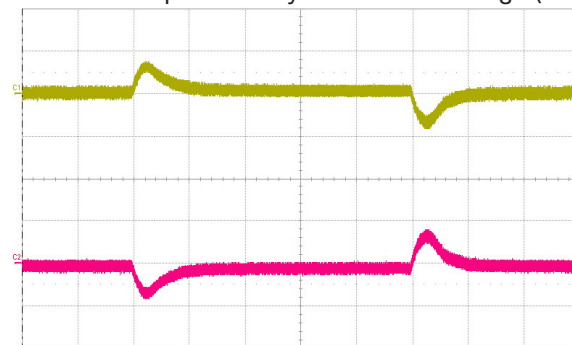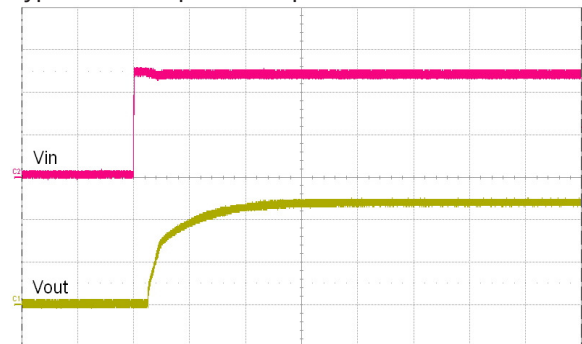Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

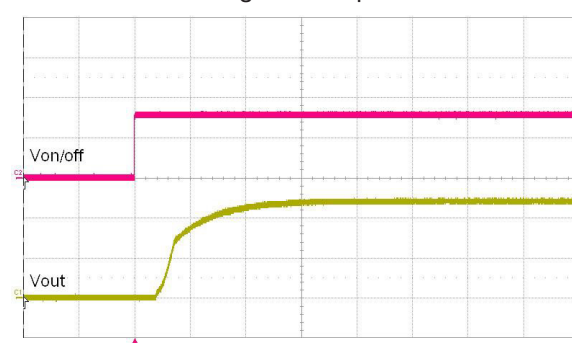Typical Start-Up and Output Rise Characteristic

Vout: 10 V/Div   Vin: 10 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
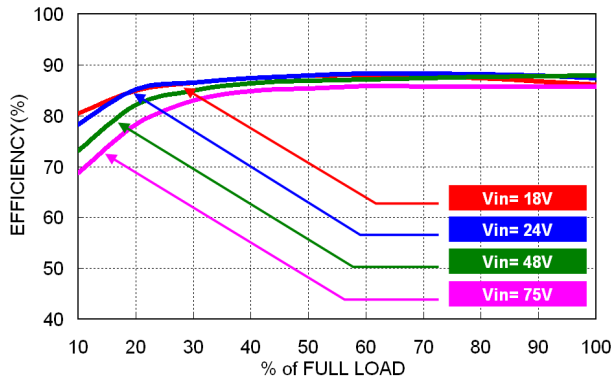

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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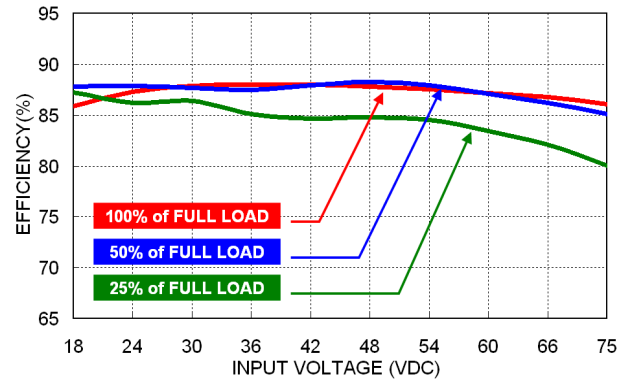
TRACO POWER

THN 15-4810WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 μs/Div

Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 μs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 2 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 2 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
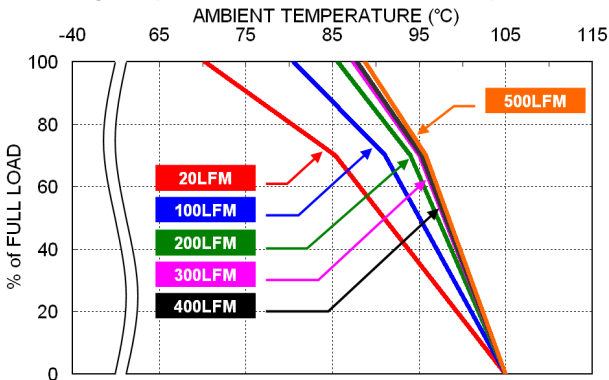
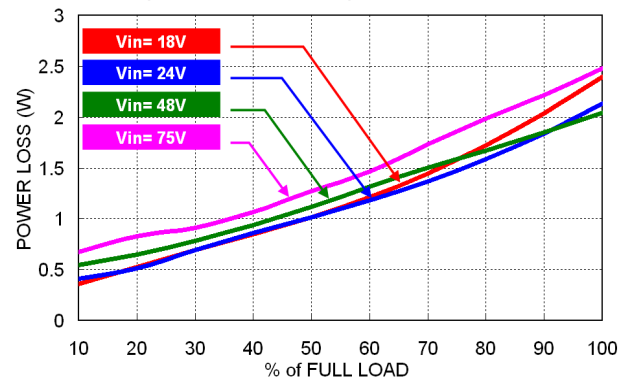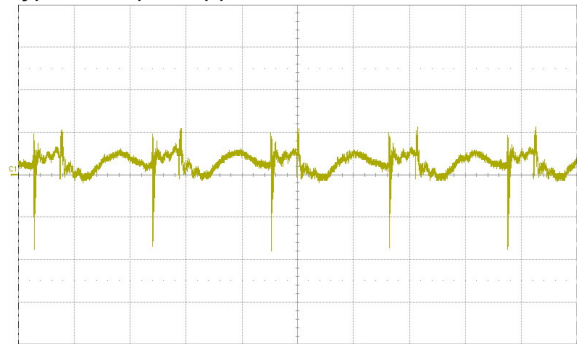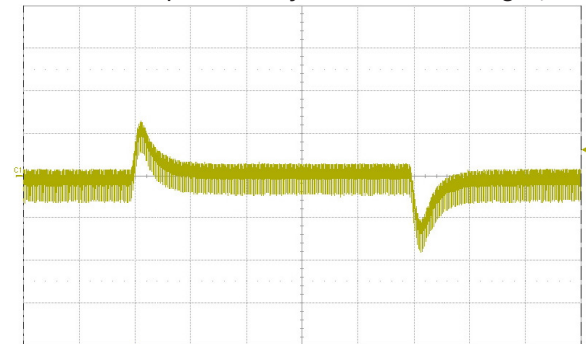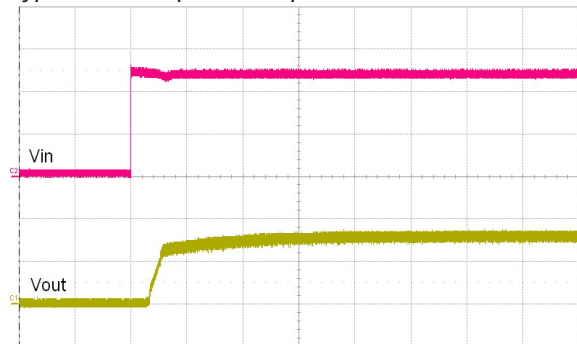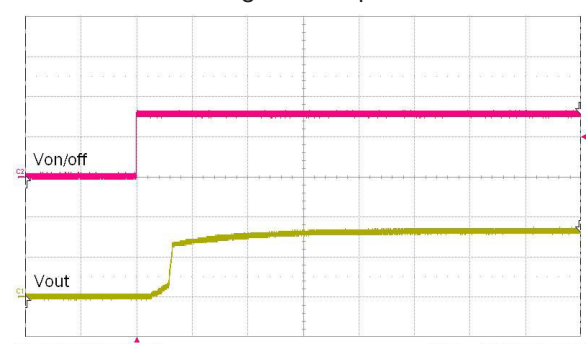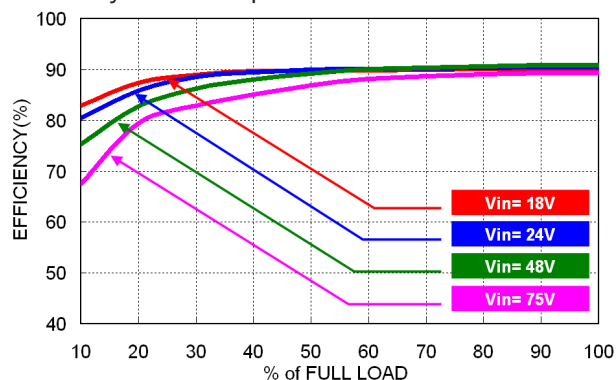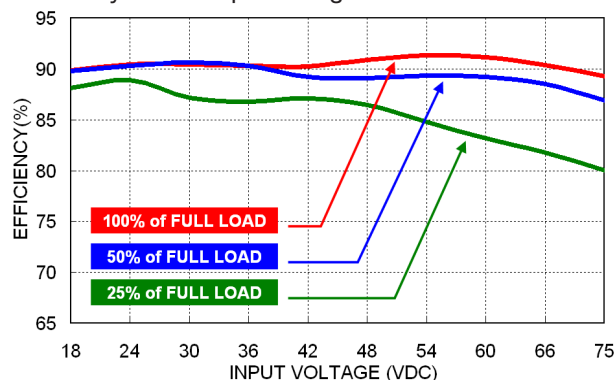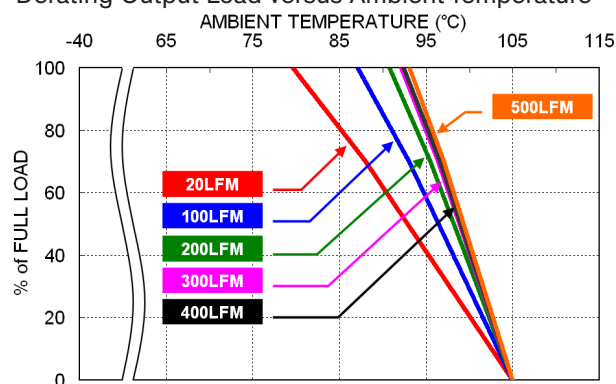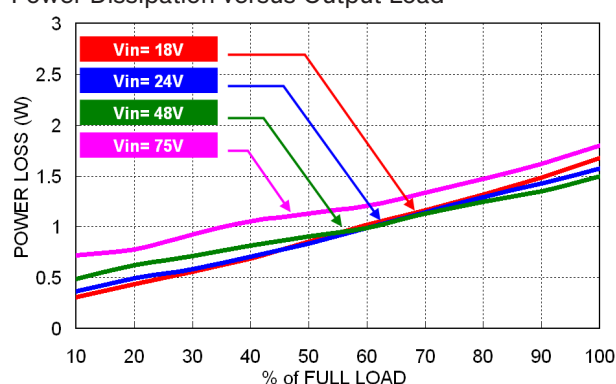## THN 15-4811WIR

Efficiency versus Output Load

Vin= 18V
Vin= 24V
Vin= 48V
Vin= 75V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 18V
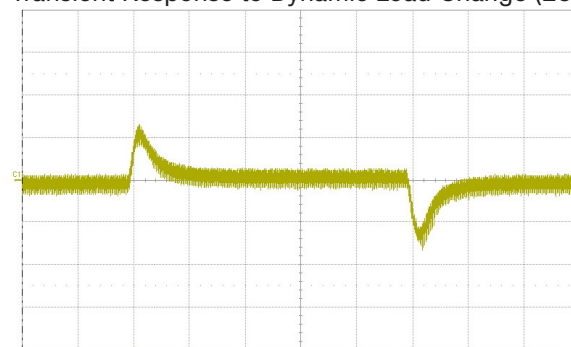Vin= 24V
Vin= 48V
Vin= 75V

Typical Output Ripple and Noise

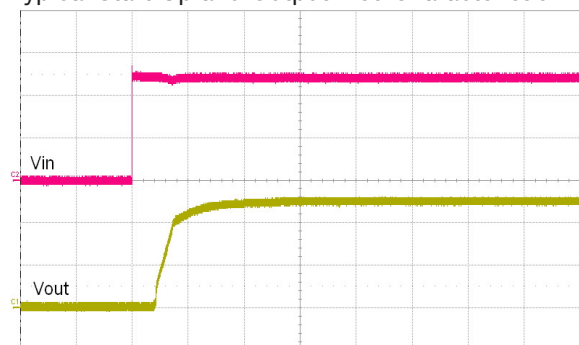Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic
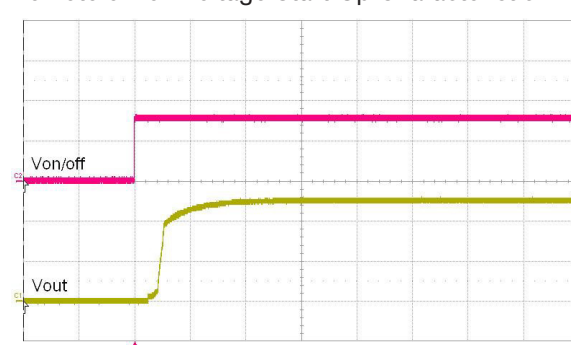

Vin
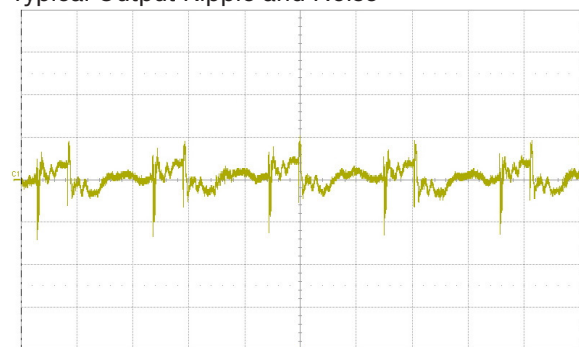
Vout

Vout: 2 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
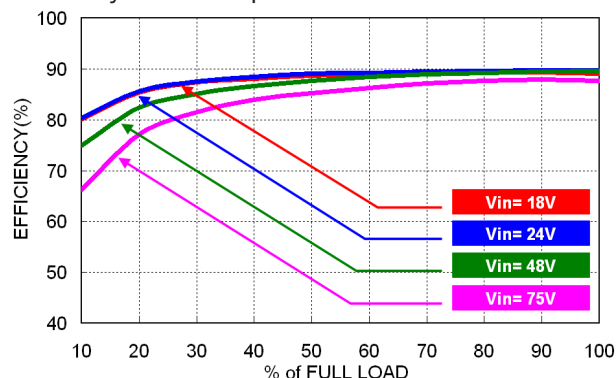

Von/off

Vout

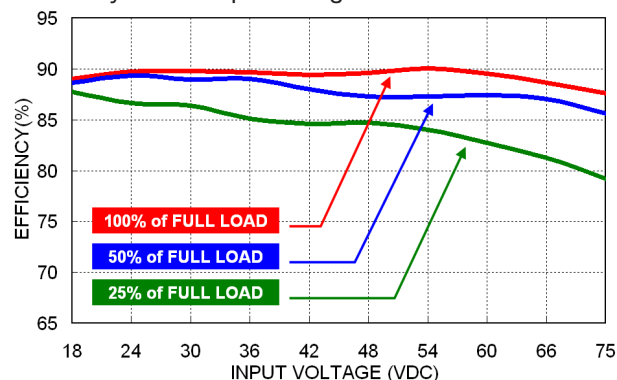Vout: 2 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
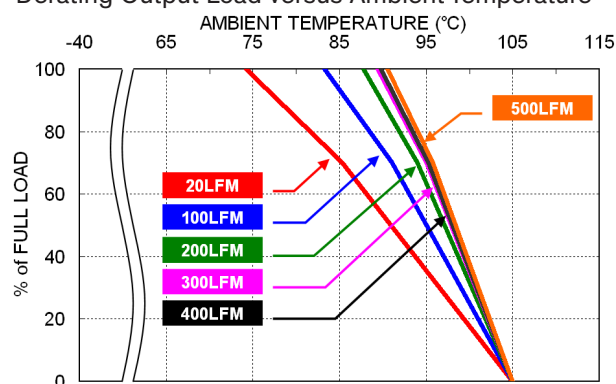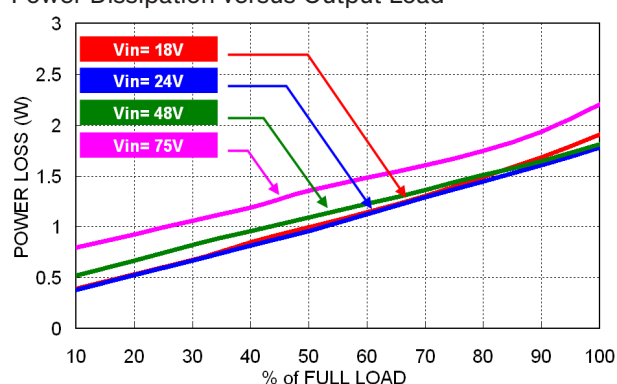
THN 15-4812WIR

Efficiency versus Output Load

EFFICIENCY(%)

% of FULL LOAD

Vin= 18V
Vin= 24V
Vin= 48V
Vin= 75V

Efficiency versus Input Voltage

EFFICIENCY(%)

INPUT VOLTAGE (VDC)

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

AMBIENT TEMPERATURE (°C)

% of FULL LOAD

500LFM

20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

POWER LOSS (W)

% of FULL LOAD

Vin= 18V
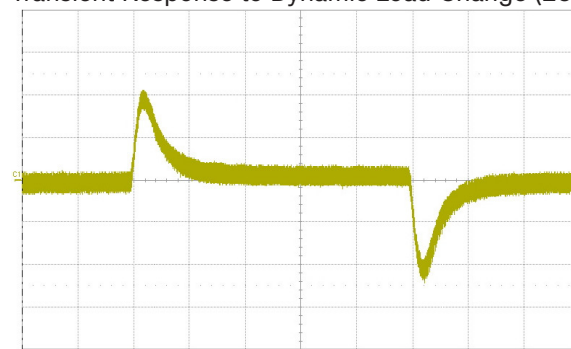Vin= 24V
Vin= 48V
Vin= 75V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div
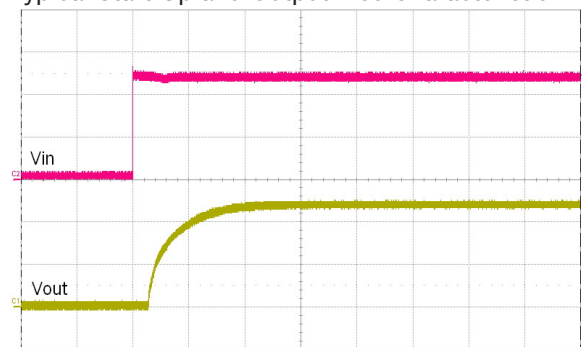
Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div
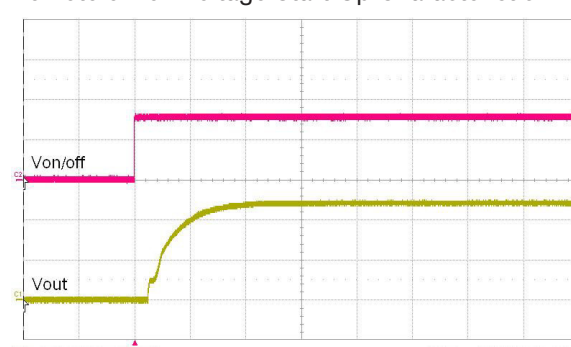
Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 5 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
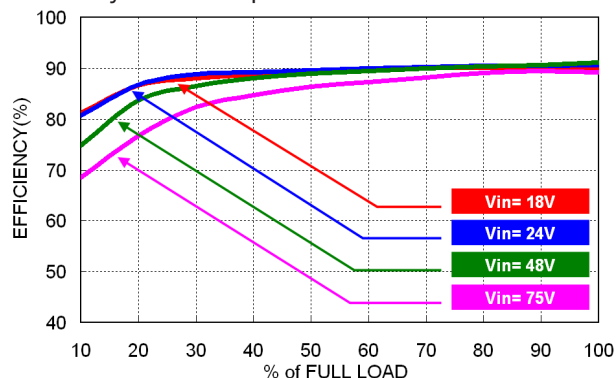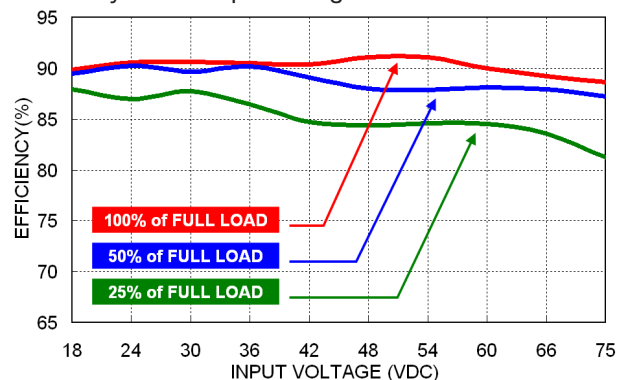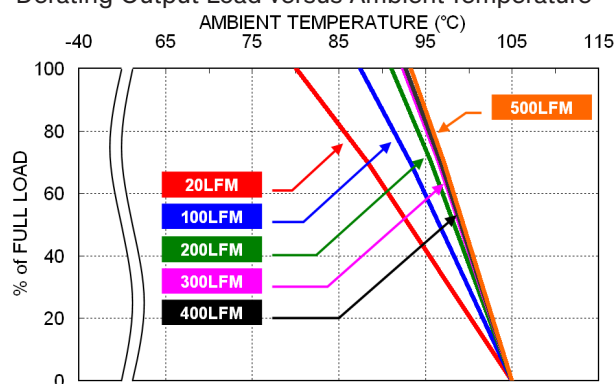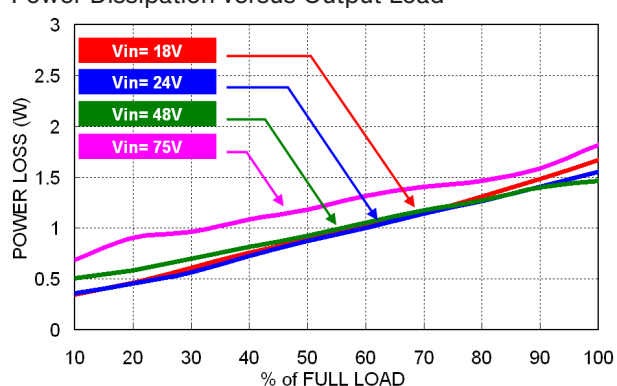

Von/off

Vout

Vout: 5 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

TRACO POWER

THN 15WIR Series
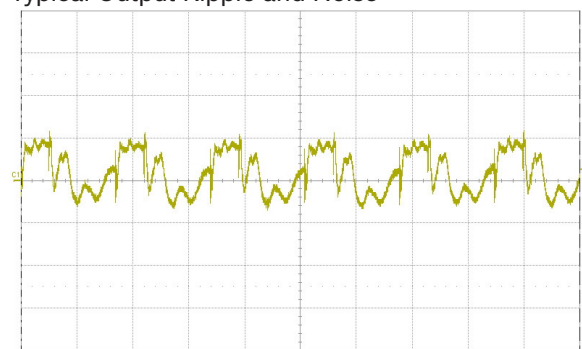
THN 15-4813WIR

Efficiency versus Output Load

Vin= 18V
Vin= 24V
Vin= 48V
Vin= 75V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 18V
Vin= 24V
Vin= 48V
Vin= 75V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 μs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 μs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 10 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

THN 15-4815WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

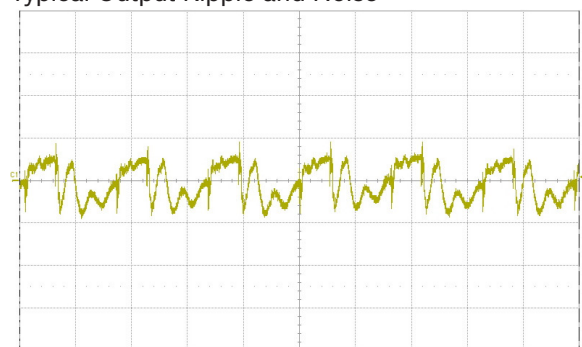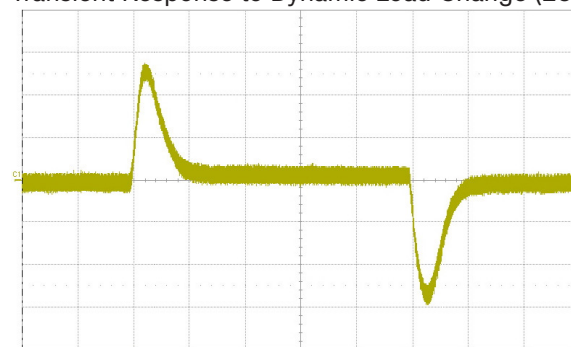

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

Typical Output Ripple and Noise

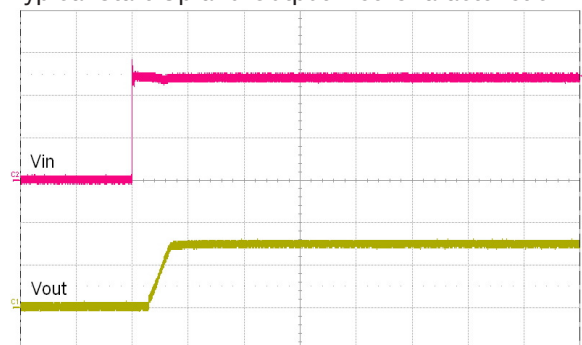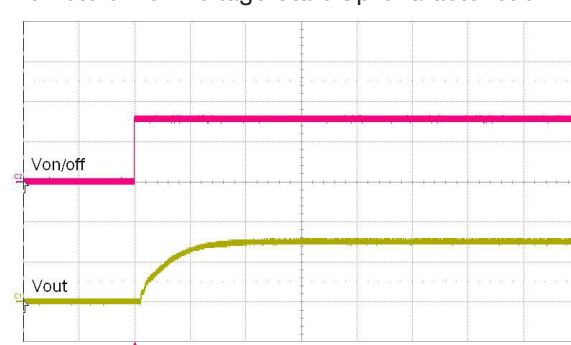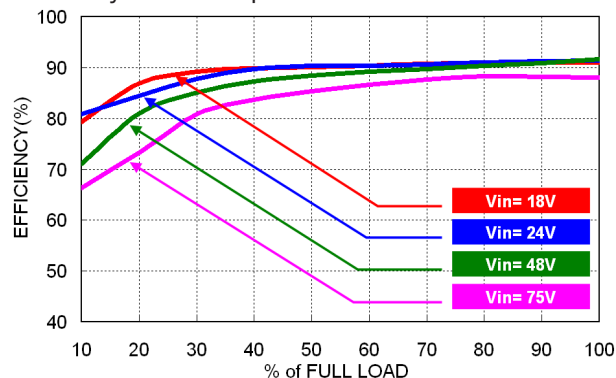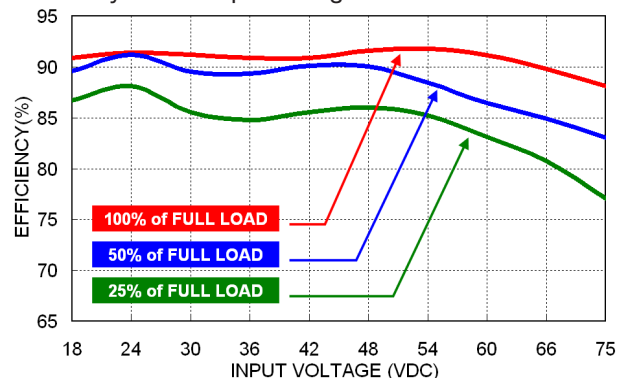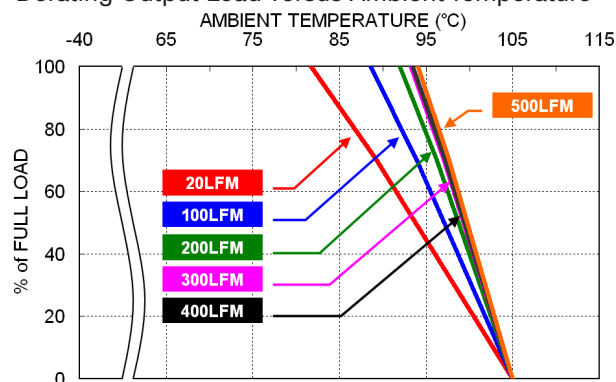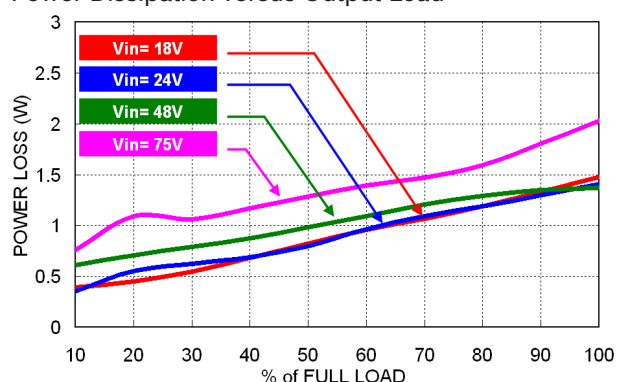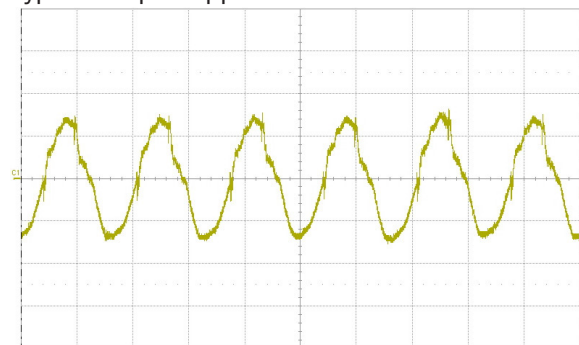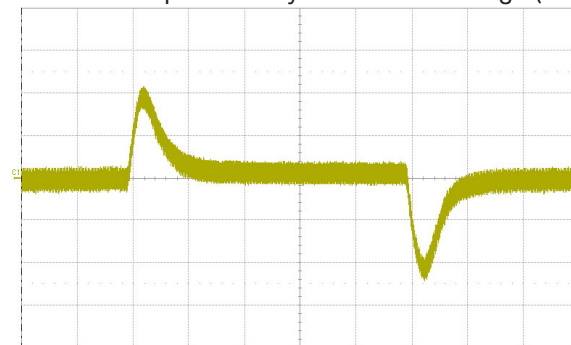Y: 20 mV/Div   X: 2 µs/Div
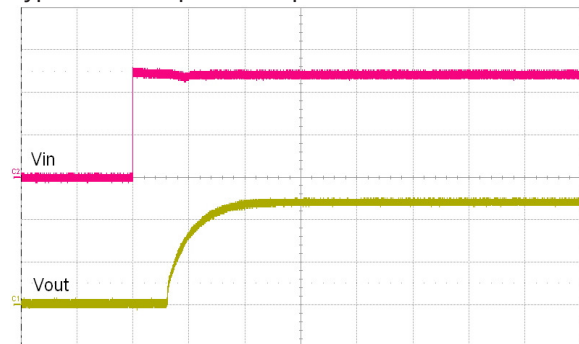
Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic
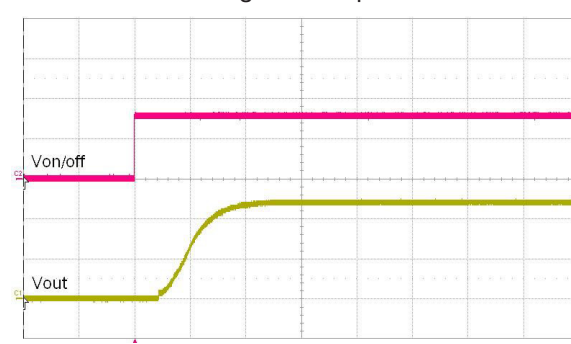

Vout: 10 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
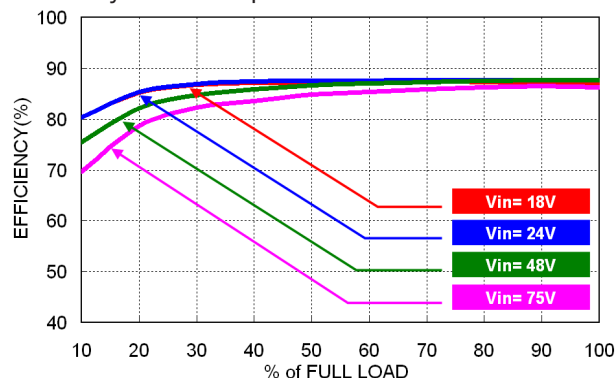

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
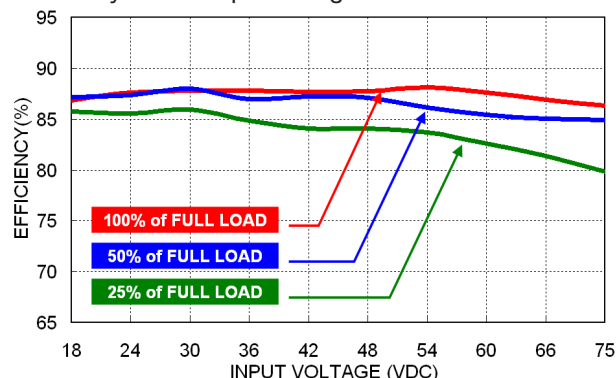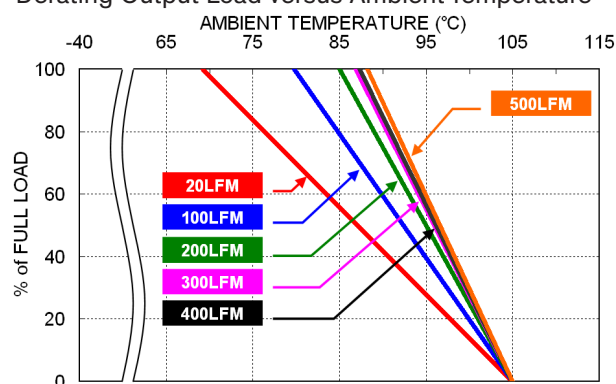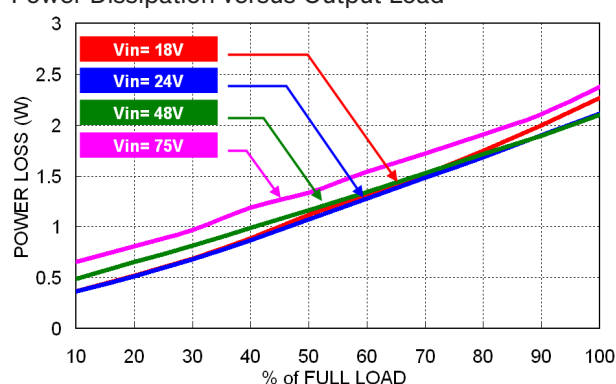
THN 15-4821WIR

Efficiency versus Output Load

- Vin= 18V
- Vin= 24V
- Vin= 48V
- Vin= 75V

Efficiency versus Input Voltage

- 100% of FULL LOAD
- 50% of FULL LOAD
- 25% of FULL LOAD

Derating Output Load versus Ambient Temperature

- 500LFM
- 20LFM
- 100LFM
- 200LFM
- 300LFM
- 400LFM

Power Dissipation versus Output Load

- Vin= 18V
- Vin= 24V
- Vin= 48V
- Vin= 75V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 μs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 μs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 2 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 2 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

THN 15-4822WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

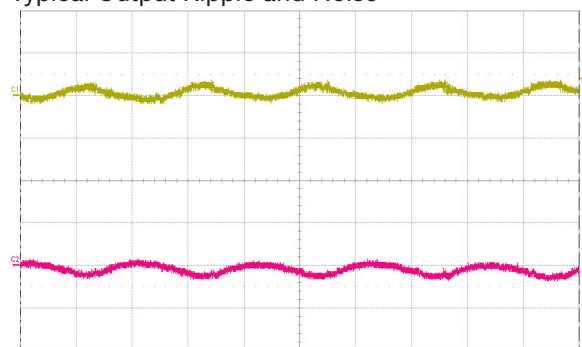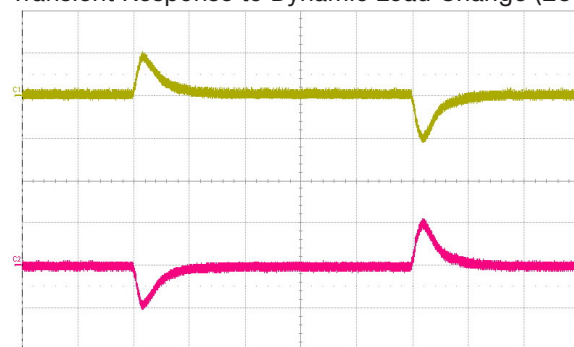### Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

Typical Output Ripple and Noise
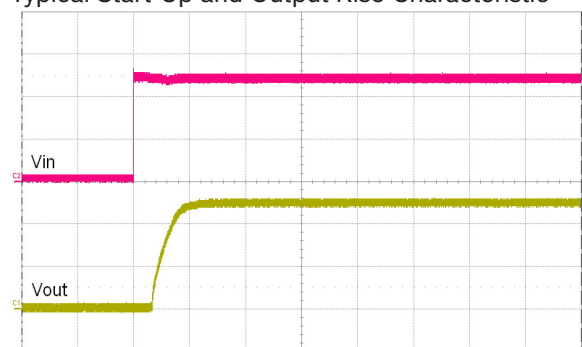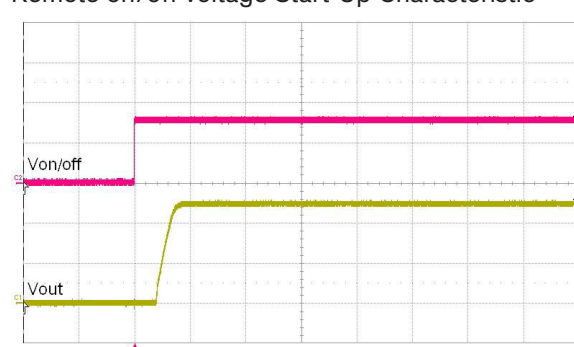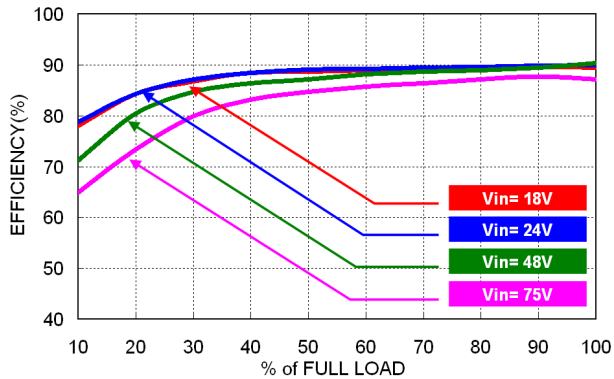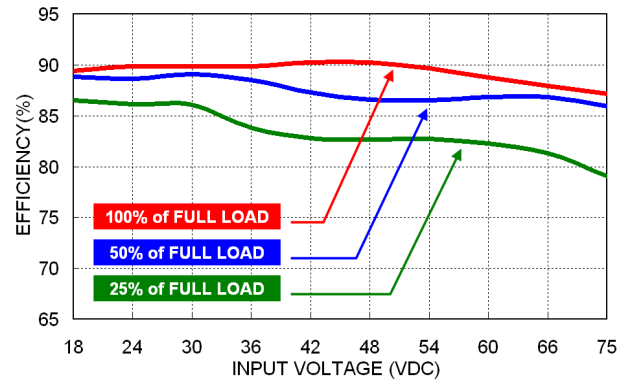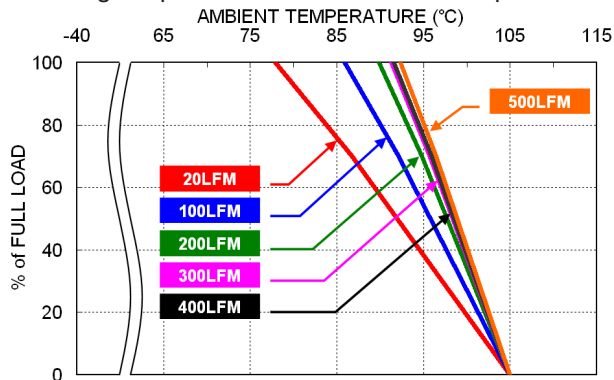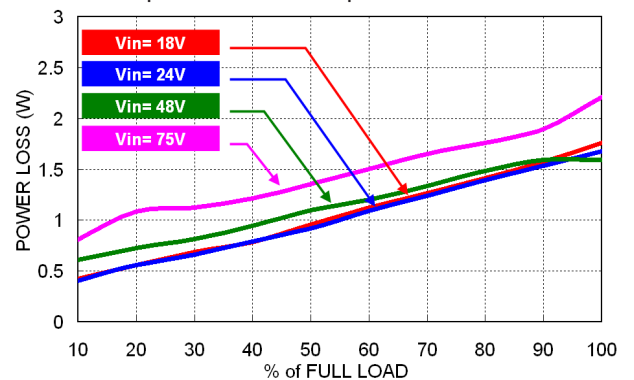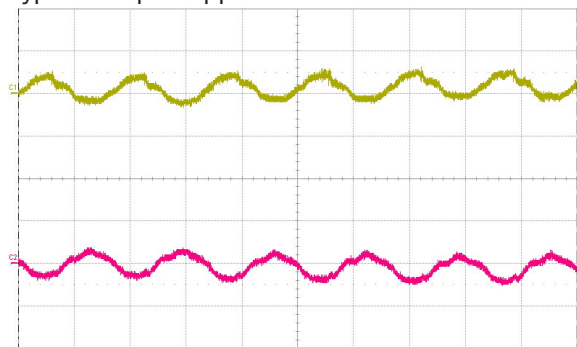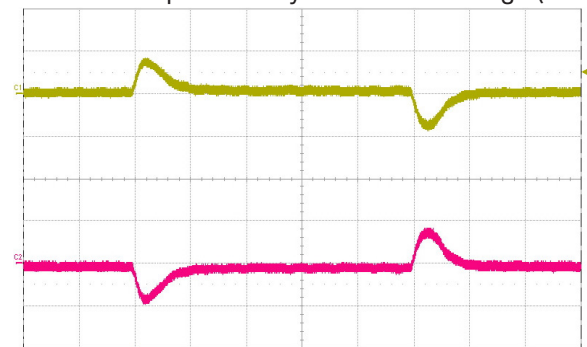

Y: 20 mV/Div   X: 2 µs/Div
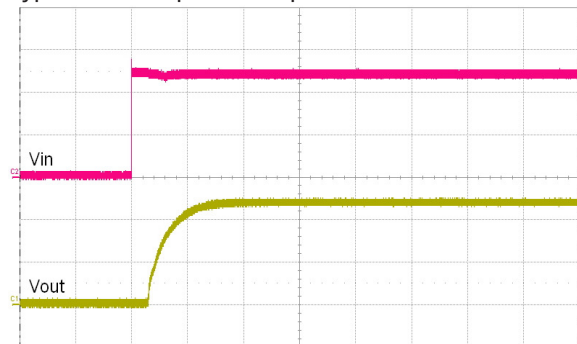
Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic
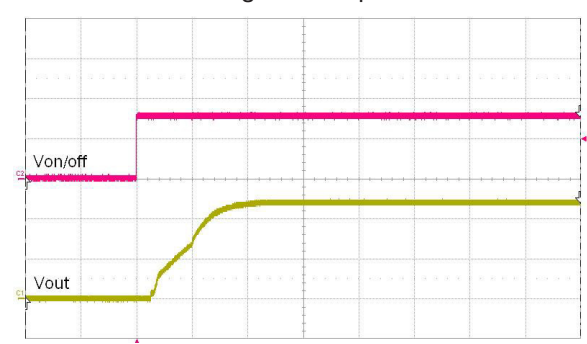

Vout: 5 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
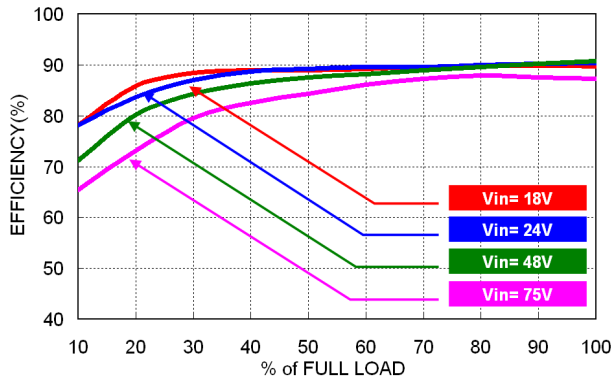

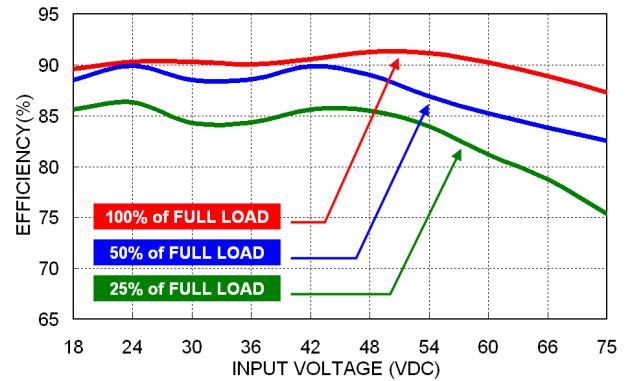Vout: 5 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
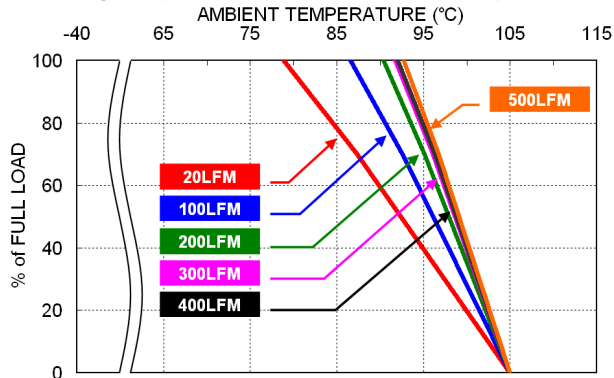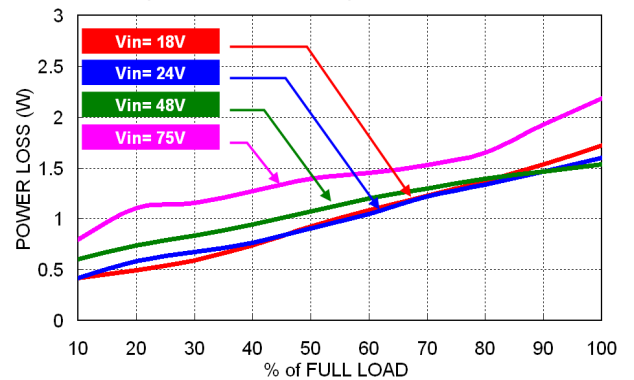
THN 15-4823WIR

Efficiency versus Output Load

Efficiency versus Input Voltage
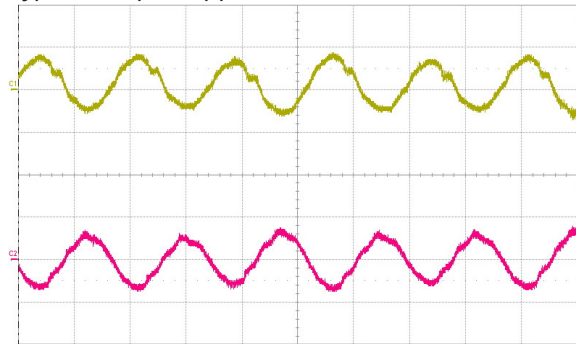

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load
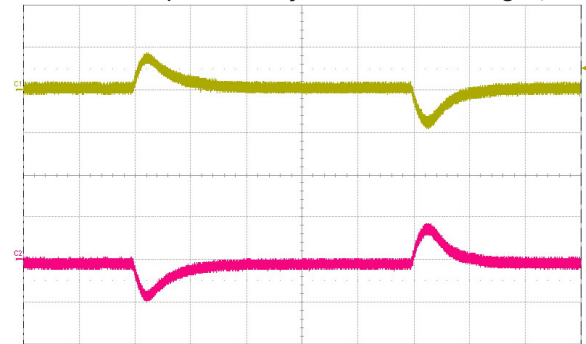

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div
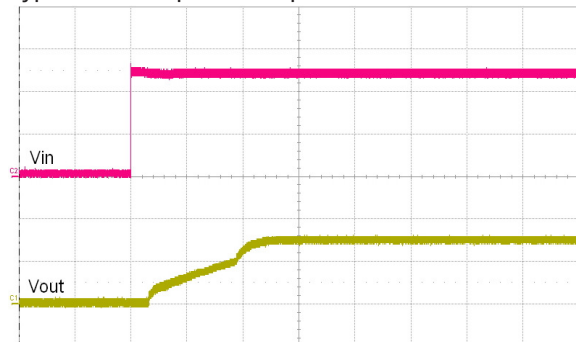
Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

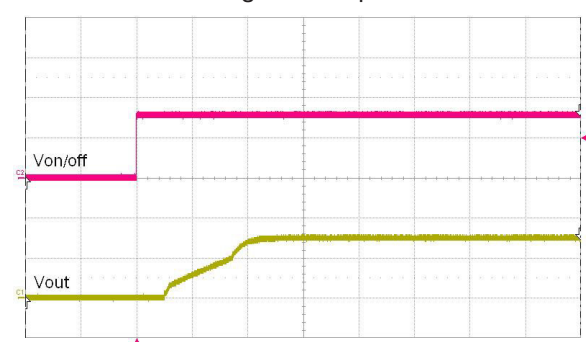### Typical Start-Up and Output Rise Characteristic

Vout: 10 V/Div   Vin: 20 V/Div   X: 10 ms/Div

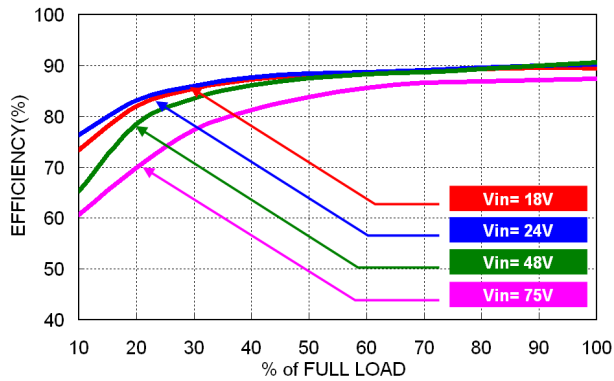### Remote on/off Voltage Start-Up Characteristic

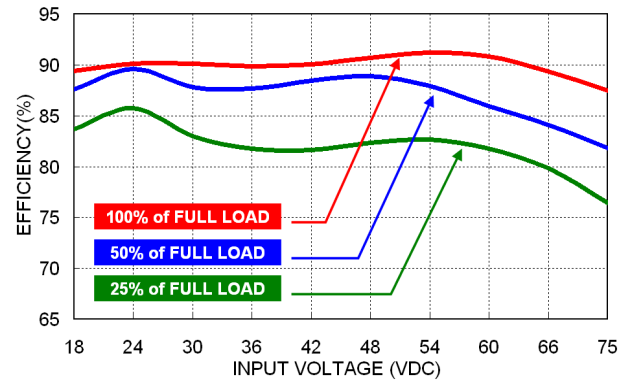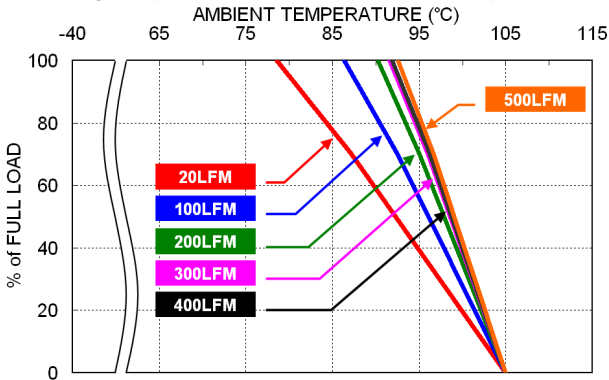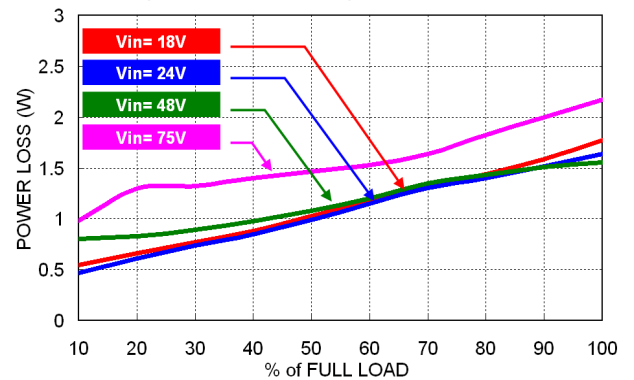Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

TRACO POWER

THN 15-4825WIR

Efficiency versus Output Load

Vin= 18V
Vin= 24V
Vin= 48V
Vin= 75V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 18V
Vin= 24V
Vin= 48V
Vin= 75V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin
Vout

Vout: 10 V/Div   Vin: 20 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off
Vout

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

THN 15-7210WIR

Efficiency versus Output Load

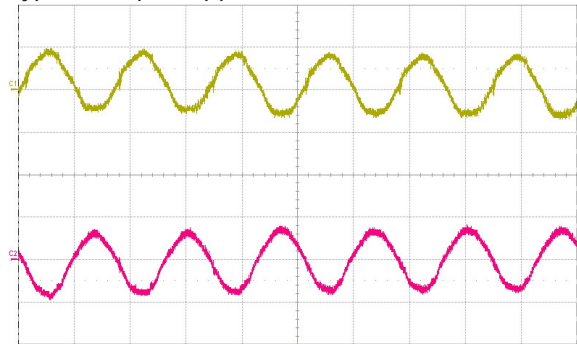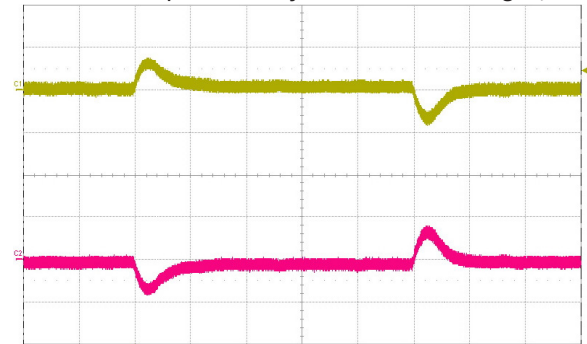### Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

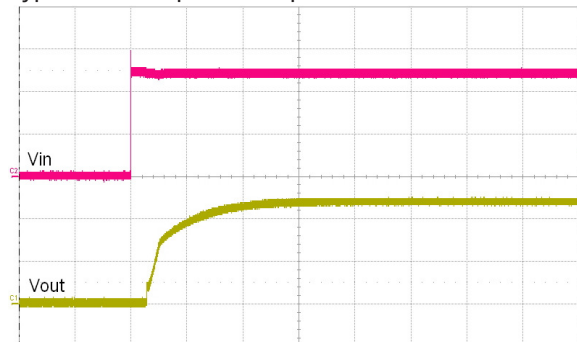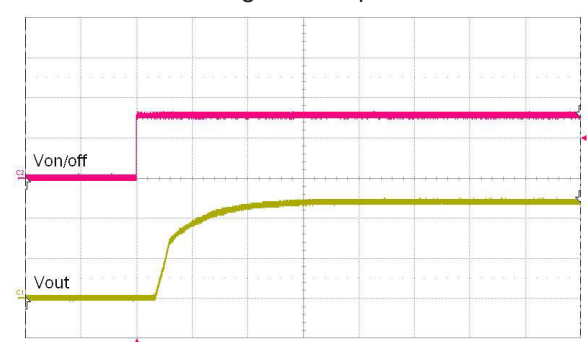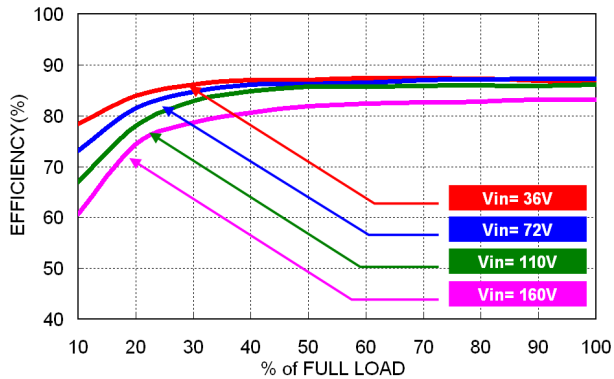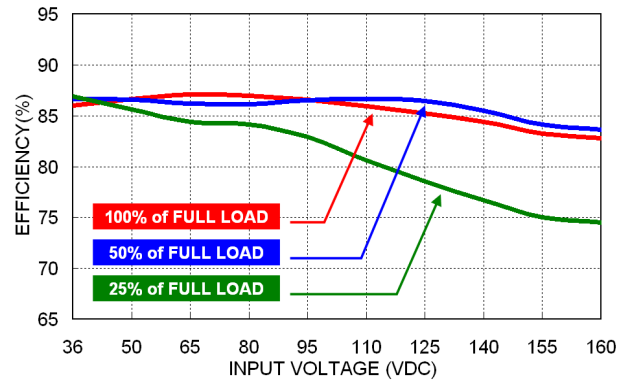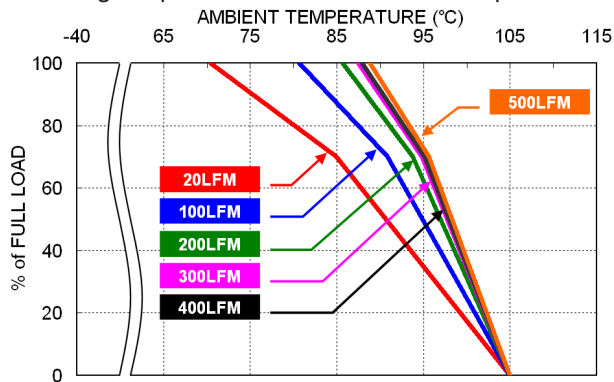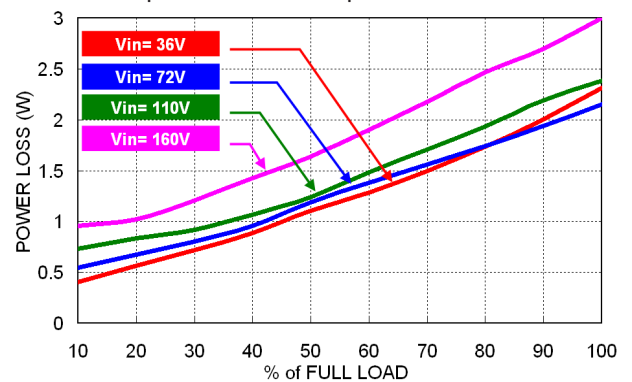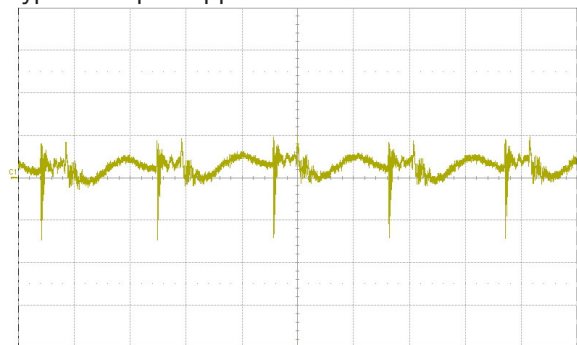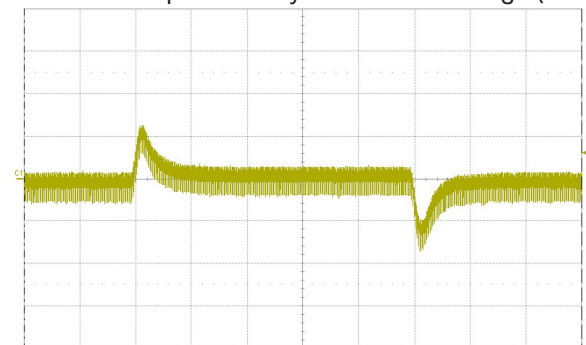### Typical Output Ripple and Noise

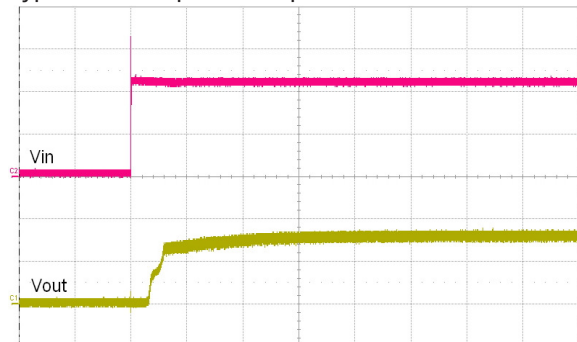

Y: 20 mV/Div   Y: 20 mV/Div   X: 20 µs/Div

Transient Response to Dynamic Load Change (25%)
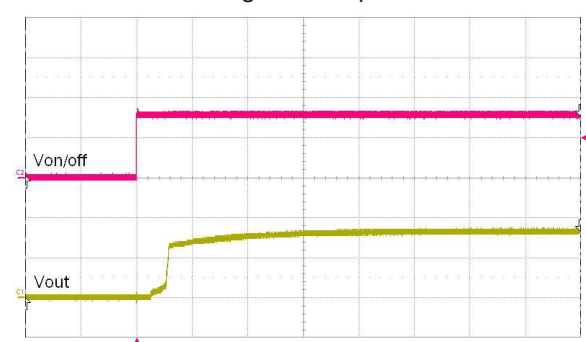

Y: 20 mV/Div   Y: 20 mV/Div   X: 20 µs/Div

Typical Start-Up and Output Rise Characteristic

Vout: 20 V/Div   Vin: 20 V/Div   X: 20 ms/Div

Remote on/off Voltage Start-Up Characteristic
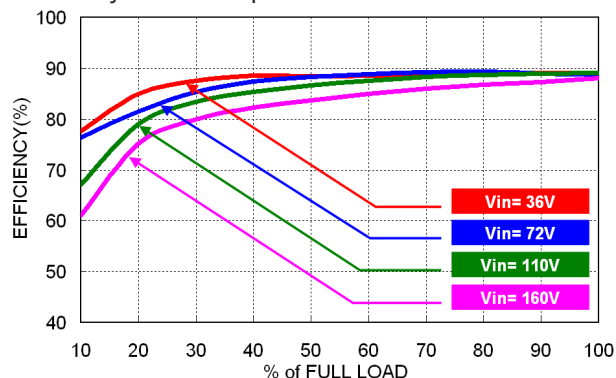

Vout: 20 V/Div   Von/off: 20 V/Div   X: 20 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
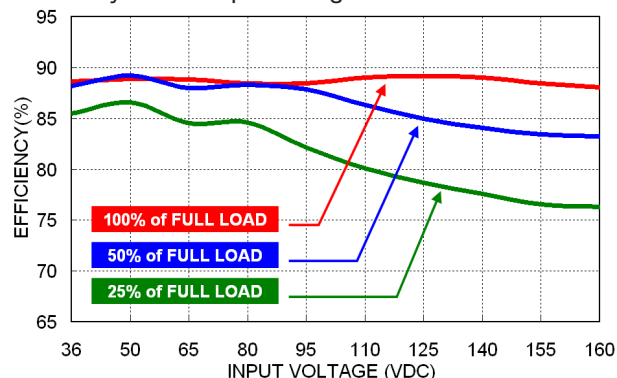
THN 15-7211WIR

Efficiency versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
Vin= 160V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
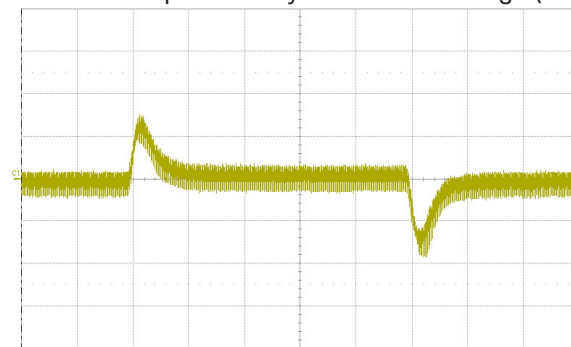Vin= 160V

Typical Output Ripple and Noise

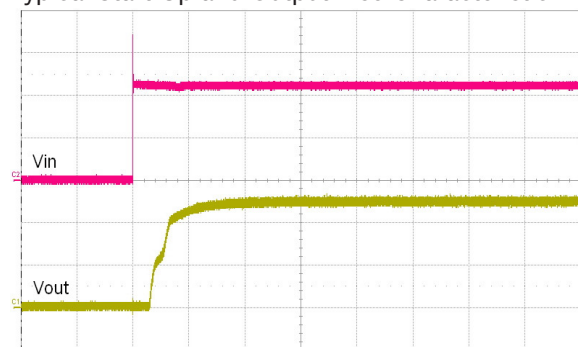Y: 20 mV/Div   X: 2 μs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 μs/Div

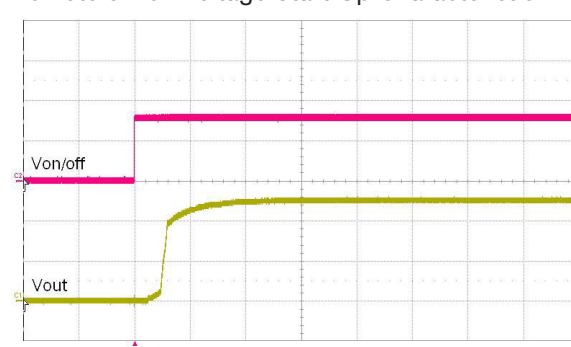### Typical Start-Up and Output Rise Characteristic

Vin
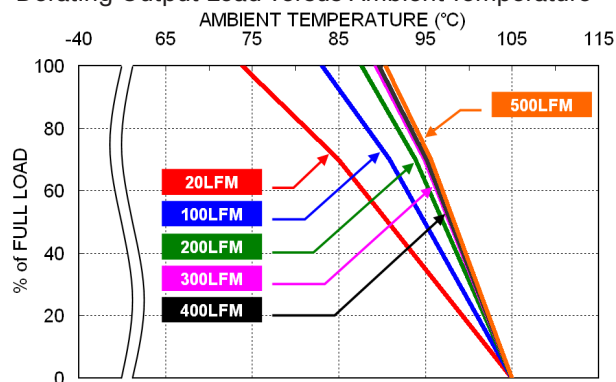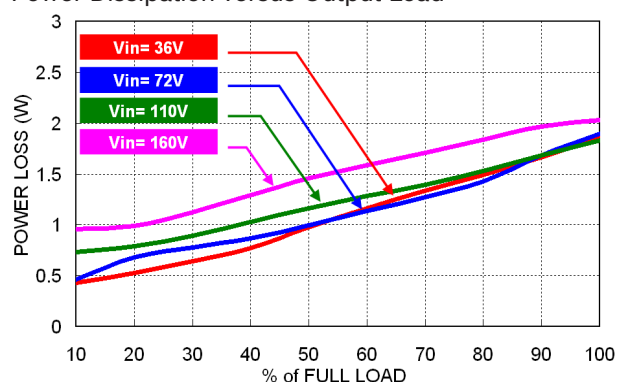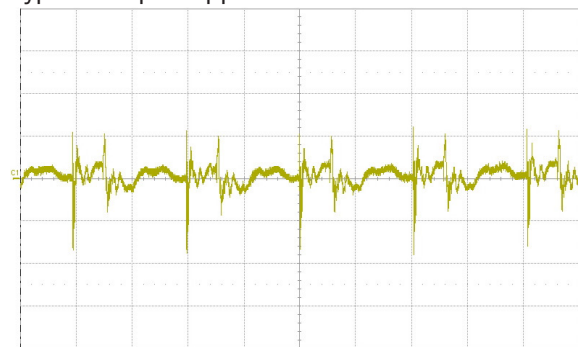
Vout

Vout: 2 V/Div   Vin: 50 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
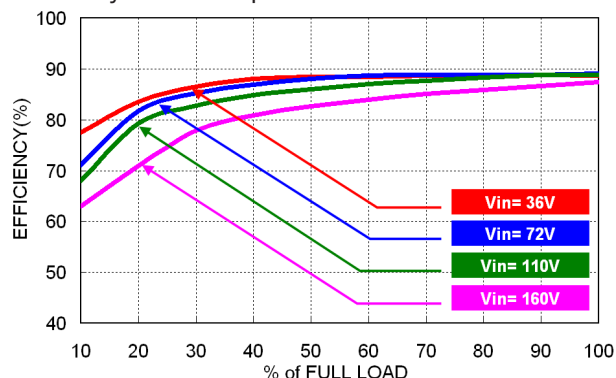

Von/off

Vout

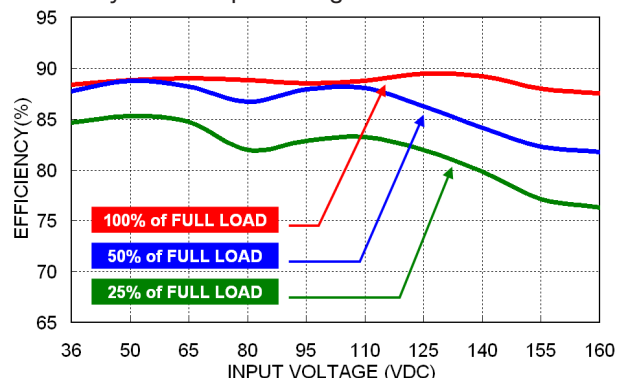Vout: 2 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
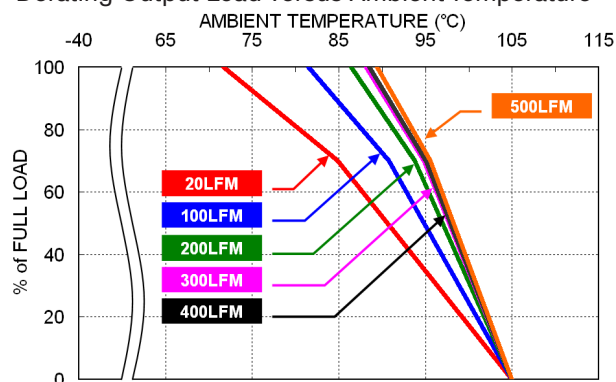
THN 15-7212WIR
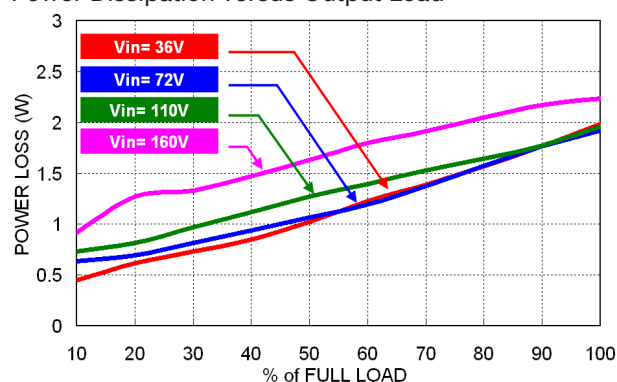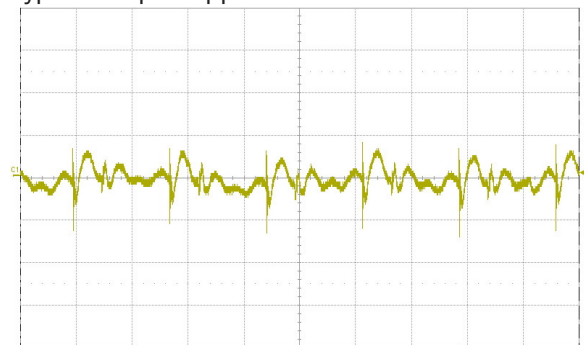
Efficiency versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
Vin= 160V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 36V
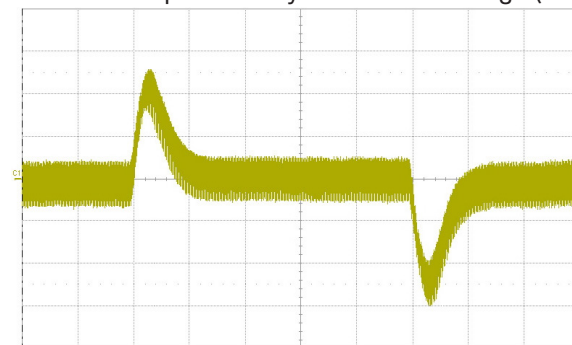Vin= 72V
Vin= 110V
Vin= 160V

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 μs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 μs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 5 V/Div   Vin: 50 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 5 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

THN 15-7213WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

Typical Output Ripple and Noise

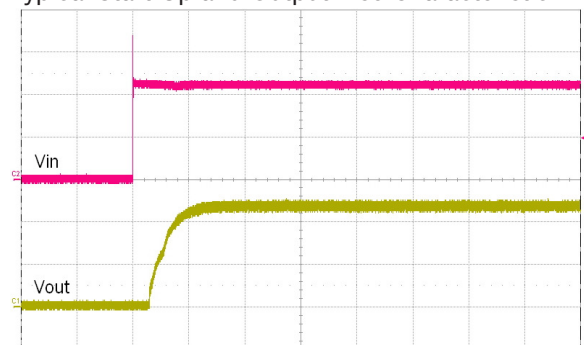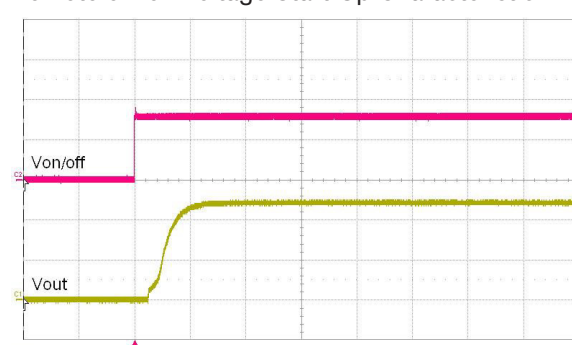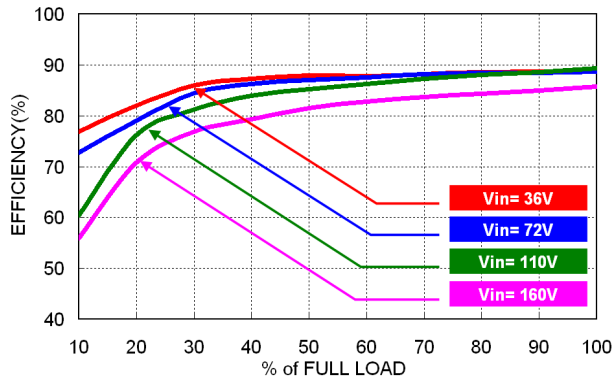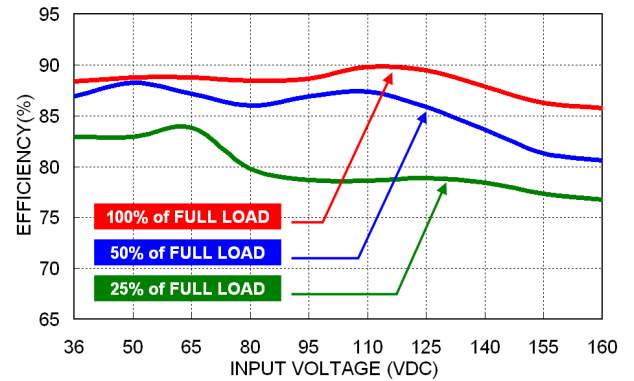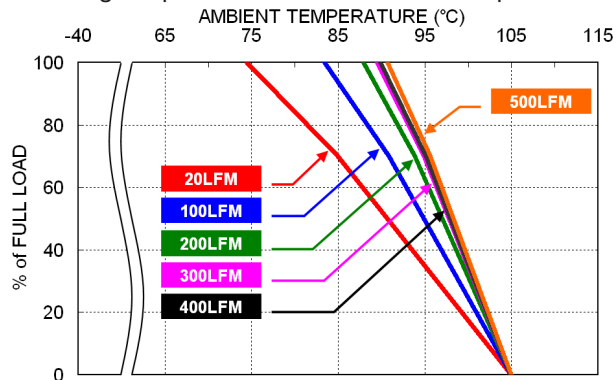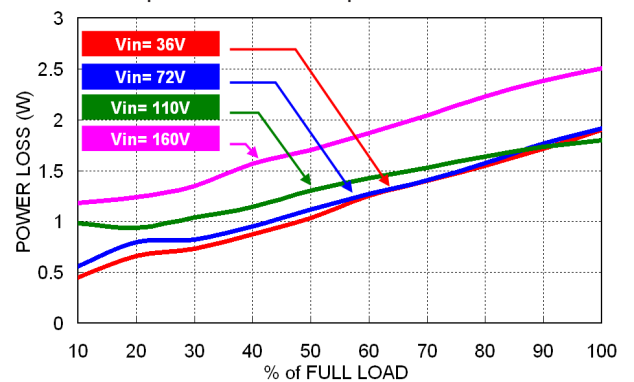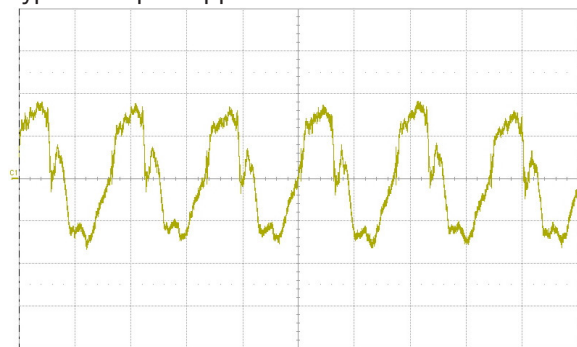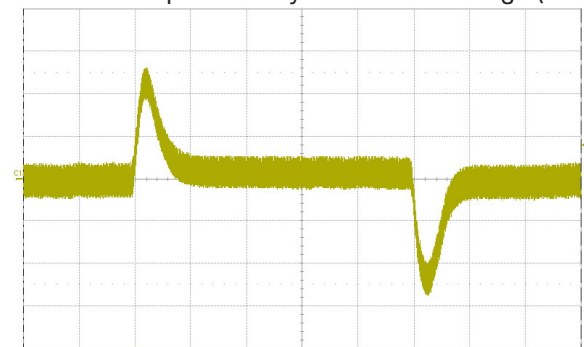Y: 20 mV/Div   X: 2 µs/Div
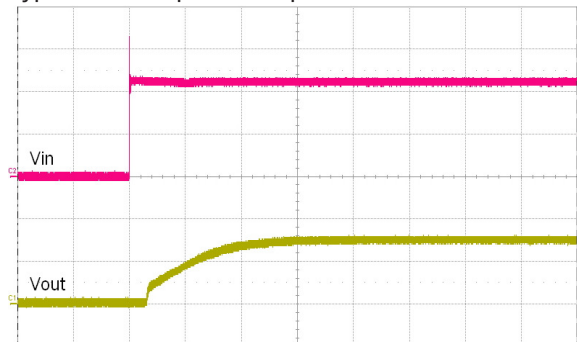
Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic
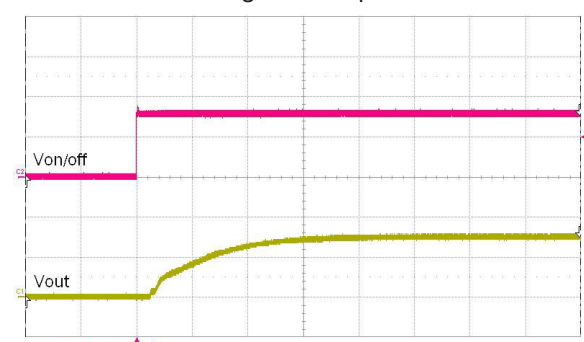

Vout: 10 V/Div   Vin: 50 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

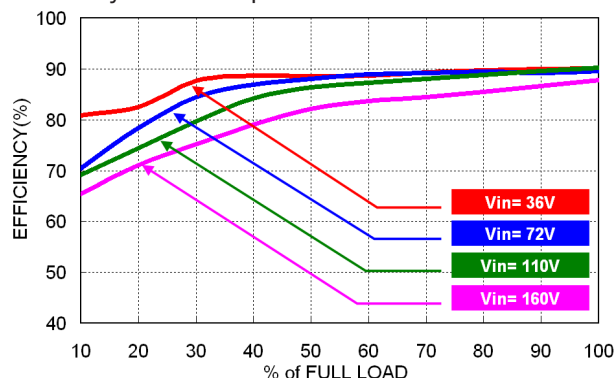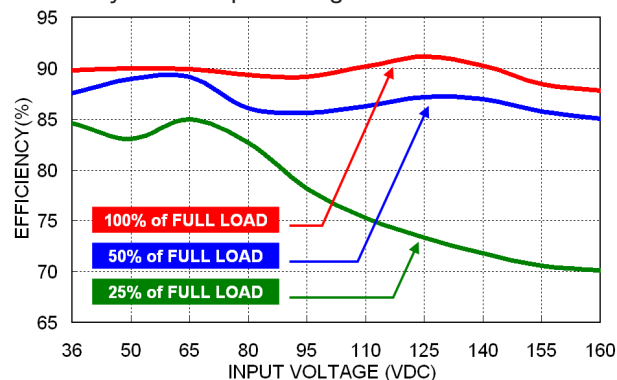Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
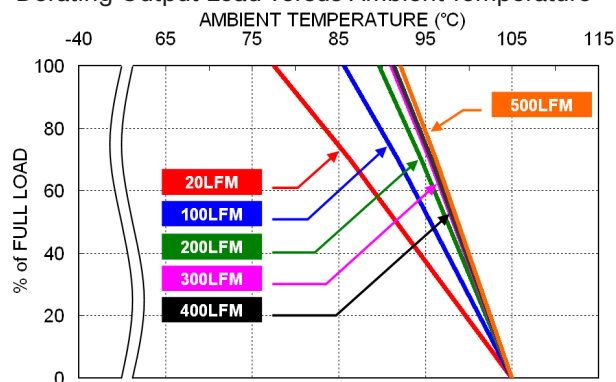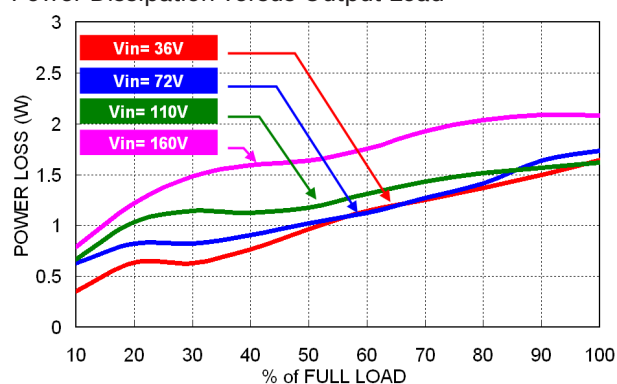
THN 15-7215WIR

Efficiency versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
Vin= 160V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
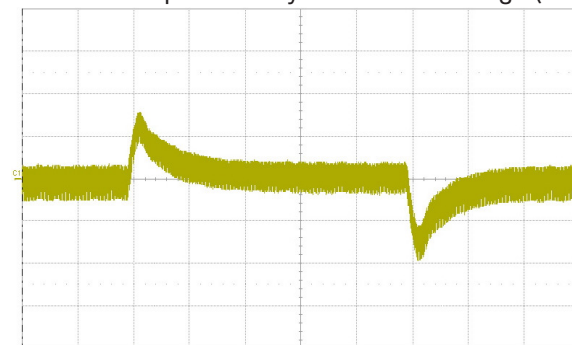Vin= 160V

Typical Output Ripple and Noise
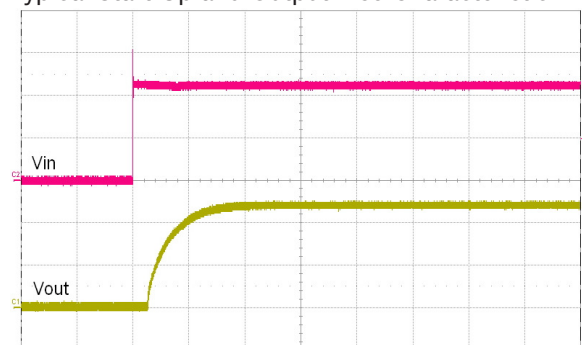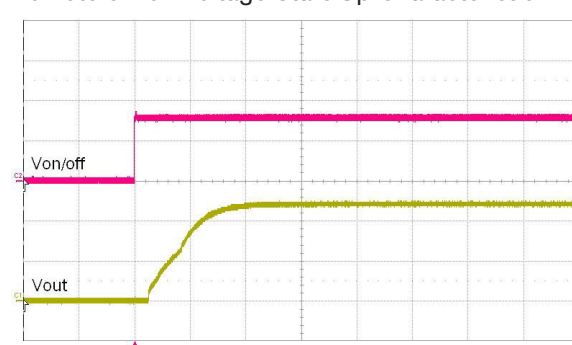

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 100 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin
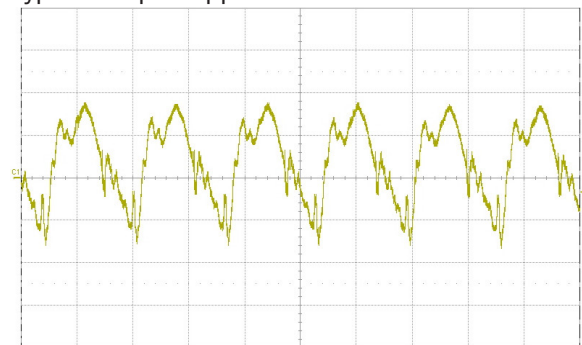
Vout

Vout: 10 V/Div   Vin: 50 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic
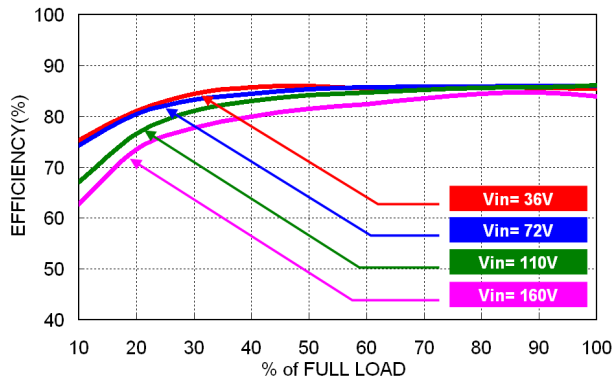

Von/off

Vout

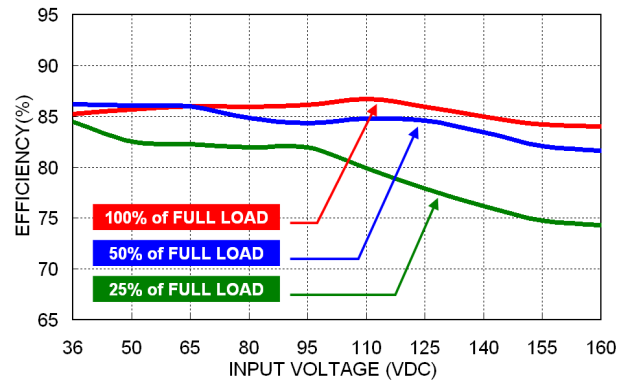Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
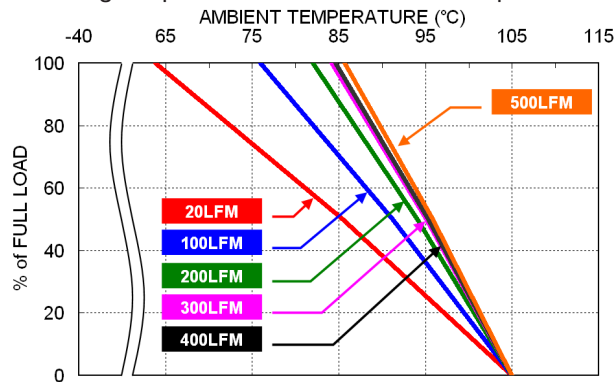
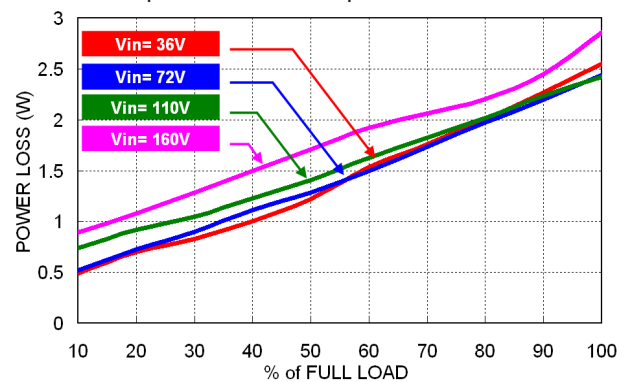## THN 15-7221WIR
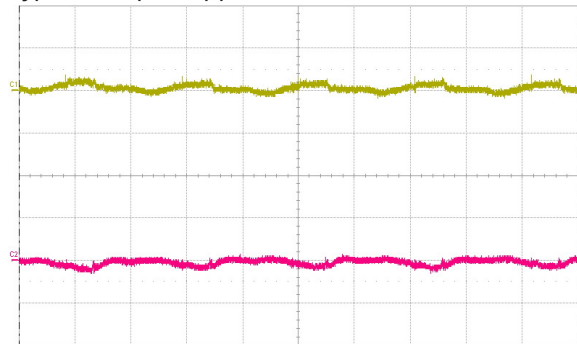
Efficiency versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
Vin= 160V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
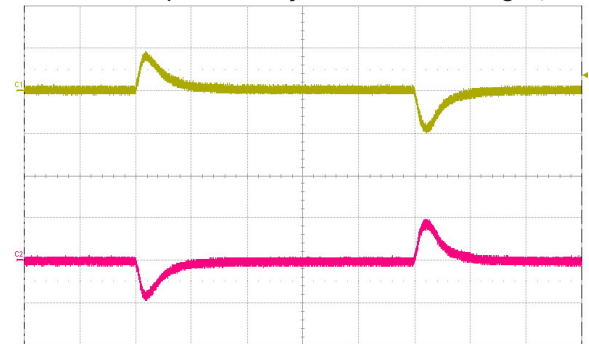Vin= 160V

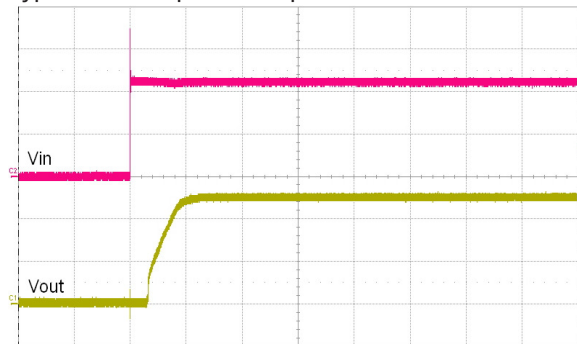### Typical Output Ripple and Noise

Y: 20 mV/Div   Y: 20 mV/Div   X: 20 μs/Div

Transient Response to Dynamic Load Change (25%)

Y: 20 mV/Div   Y: 20 mV/Div   X: 20 μs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 20 V/Div   Vin: 20 V/Div   X: 20 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off

Vout

Vout: 20 V/Div   Von/off: 20 V/Div X: 20 ms/Div

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

THN 15-7222WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 µs/Div
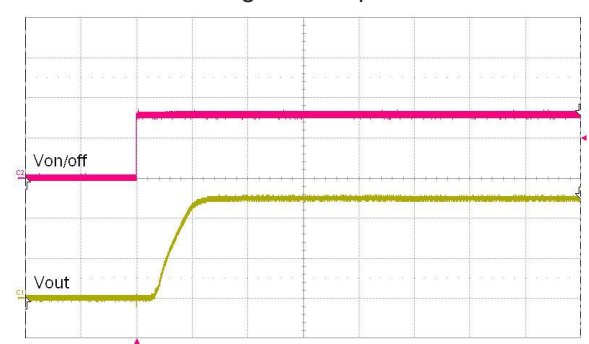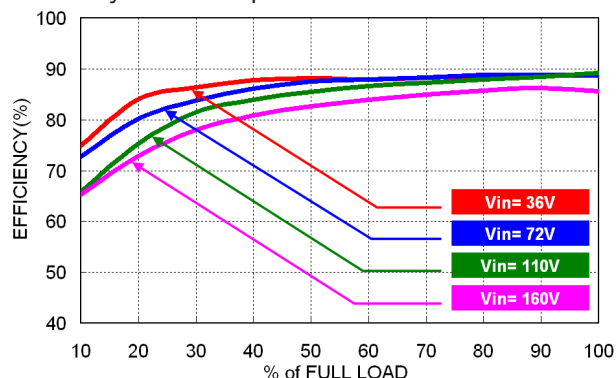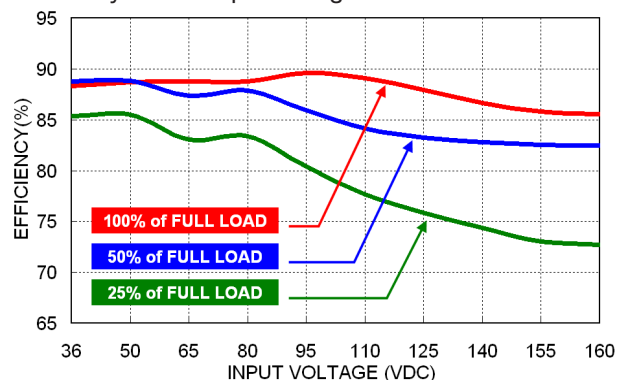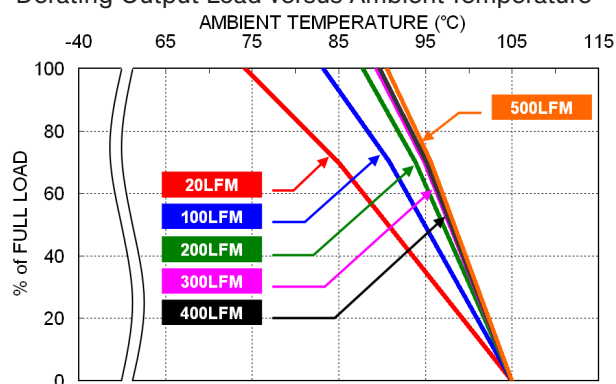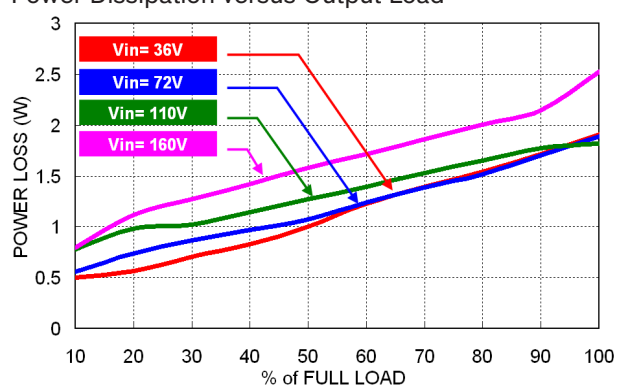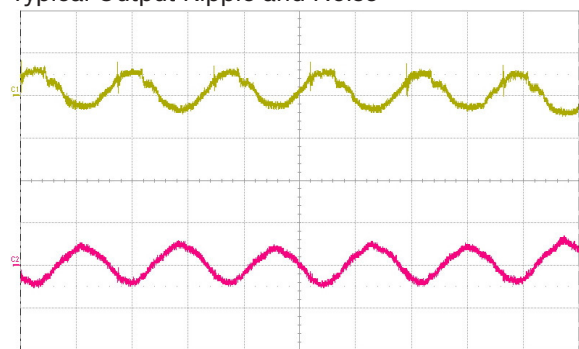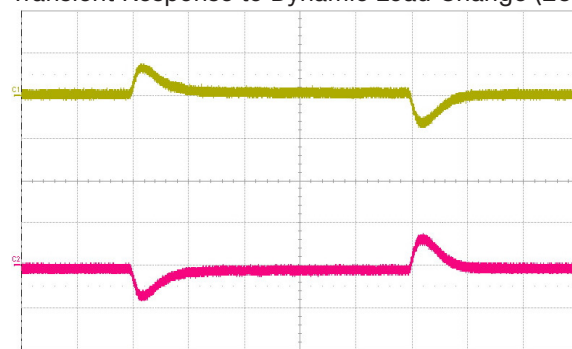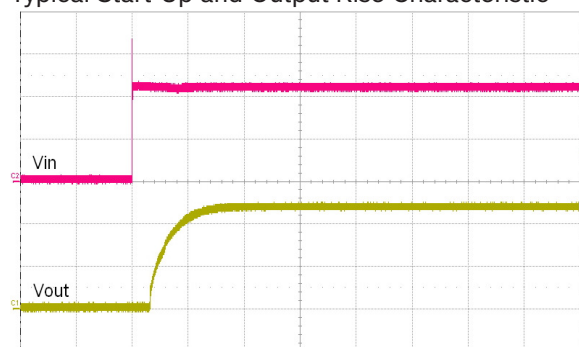
Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vout: 5 V/Div   Vin: 50 V/Div   X: 10 ms/Div

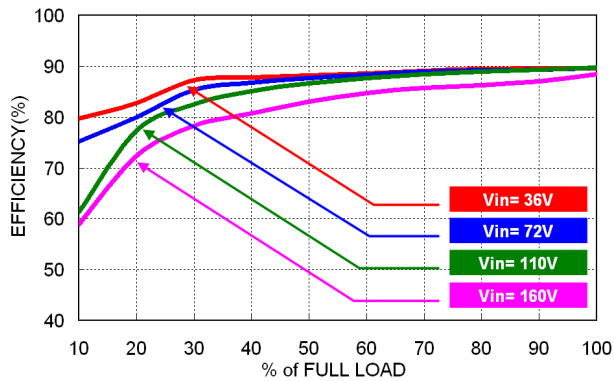#### Remote on/off Voltage Start-Up Characteristic

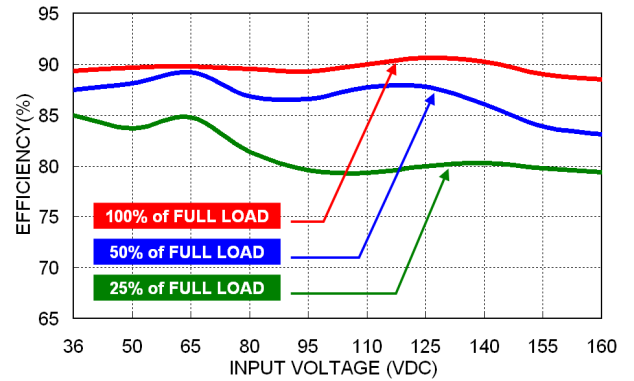Vout: 5 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
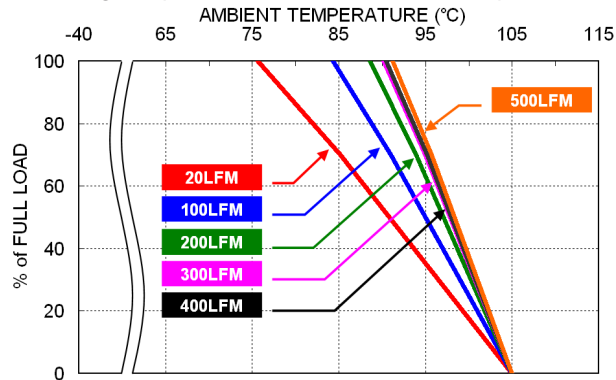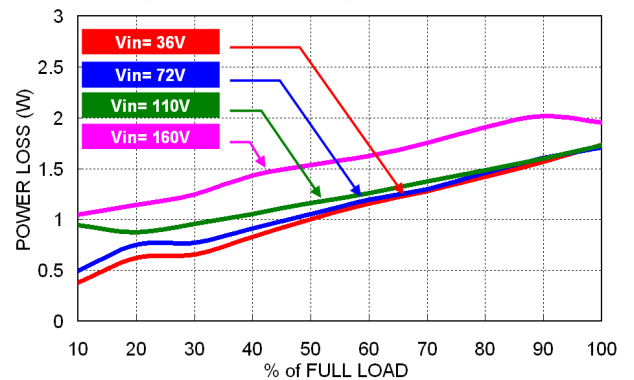
THN 15-7223WIR

Efficiency versus Output Load
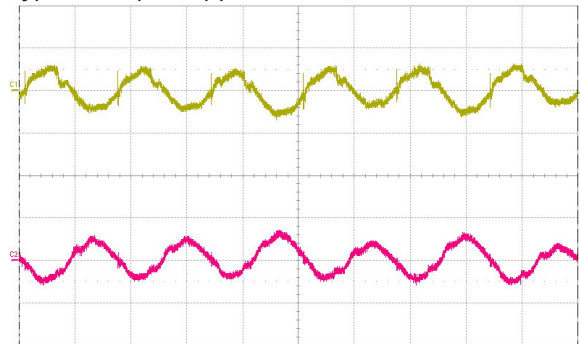

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

Power Dissipation versus Output Load
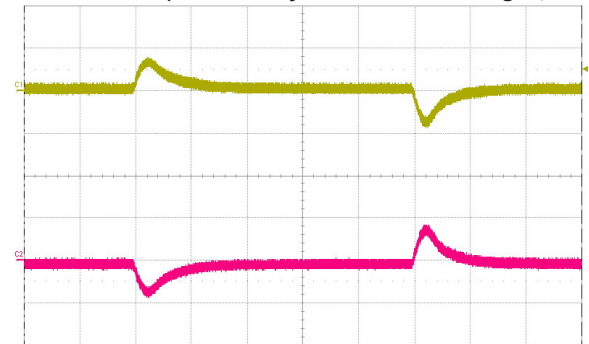

Typical Output Ripple and Noise

Y: 20 mV/Div   X: 2 μs/Div
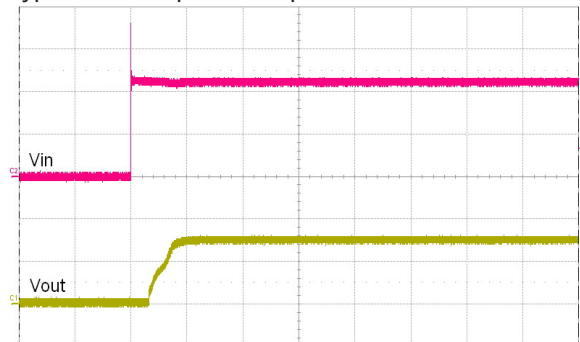
Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 μs/Div

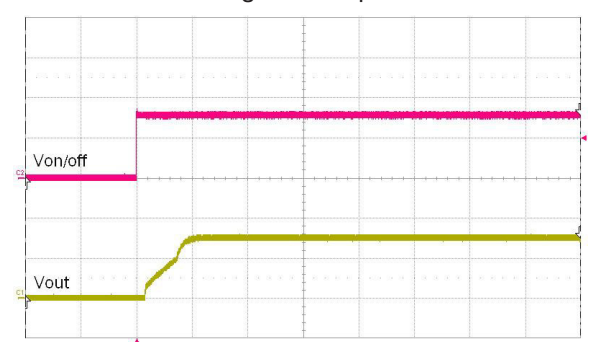### Typical Start-Up and Output Rise Characteristic

Vout: 10 V/Div   Vin: 50 V/Div   X: 10 ms/Div

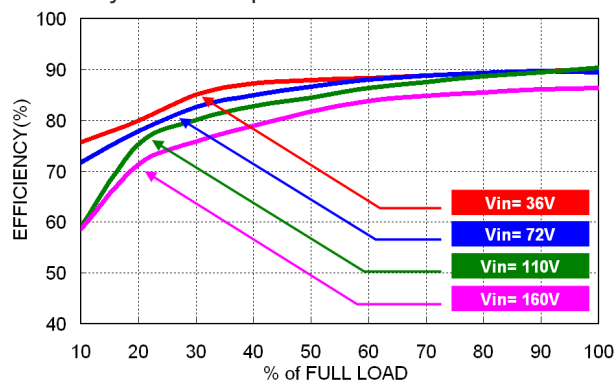### Remote on/off Voltage Start-Up Characteristic

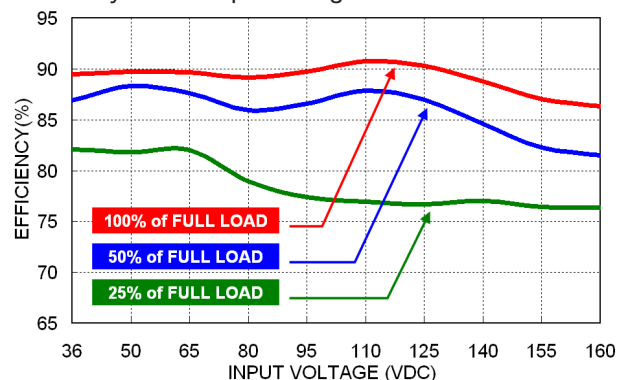Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
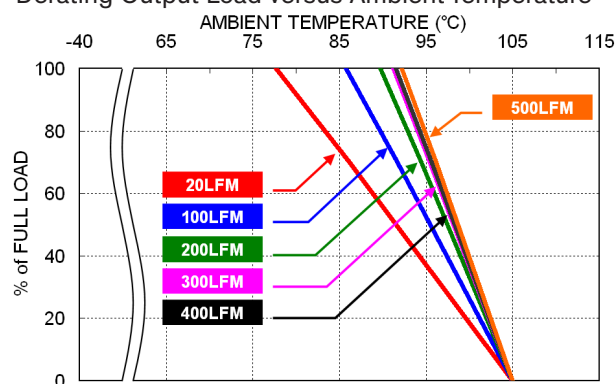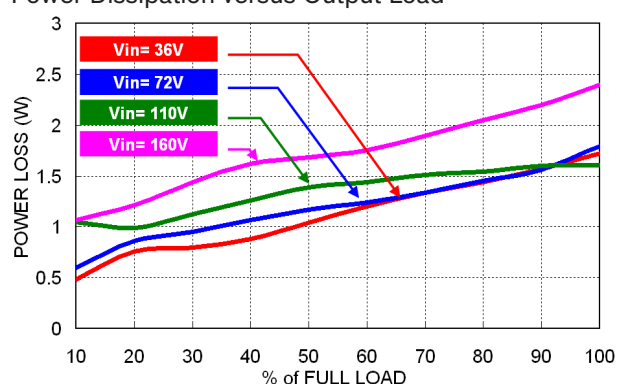
THN 15-7225WIR

Efficiency versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
Vin= 160V

Efficiency versus Input Voltage

100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

Derating Output Load versus Ambient Temperature

500LFM
20LFM
100LFM
200LFM
300LFM
400LFM

Power Dissipation versus Output Load

Vin= 36V
Vin= 72V
Vin= 110V
Vin= 160V

Typical Output Ripple and Noise
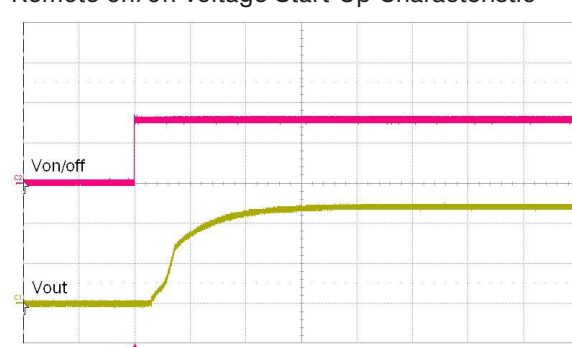

Y: 20 mV/Div   X: 2 µs/Div

Transient Response to Dynamic Load Change (25%)

Y: 200 mV/Div   X: 200 µs/Div

Typical Start-Up and Output Rise Characteristic

Vin

Vout

Vout: 10 V/Div   Vin: 50 V/Div   X: 10 ms/Div

Remote on/off Voltage Start-Up Characteristic

Von/off
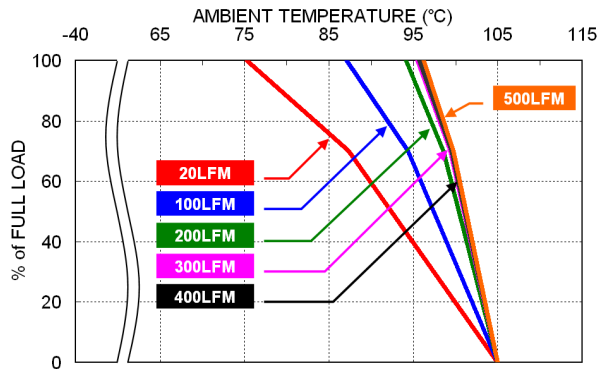
Vout

Vout: 10 V/Div   Von/off: 5 V/Div   X: 10 ms/Div

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

TRACO POWER
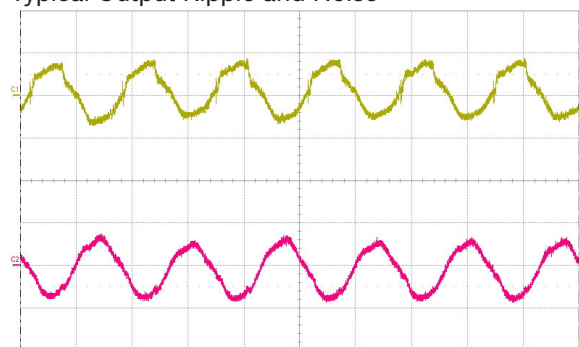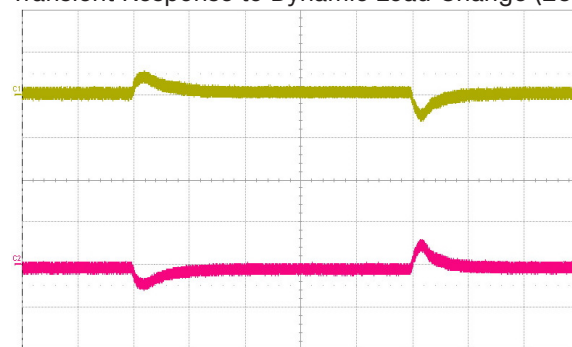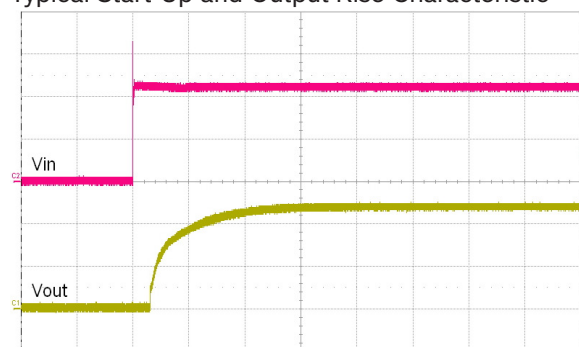
THN 15-241xWIR Derating output power versus Ambient temerperature with heatsink

THN 15-2410WIR with heatsink

THN 15-2411WIR with heatsink

THN 15-2412WIR with heatsink

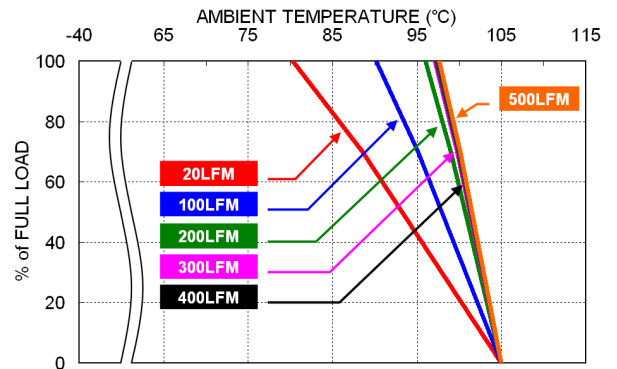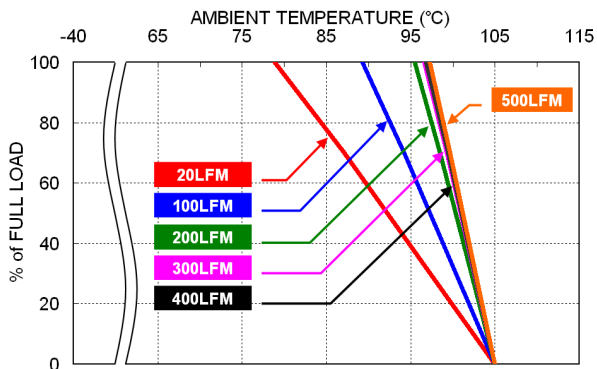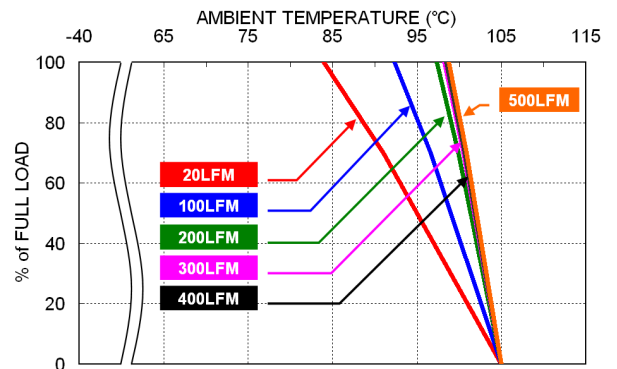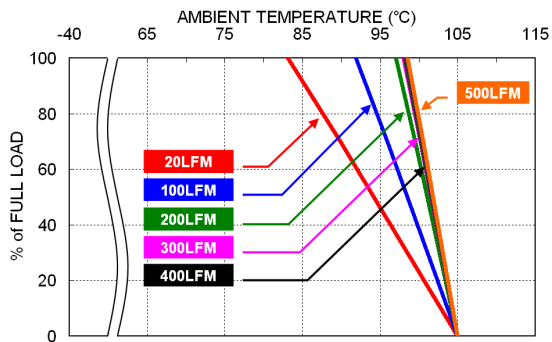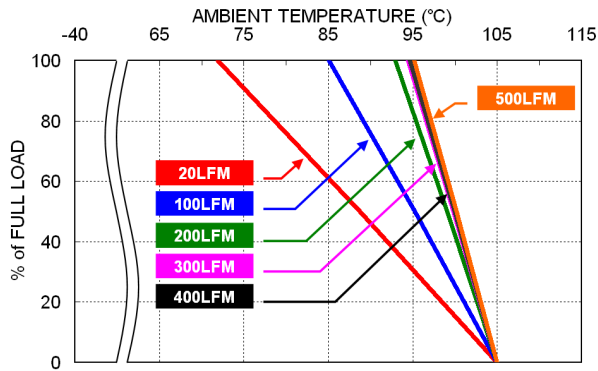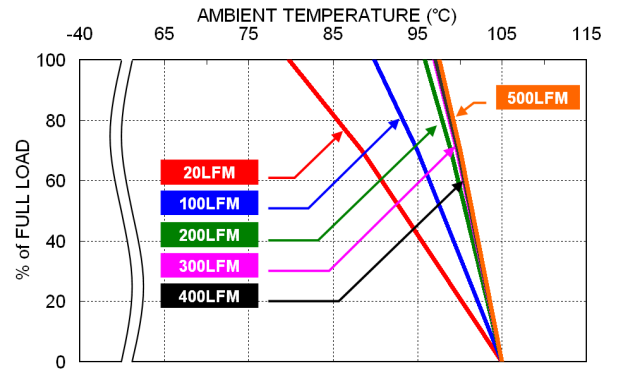THN 15-2413WIR with heatsink

THN 15-2415WIR with heatsink

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

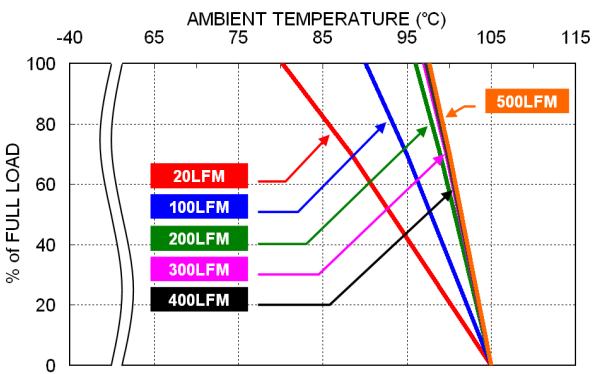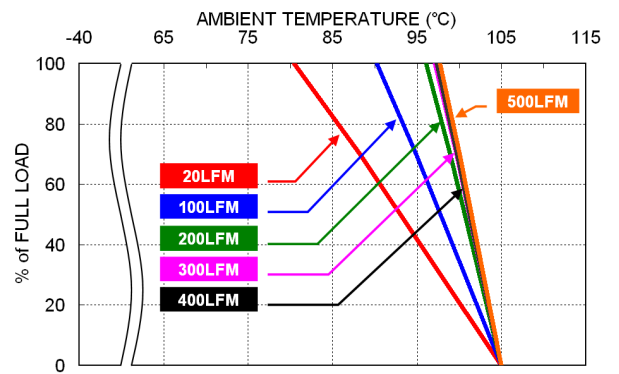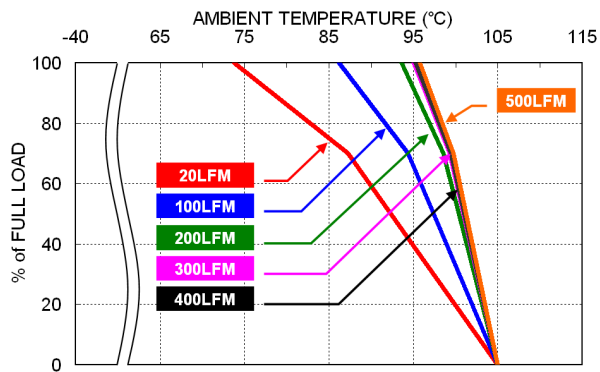## THN 15-242xWIR Derating output power versus Ambient temerperature with heatsink

THN 15-2421WIR with heatsink

THN 15-2422WIR with heatsink

THN 15-2423WIR with heatsink

THN 15-2425WIR with heatsink

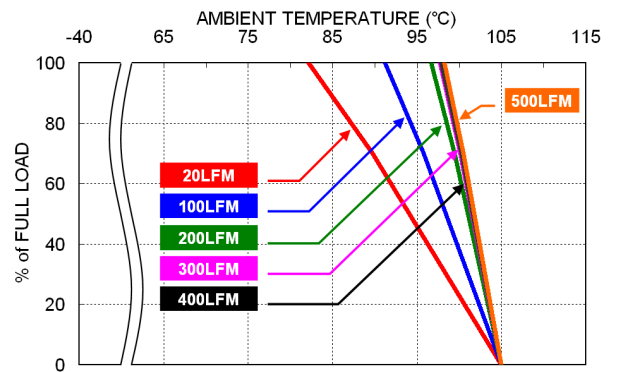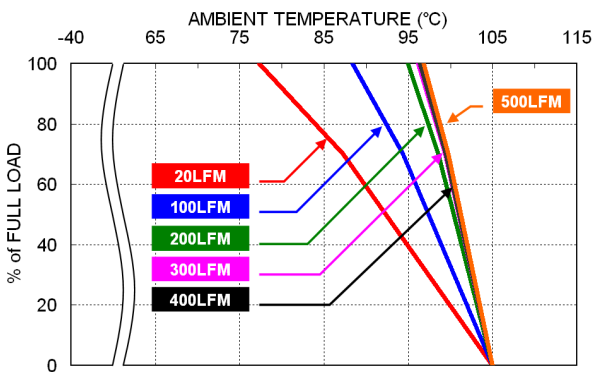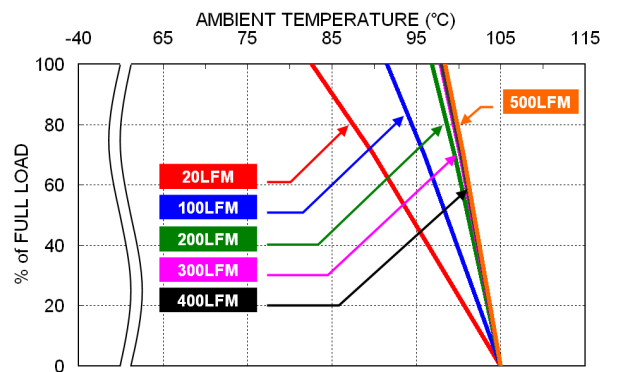All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

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THN 15-481xWIR Derating output power versus Ambient temerperature with heatsink

THN 15-4810WIR with heatsink

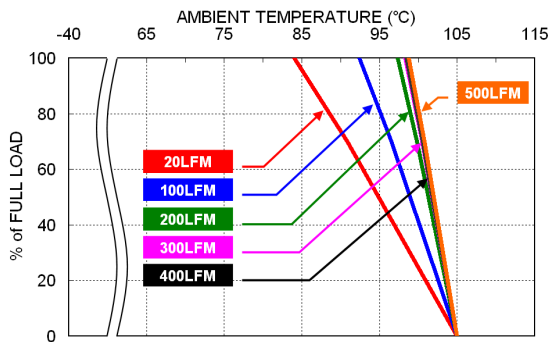### THN 15-4811WIR with heatsink

THN 15-4812WIR with heatsink
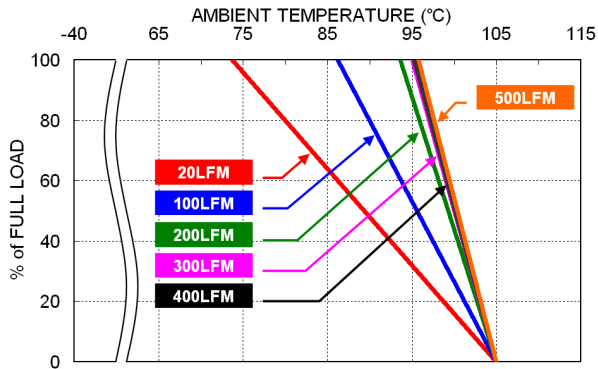

THN 15-4813WIR with heatsink

THN 15-4815WIR with heatsink

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

TRACO **POWER**

THN 15-482xWIR Derating output power versus Ambient temerperature with heatsink

THN 15-4821WIR with heatsink

THN 15-4822WIR with heatsink

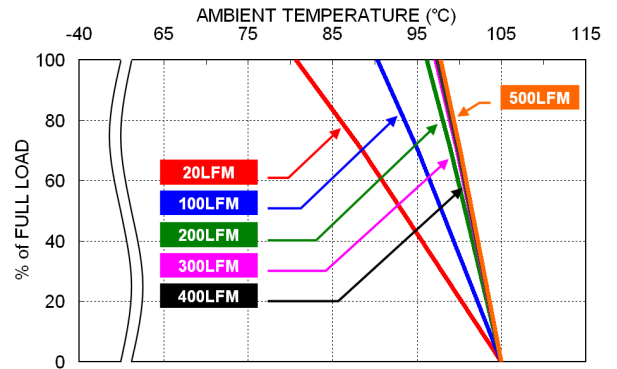### THN 15-4823WIR with heatsink

THN 15-4825WIR with heatsink

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

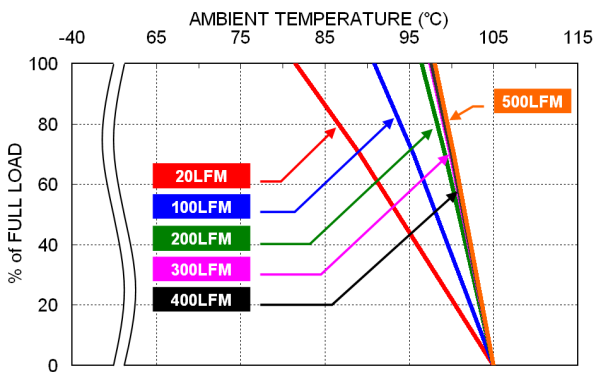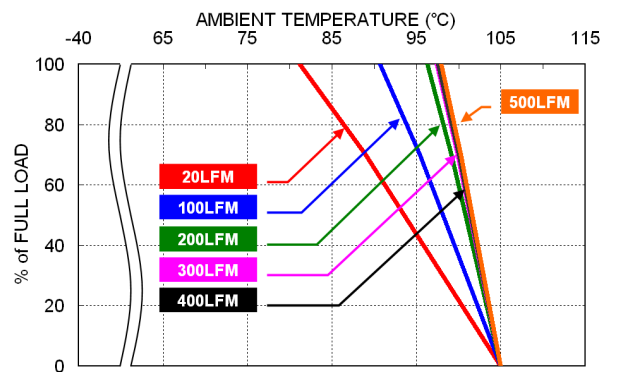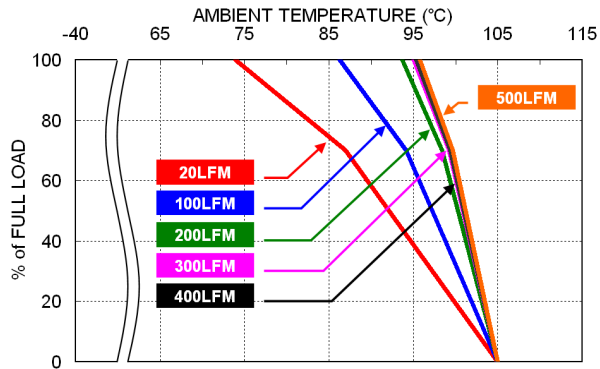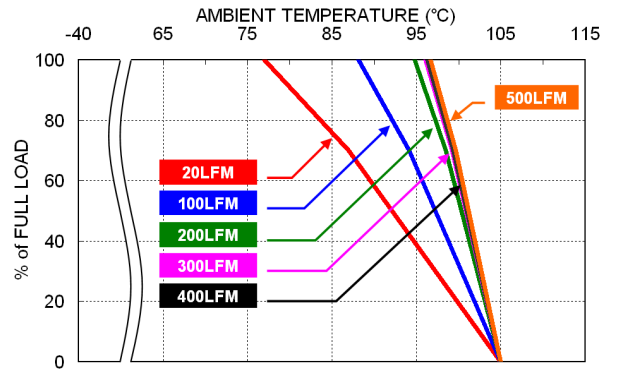## THN 15-721xWIR Derating output power versus Ambient temerperature with heatsink
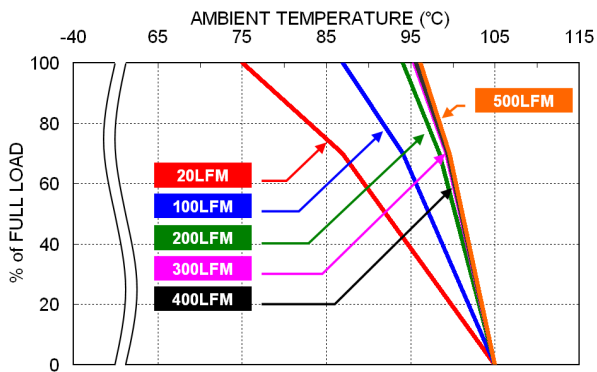
THN 15-7210WIR with heatsink

THN 15-7211WIR with heatsink

THN 15-7212WIR with heatsink

THN 15-7213WIR with heatsink

THN 15-7215WIR with heatsink

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

THN 15-722xWIR Derating output power versus Ambient temerperature with heatsink
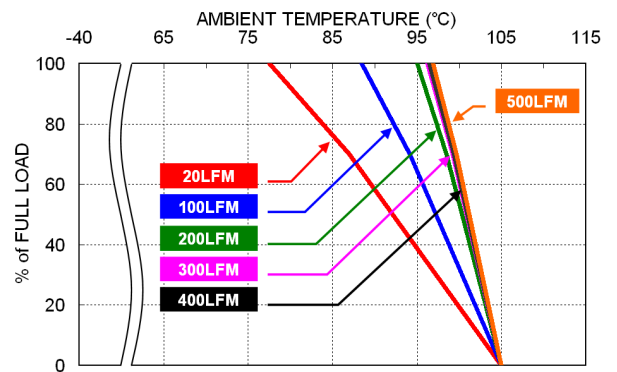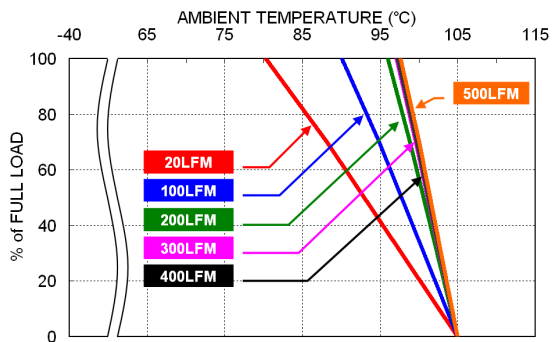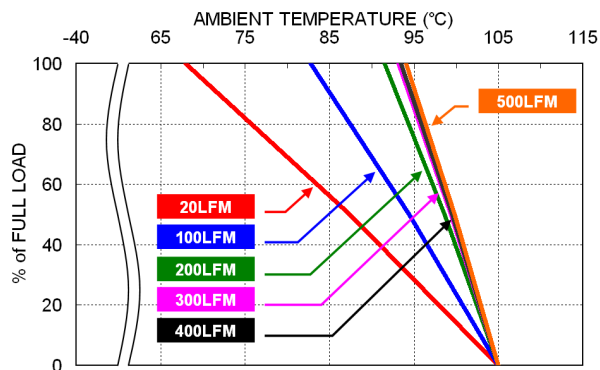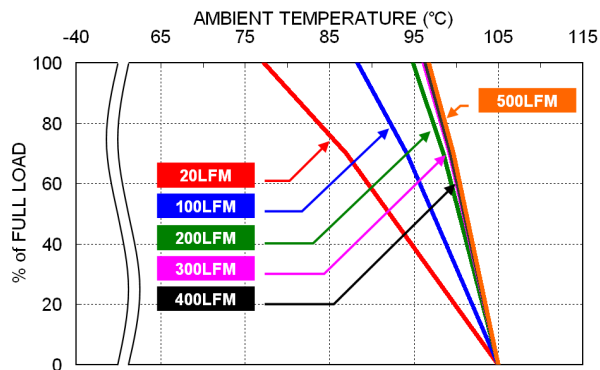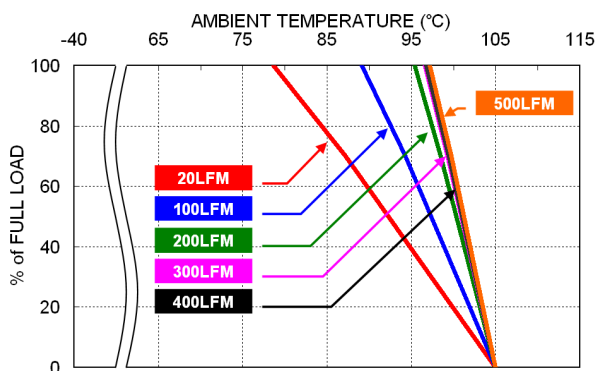
THN 15-7221WIR with heatsink

THN 15-7222WIR with heatsink

THN 15-7223WIR with heatsink

THN 15-7225WIR with heatsink

Specifications can be changed without notice.