TRACO POWER
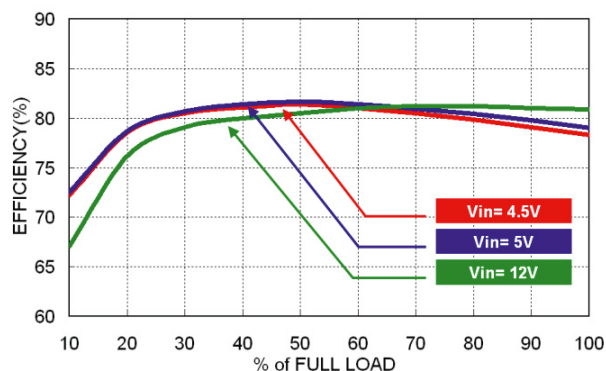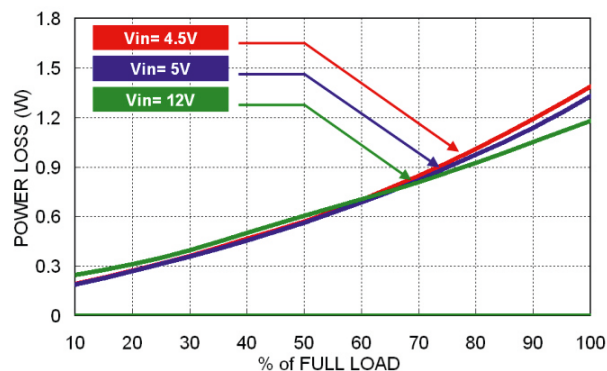
Characteristic Curves
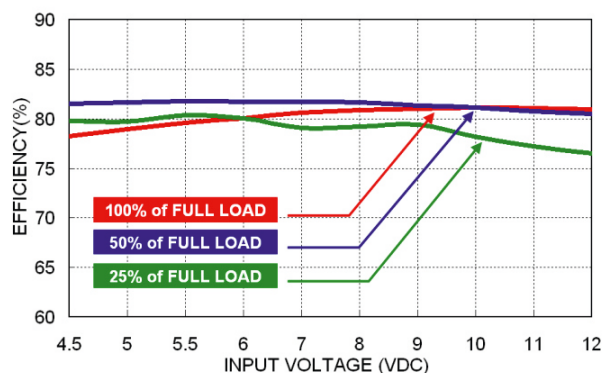
TVN 5-0910WI

Efficiency versus Output Load
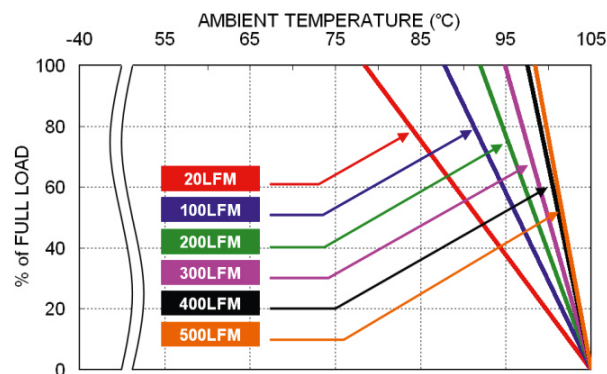

Power Dissipation versus Output Load

Efficiency versus Input Voltage
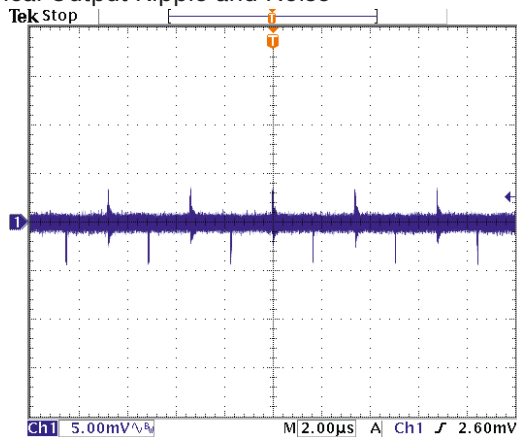

Derating Output Load versus Ambient Temperature
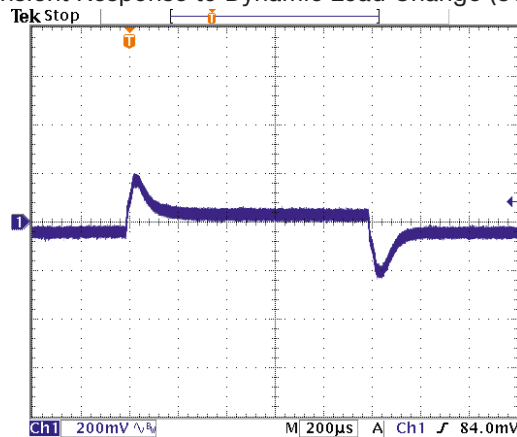

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
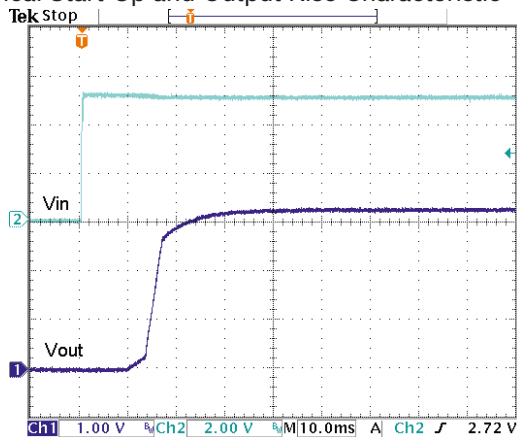
TVN 5-0910WI

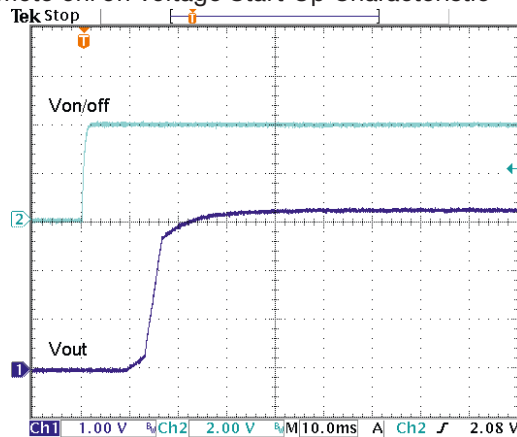### Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

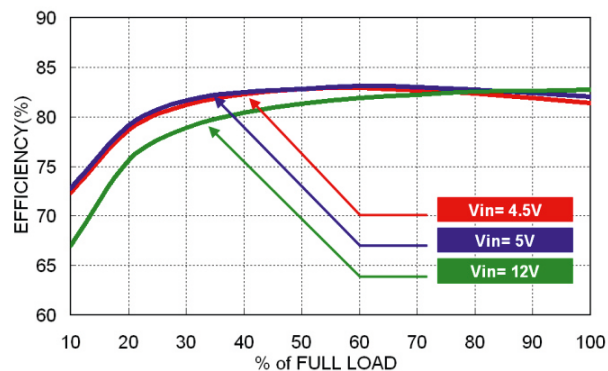### Typical Start-Up and Output Rise Characteristic

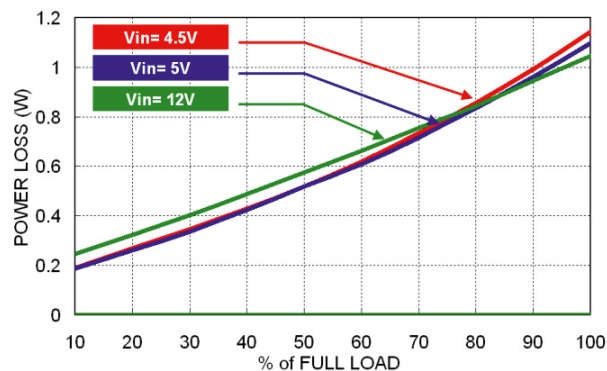### Remote on/off Voltage Start-Up Characteristic

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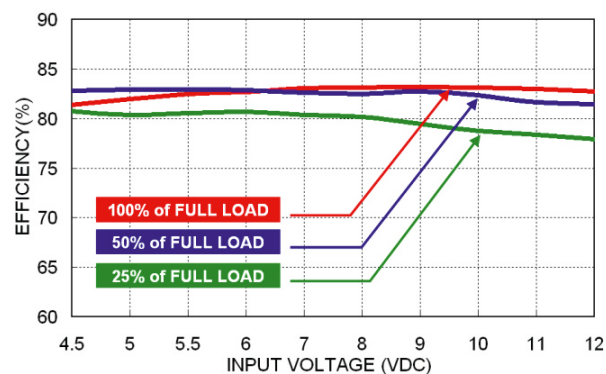
TRACO POWER

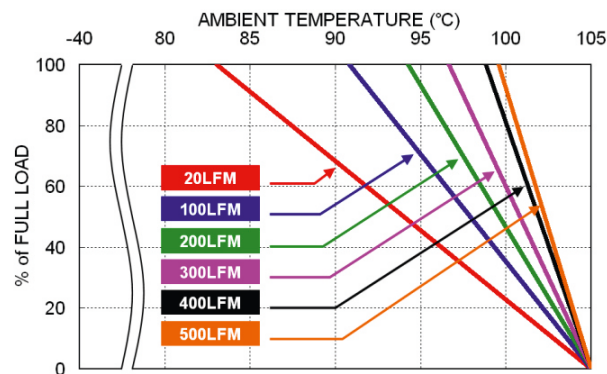## TVN 5-0911WI

Efficiency versus Output Load

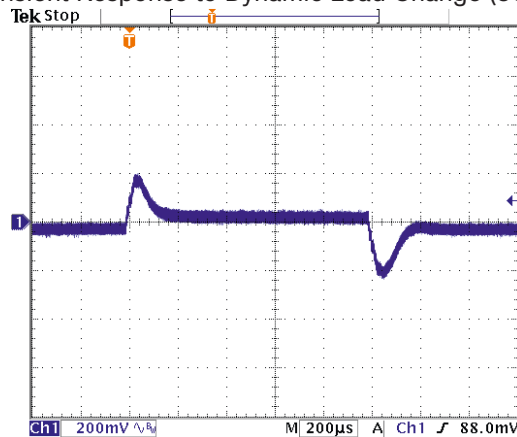### Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

TRACO POWER

TVN 5-0911WI

Typical Output Ripple and Noise

Tek Stop

Ch1 5.00mV M 2.00µs A Ch1 2.60mV

Transient Response to Dynamic Load Change (50%)

Tek Stop

Ch1 200mV M 200µs A Ch1 88.0mV

Typical Start-Up and Output Rise Characteristic

Tek Stop

Vin

Vout

Ch1 2.00 V Ch2 2.00 V M 10.0ms A Ch2 2.72 V

Remote on/off Voltage Start-Up Characteristic

Tek Stop

Von/off

Vout

Ch1 2.00 V Ch2 2.00 V M 10.0ms A Ch2 2.08 V

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

TVN 5-0912WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
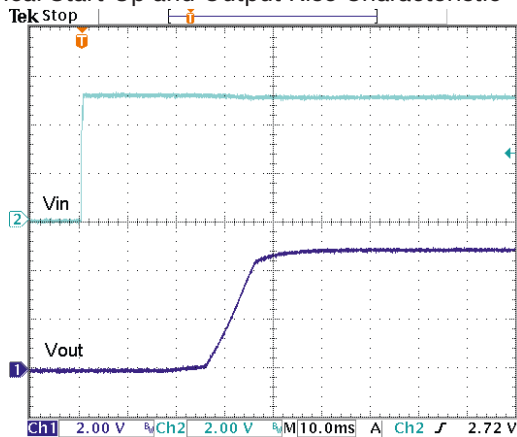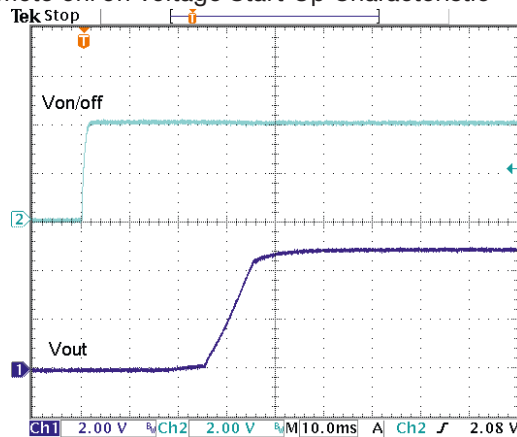
TVN 5-0912WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)
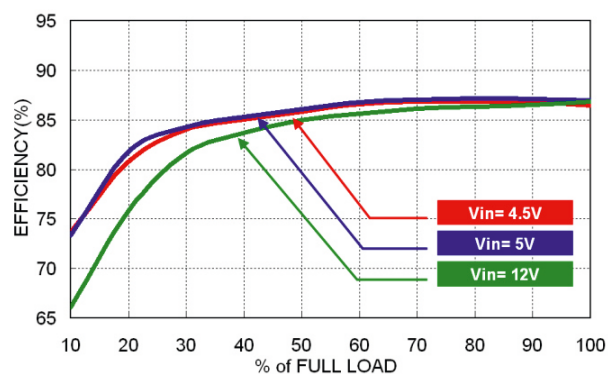

Typical Start-Up and Output Rise Characteristic

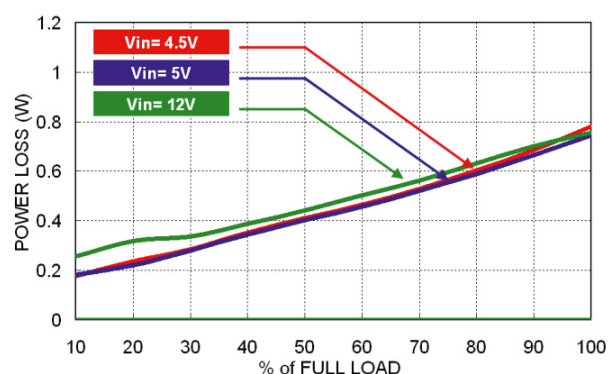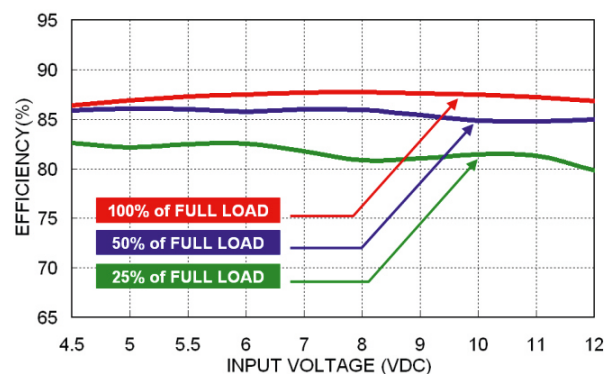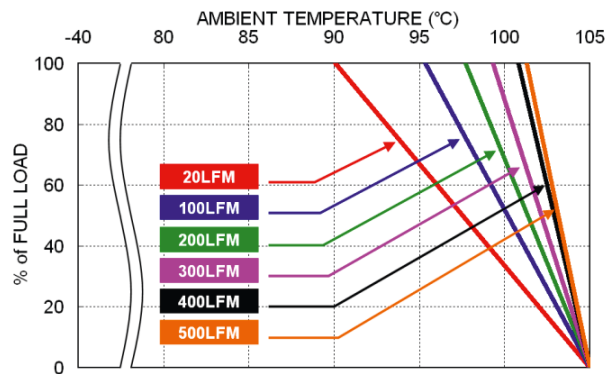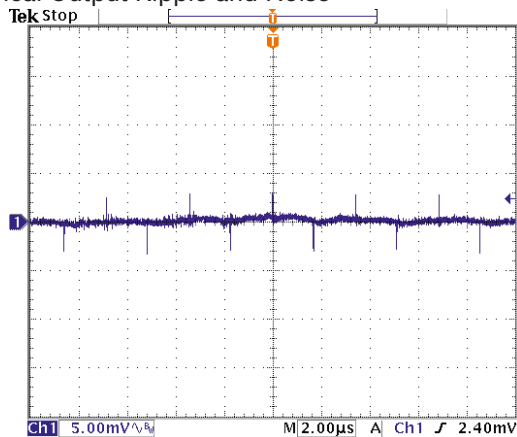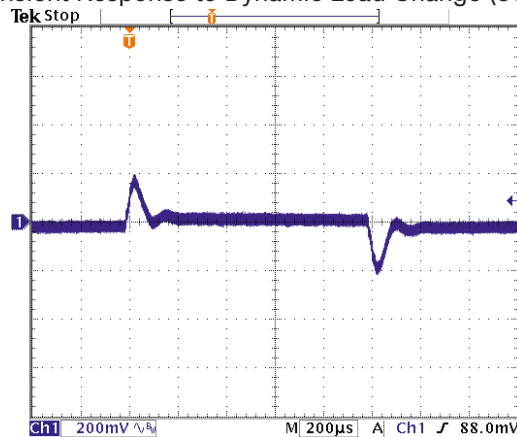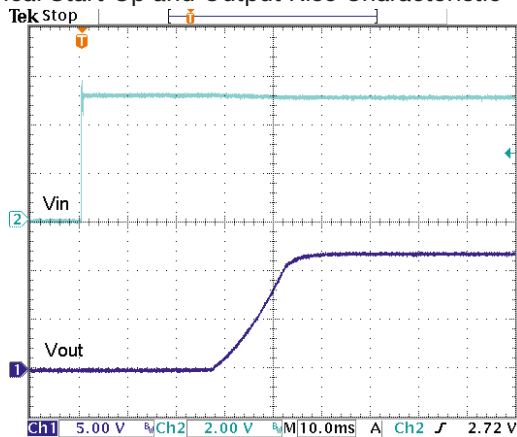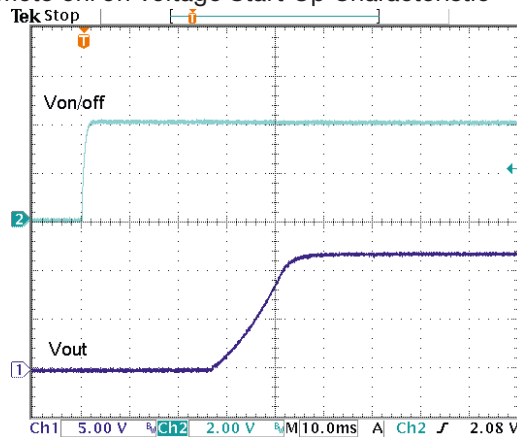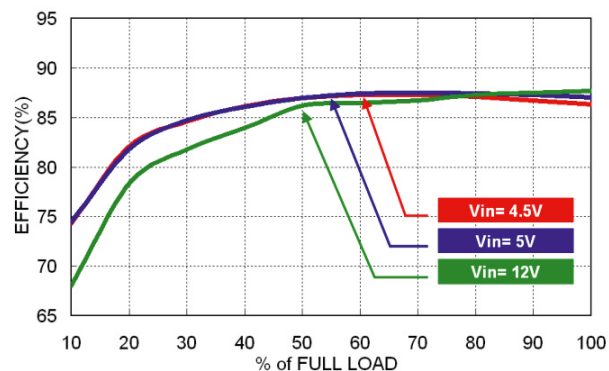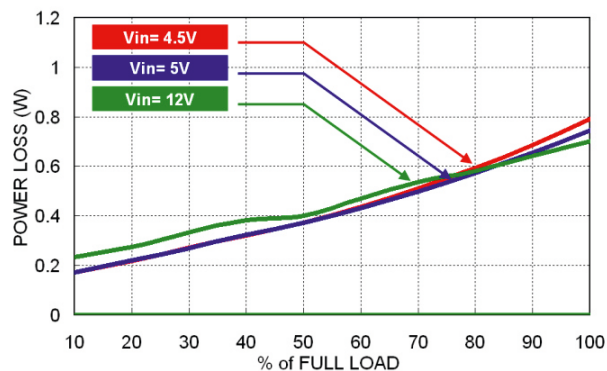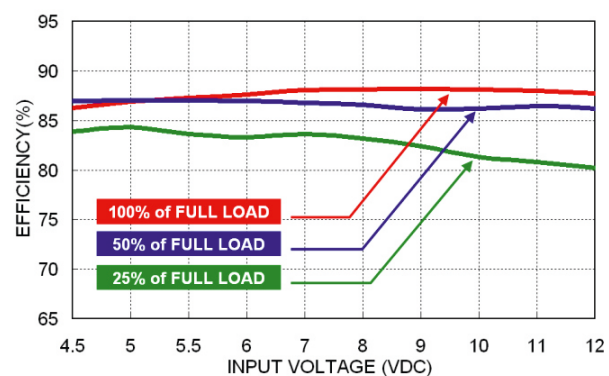Remote on/off Voltage Start-Up Characteristic

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

TRACO POWER

TVN 5-0913WI
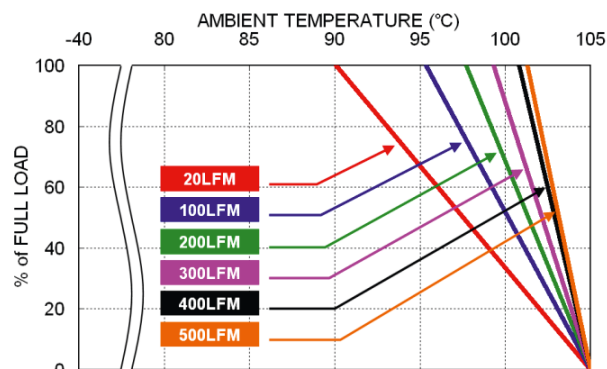
Efficiency versus Output Load

Power Dissipation versus Output Load
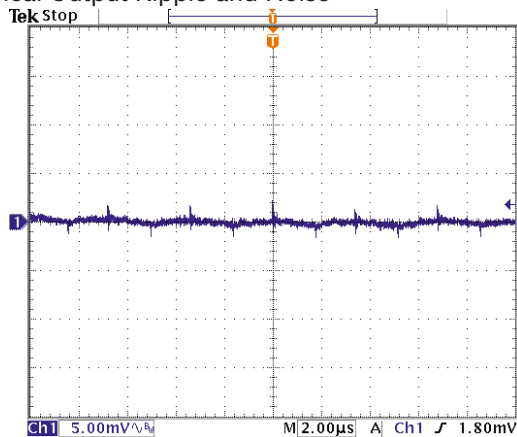

Efficiency versus Input Voltage

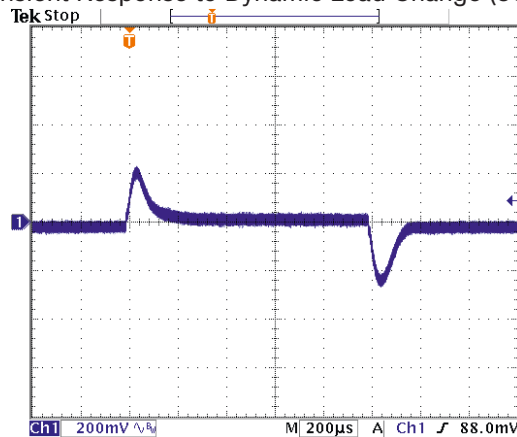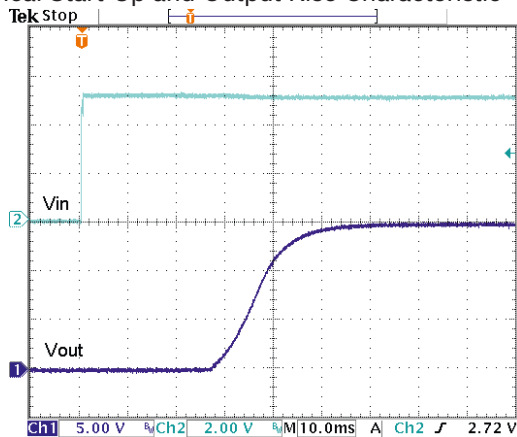### Derating Output Load versus Ambient Temperature

TVN 5-0913WI

Typical Output Ripple and Noise

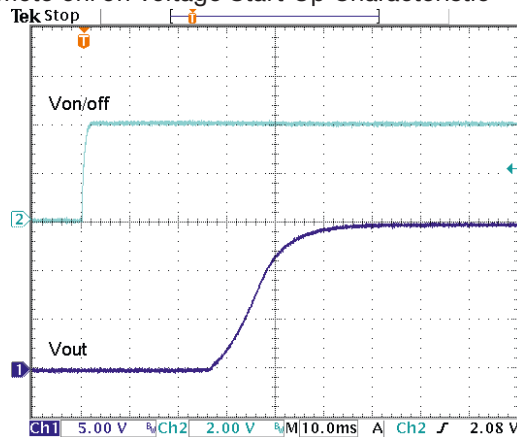
Transient Response to Dynamic Load Change (50%)
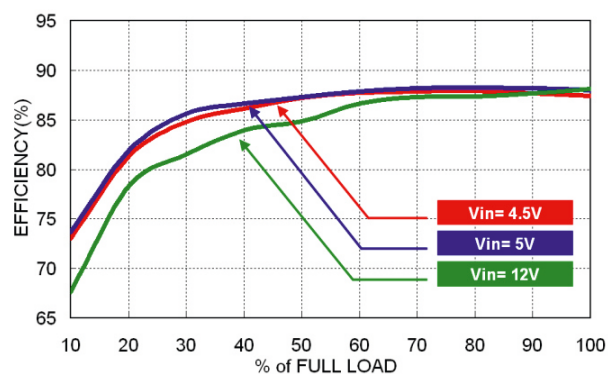

Typical Start-Up and Output Rise Characteristic
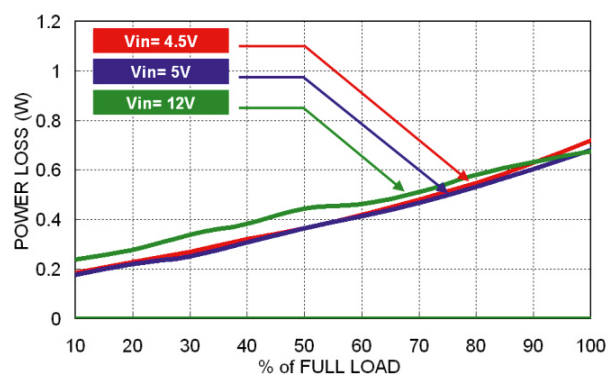

Remote on/off Voltage Start-Up Characteristic

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

TVN 5-0915WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

TVN 5-0915WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic
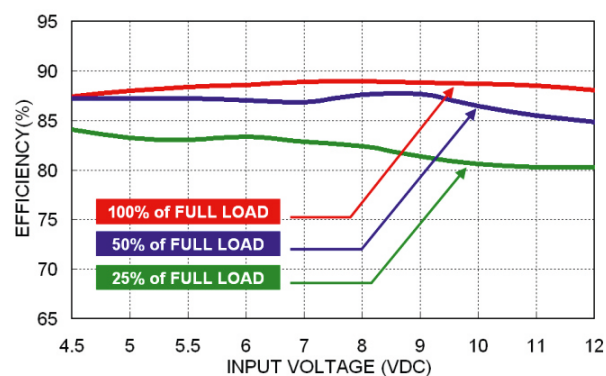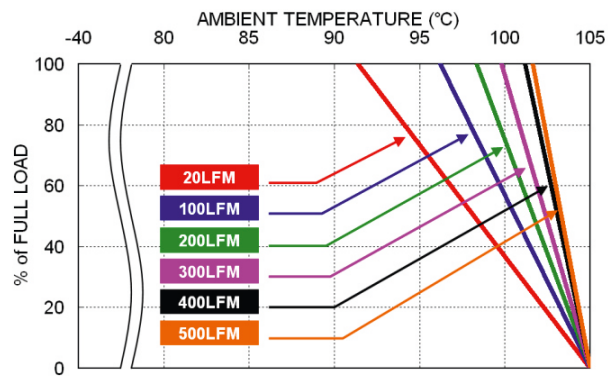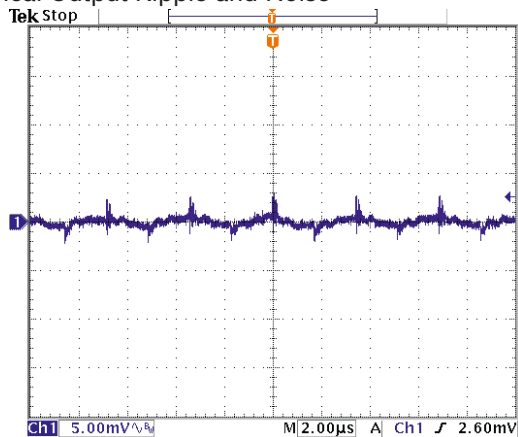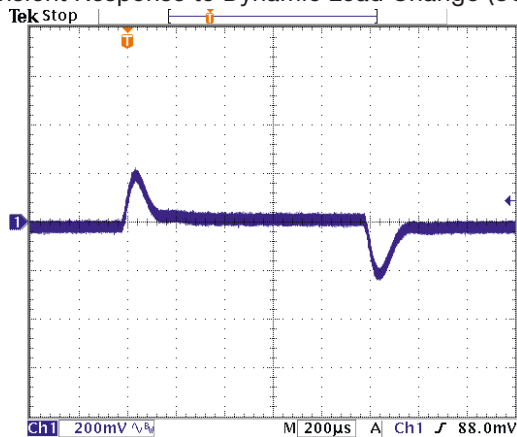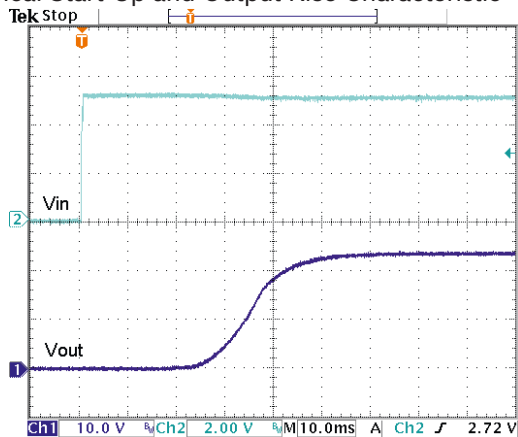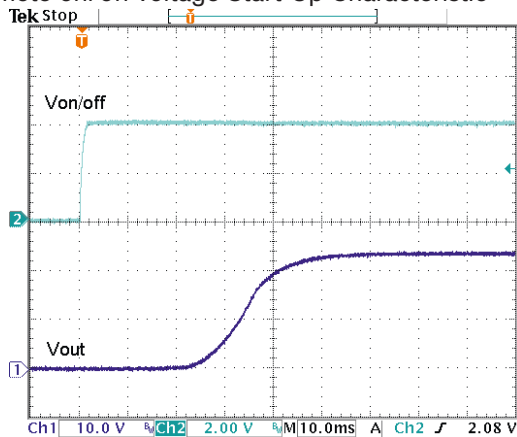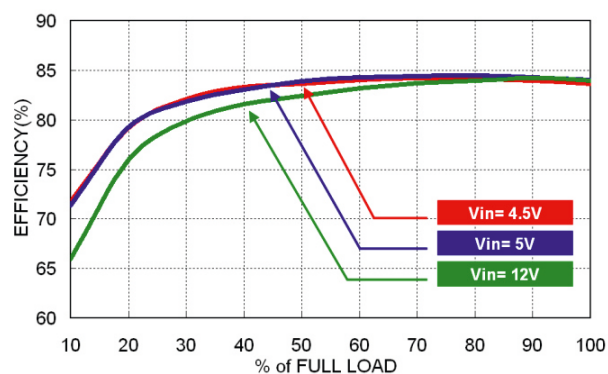

Remote on/off Voltage Start-Up Characteristic

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

TRACO POWER

TVN 5-0921WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

TVN 5-0921WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic
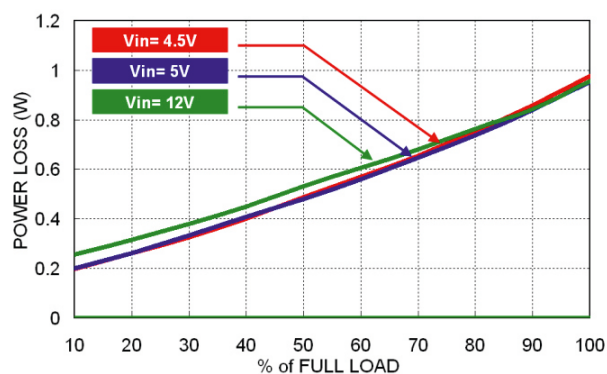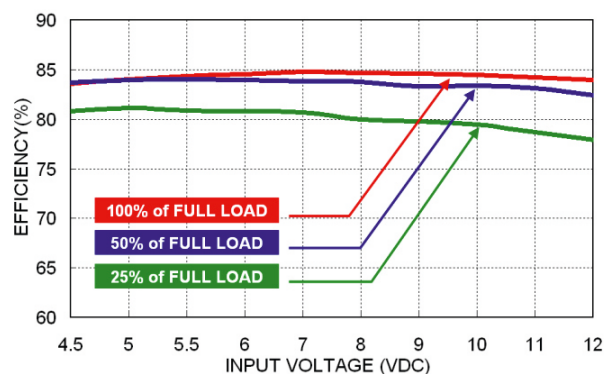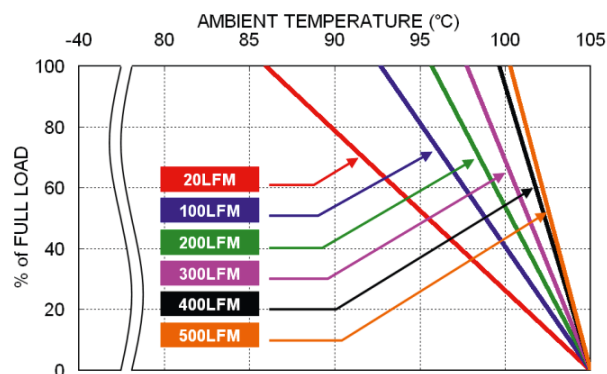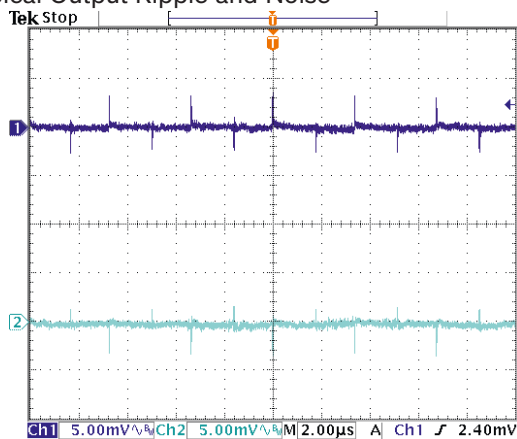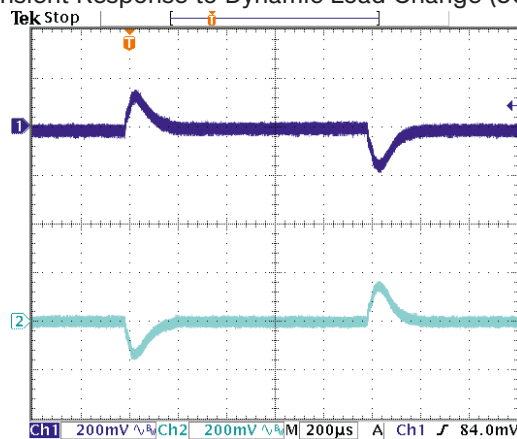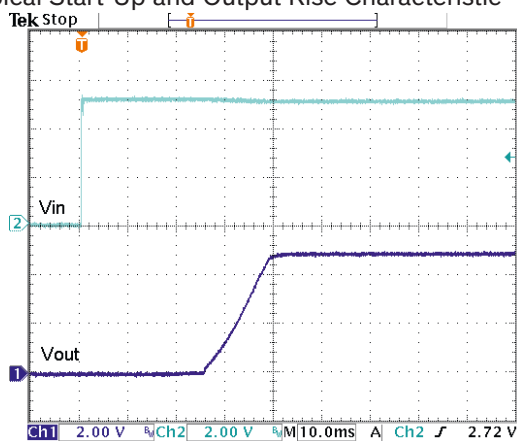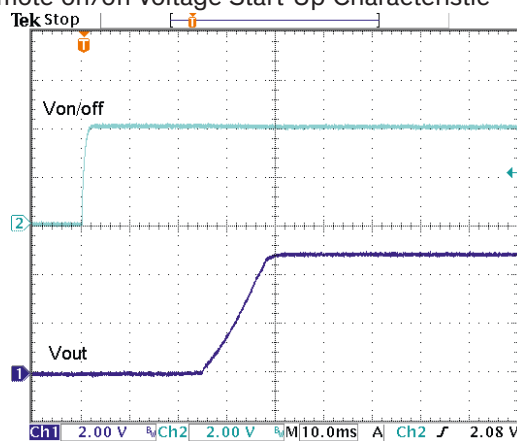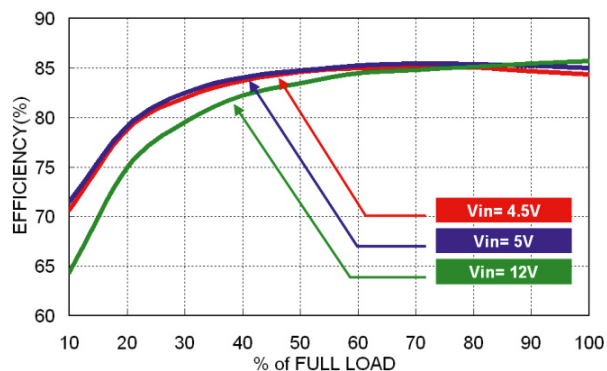
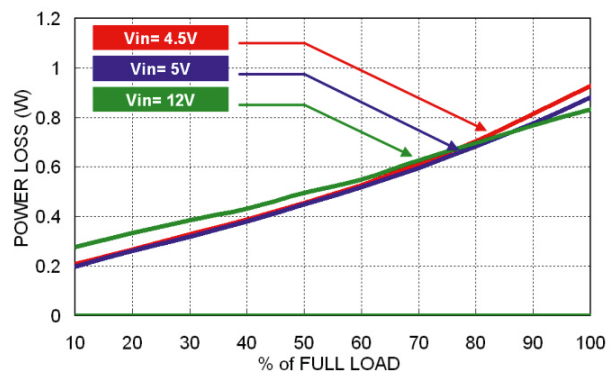Remote on/off Voltage Start-Up Characteristic
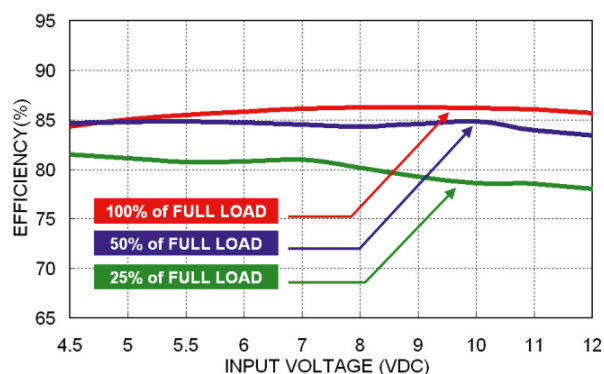
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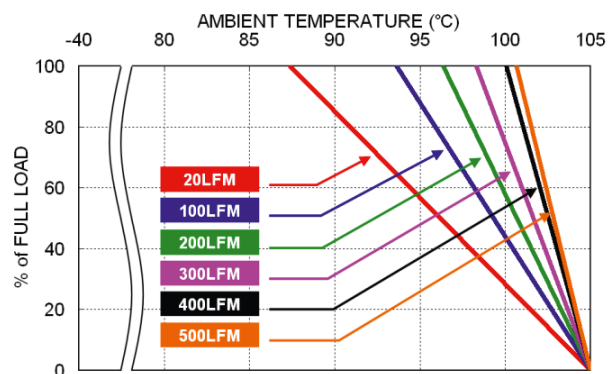## TVN 5-0922WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

TVN 5-0922WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

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

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TVN 5-0923WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
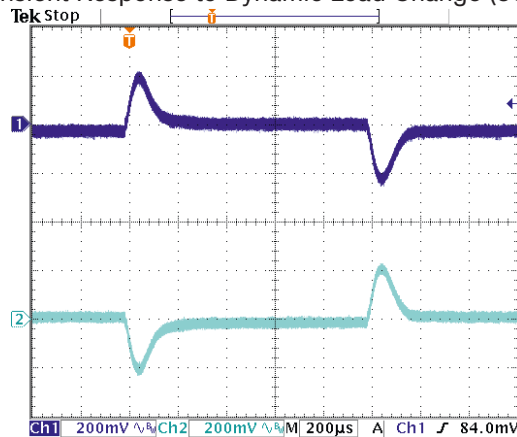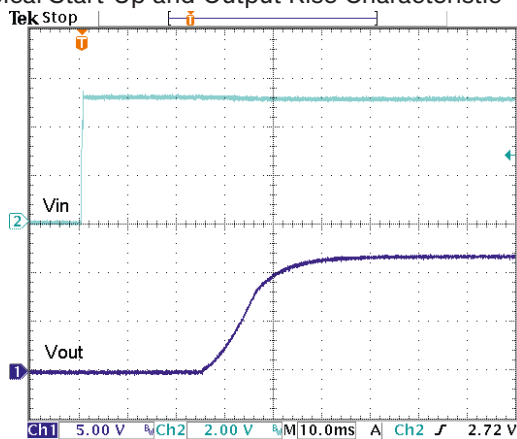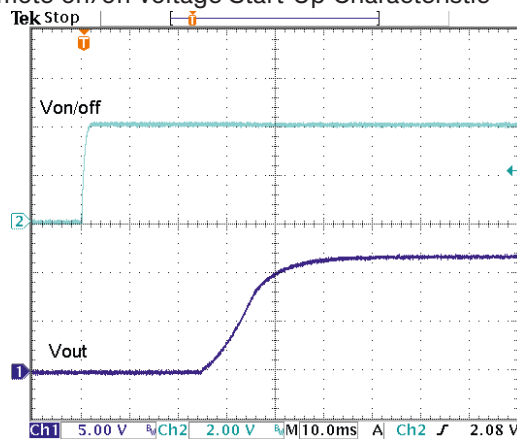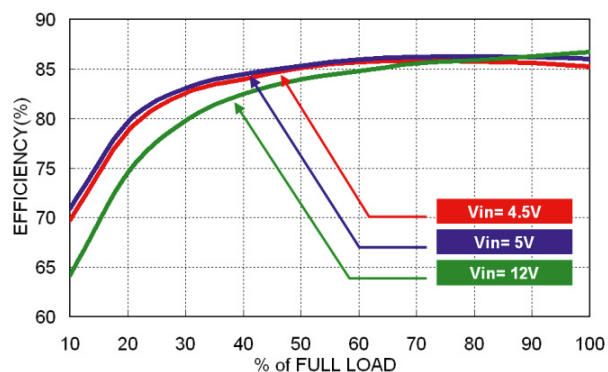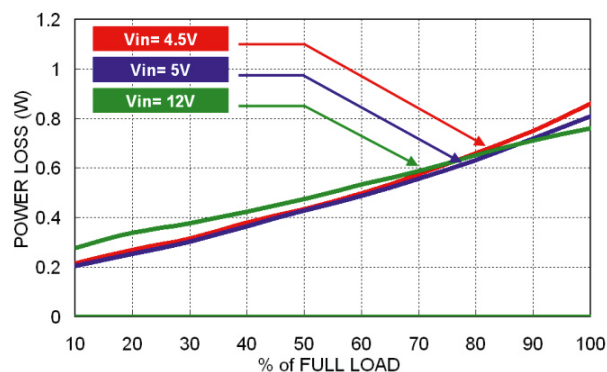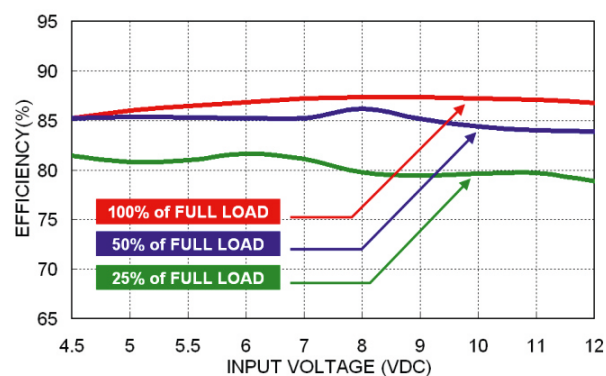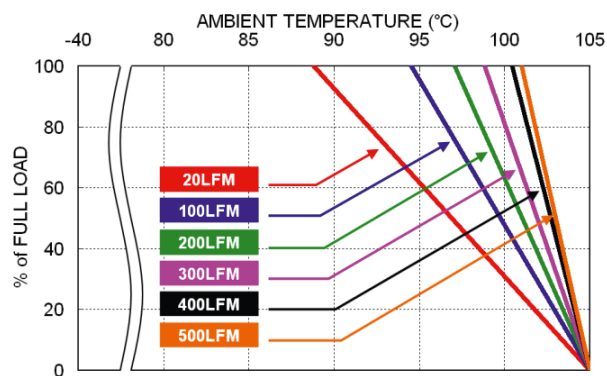

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

TVN 5-0923WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

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

TVN 5-0925WI

Efficiency versus Output Load

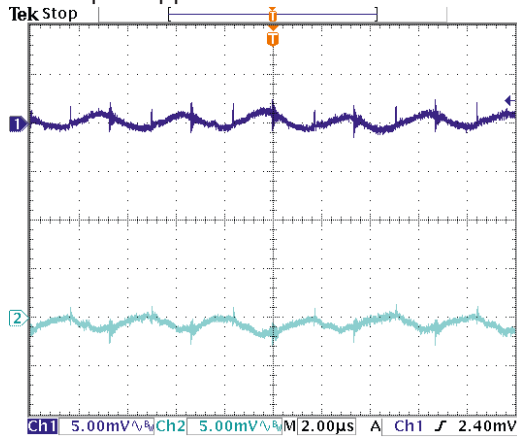Power Dissipation versus Output Load

Efficiency versus Input Voltage
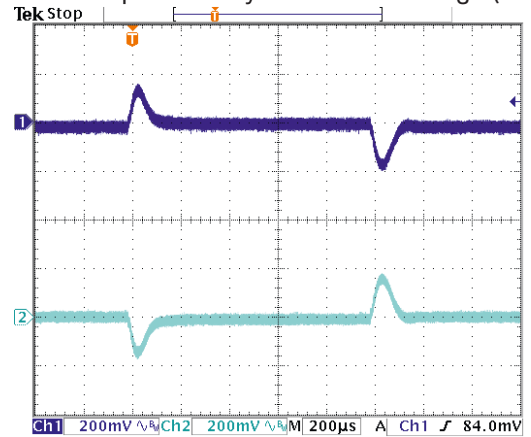
Derating Output Load versus Ambient Temperature
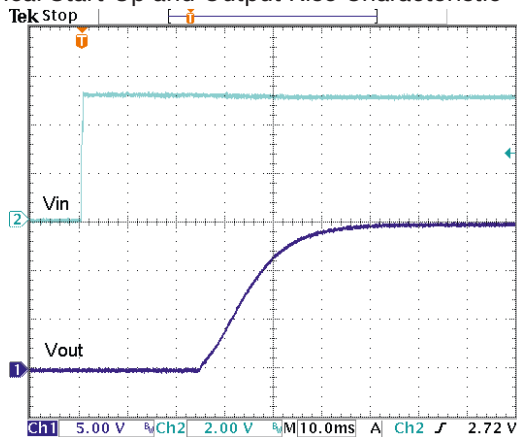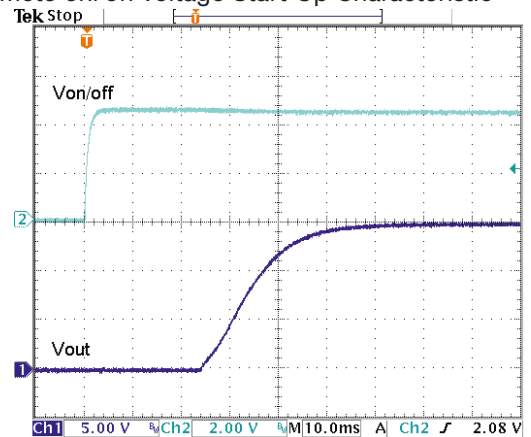
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TVN 5-0925WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)
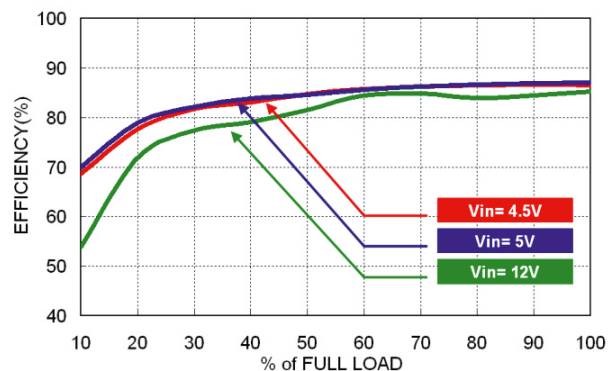

Typical Start-Up and Output Rise Characteristic

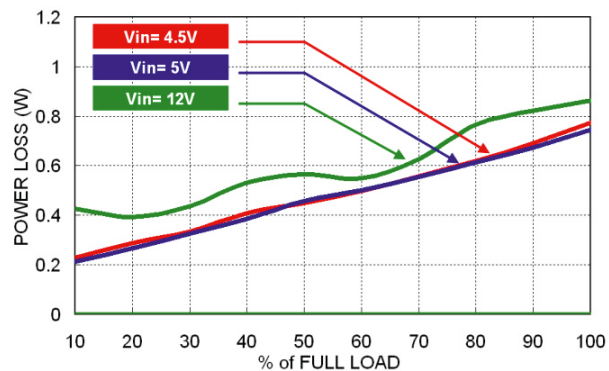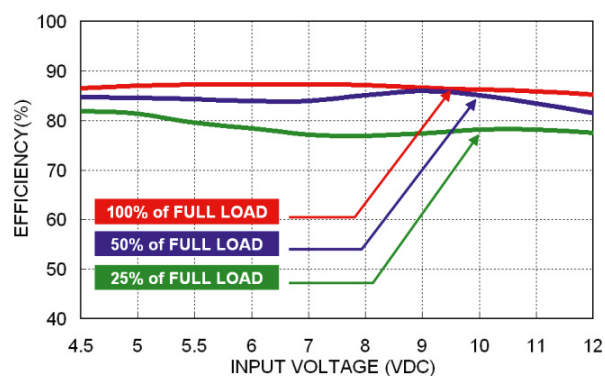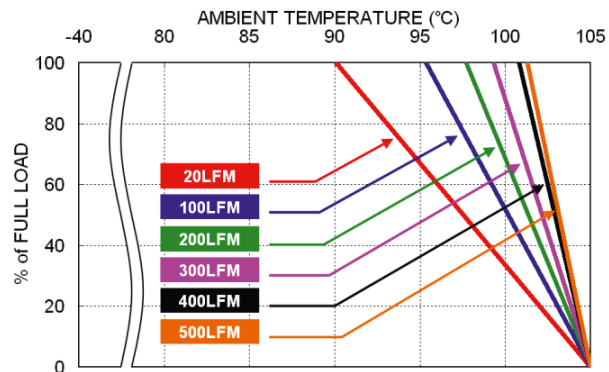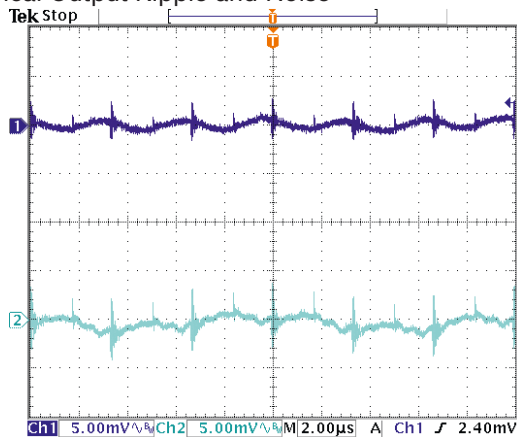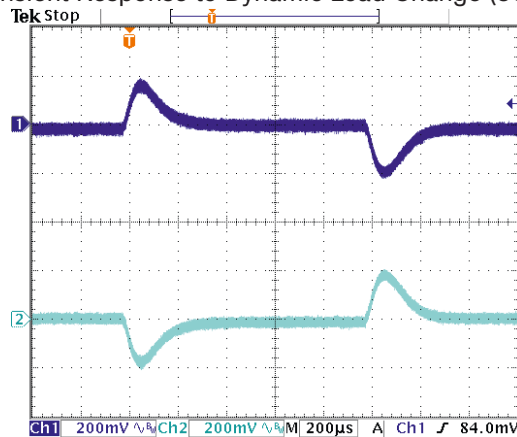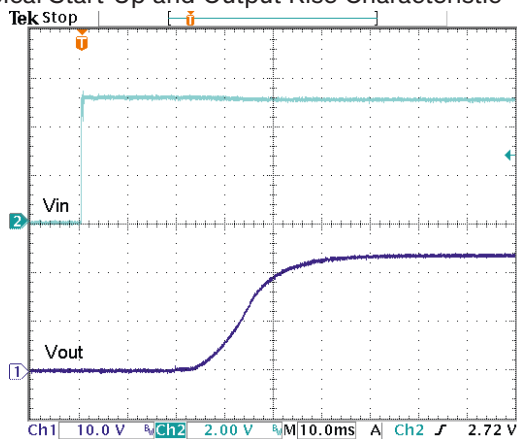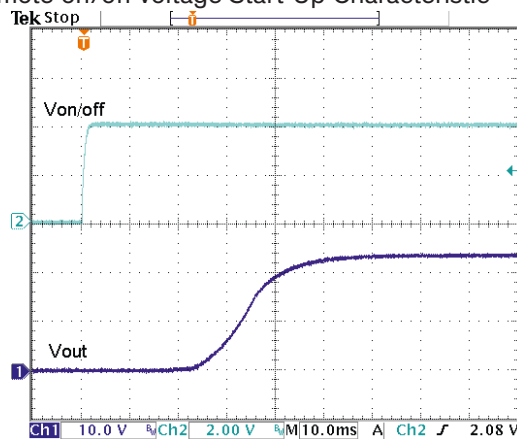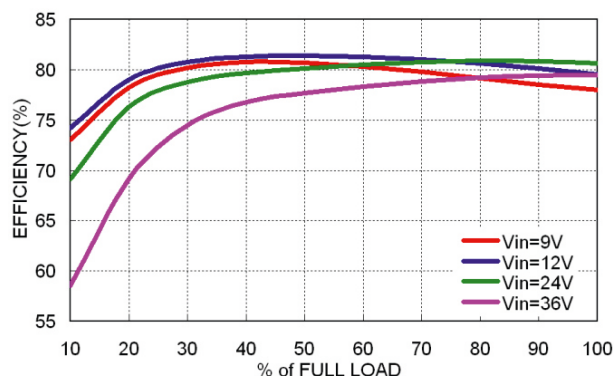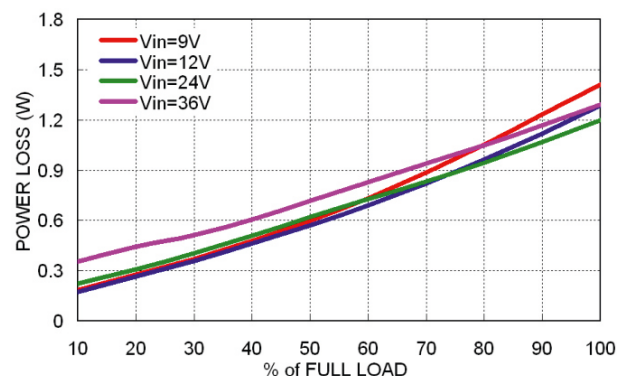Remote on/off Voltage Start-Up Characteristic

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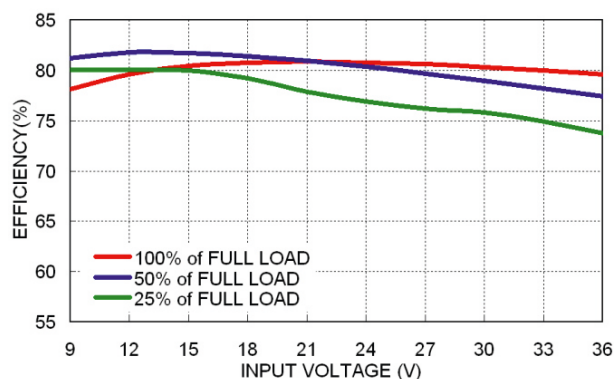
TRACO POWER

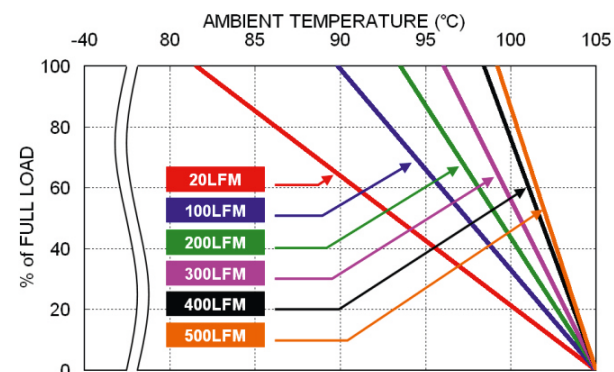## TVN 5-2410WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

TVN 5-2410WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

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

TRACO POWER

TVN 5-2411WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

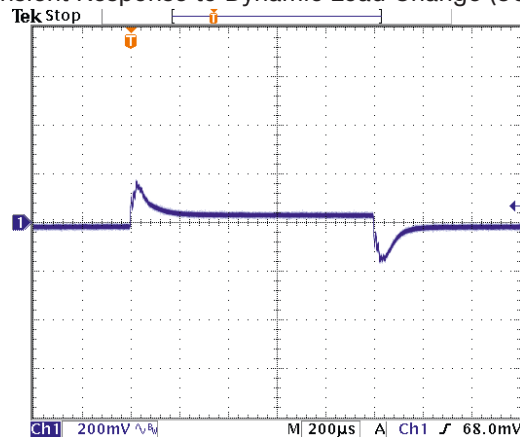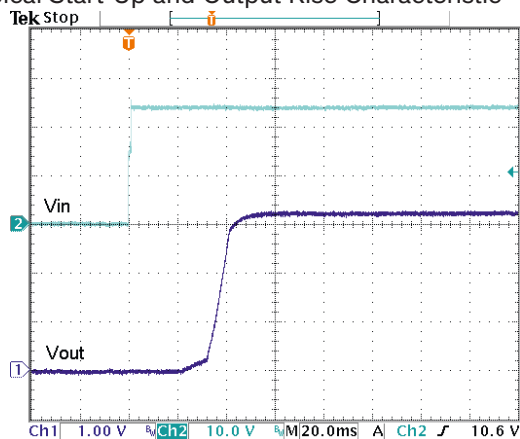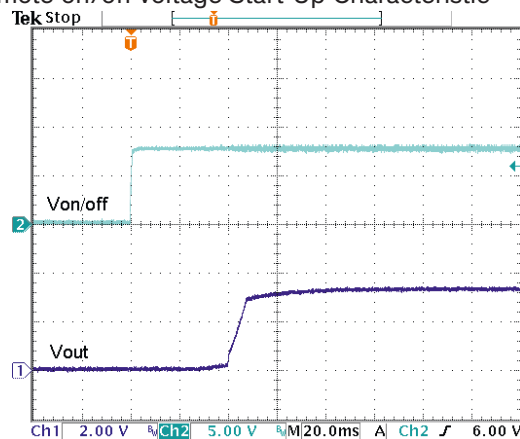### Derating Output Load versus Ambient Temperature

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

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TVN 5-2411WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic
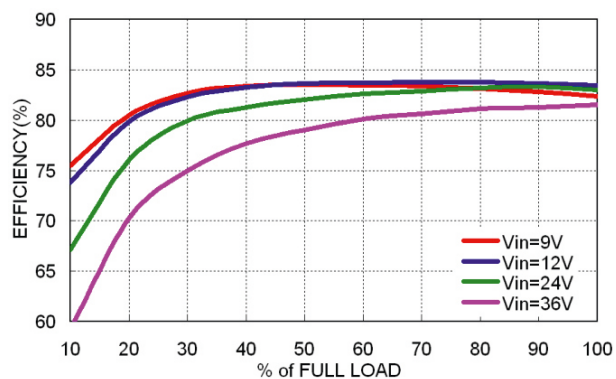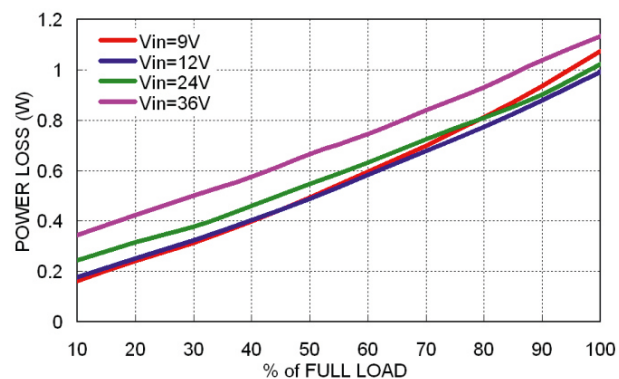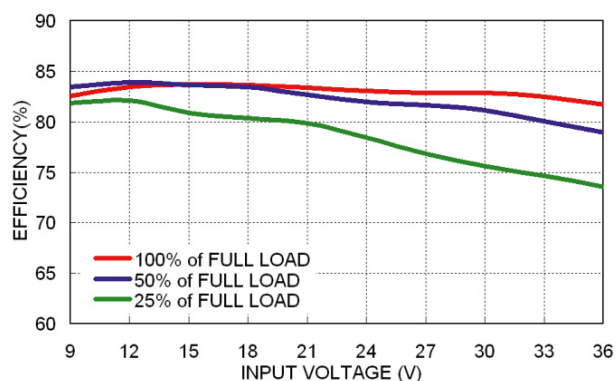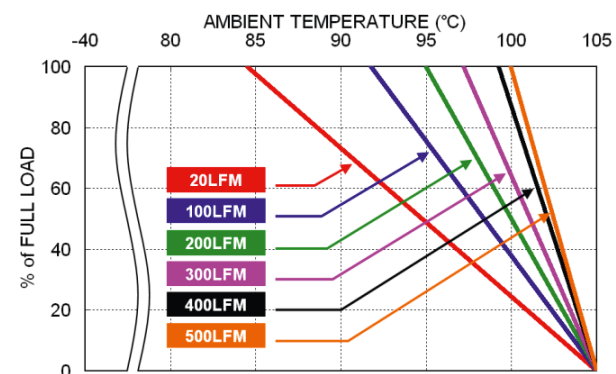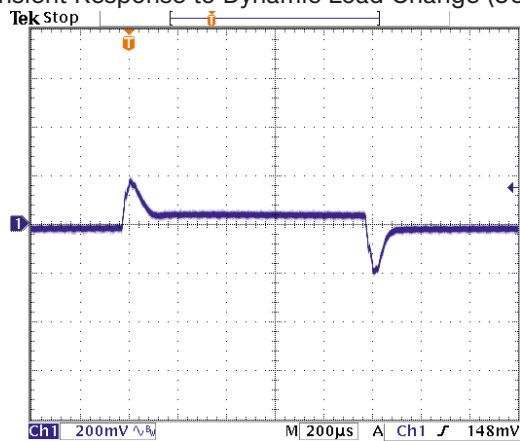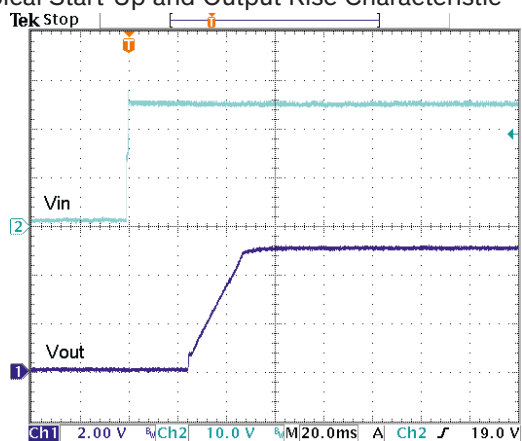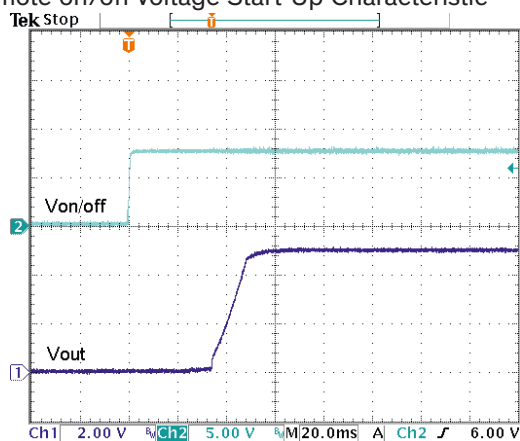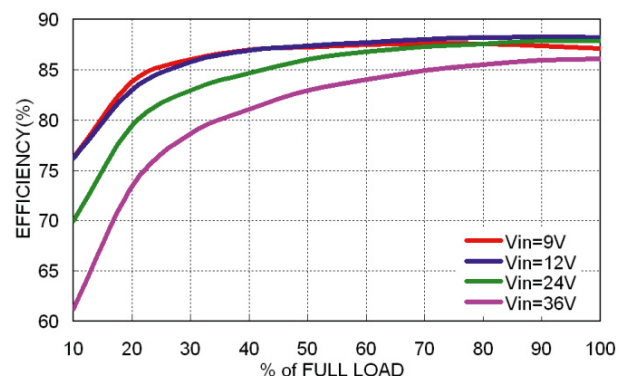

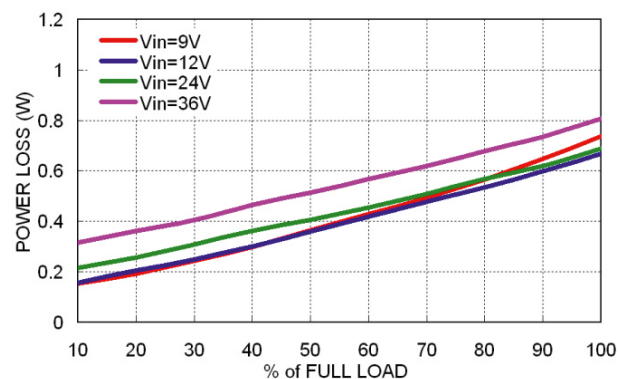Remote on/off Voltage Start-Up Characteristic

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

TVN 5-2412WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

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TVN 5-2412WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

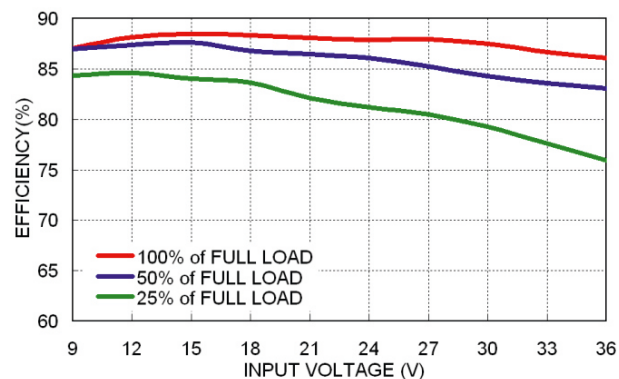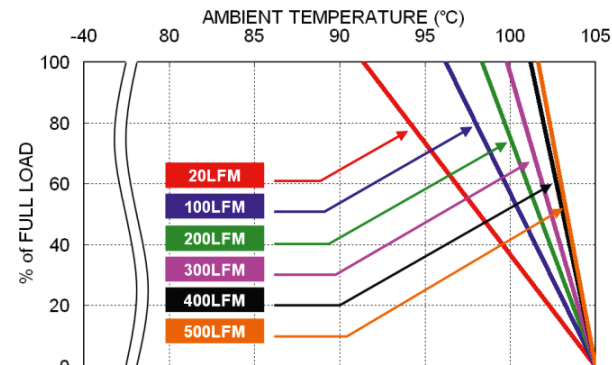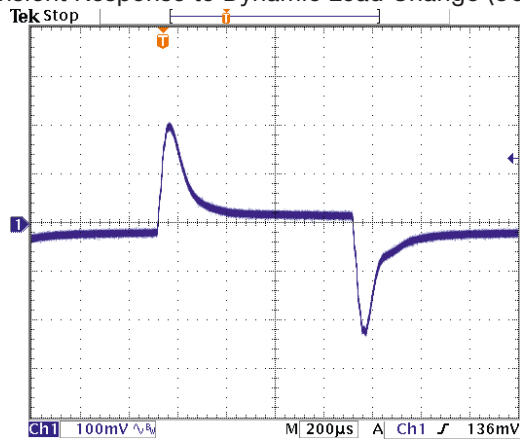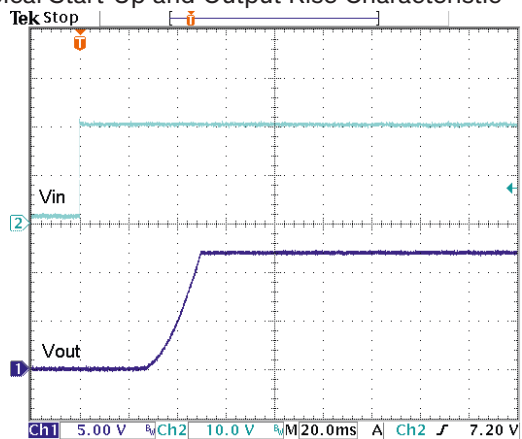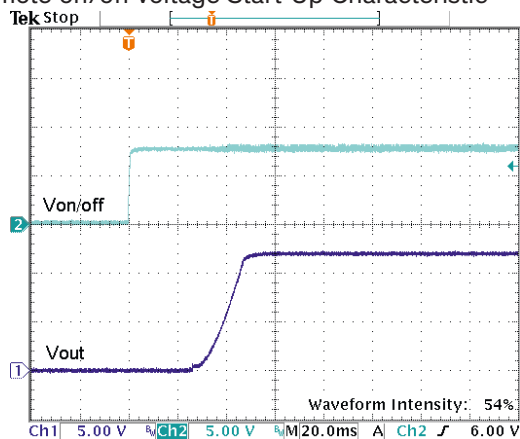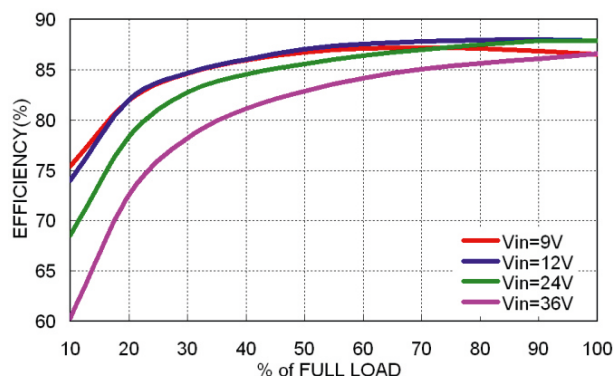All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

TRACO POWER

TVN 5-2413WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

II TRACO POWER

TVN 5-2413WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

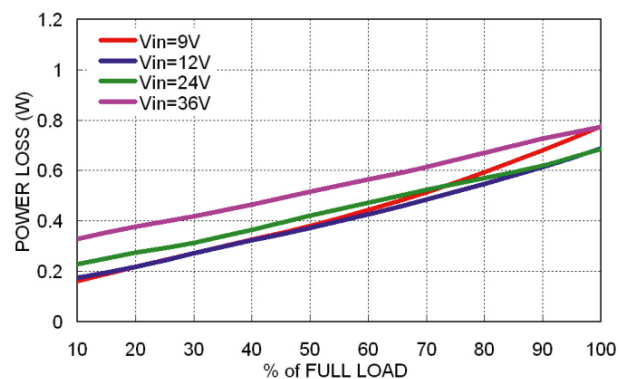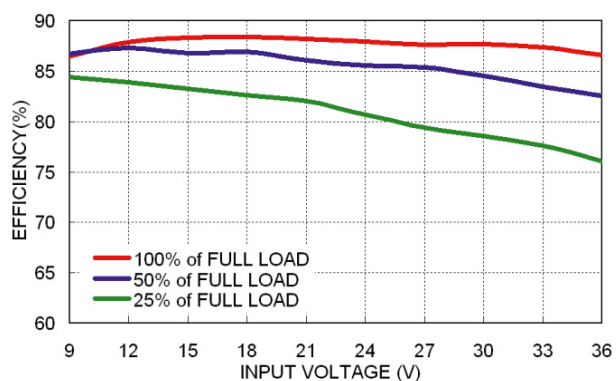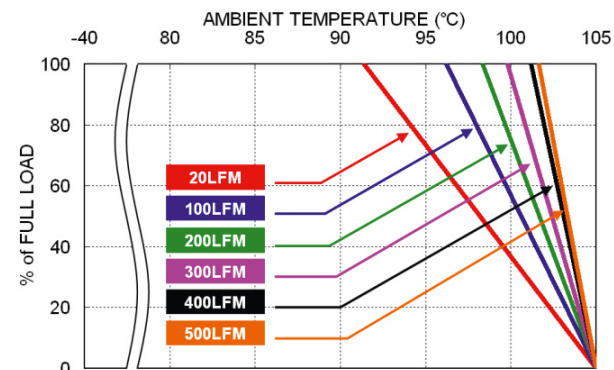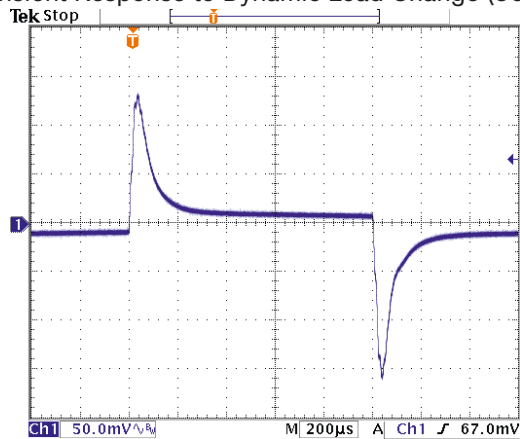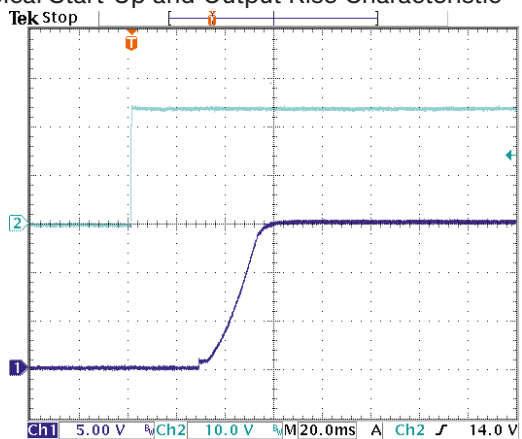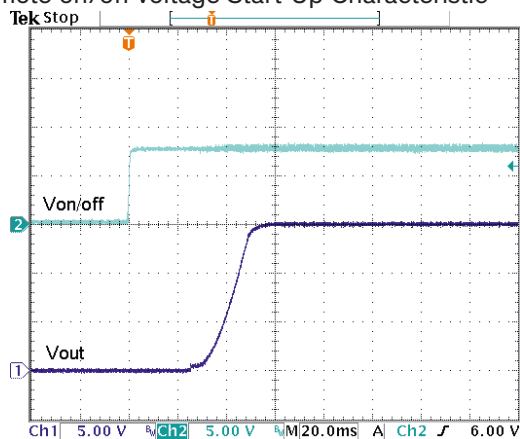Remote on/off Voltage Start-Up Characteristic

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

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TVN 5-2415WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

TRACO POWER

TVN 5-2415WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)
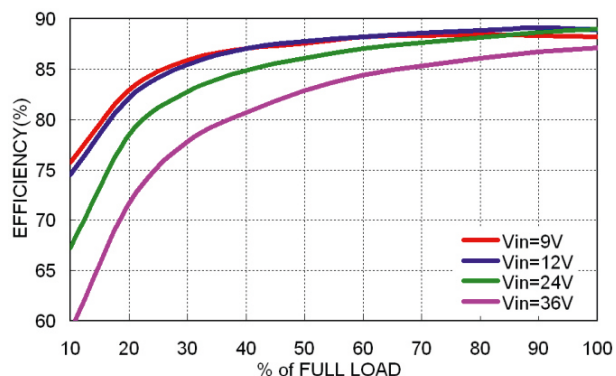
Typical Start-Up and Output Rise Characteristic

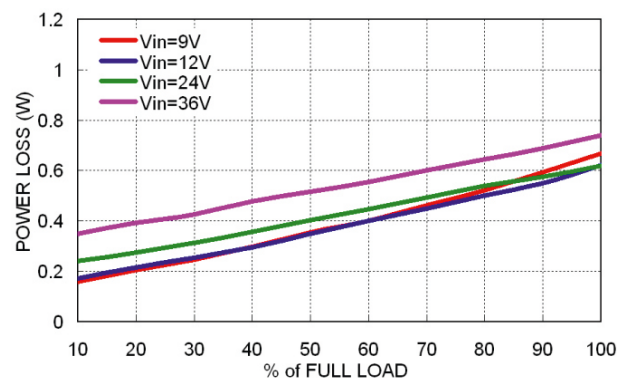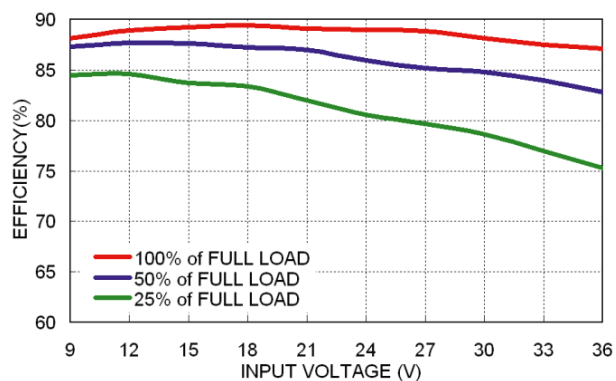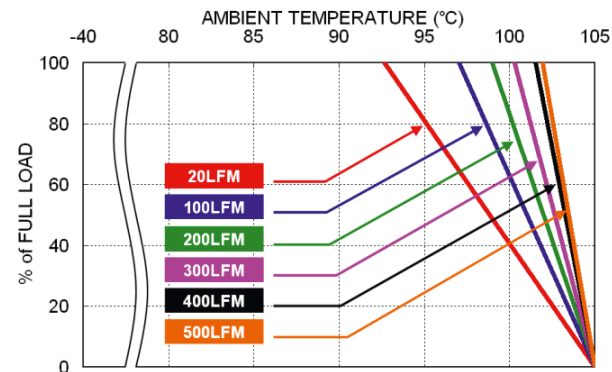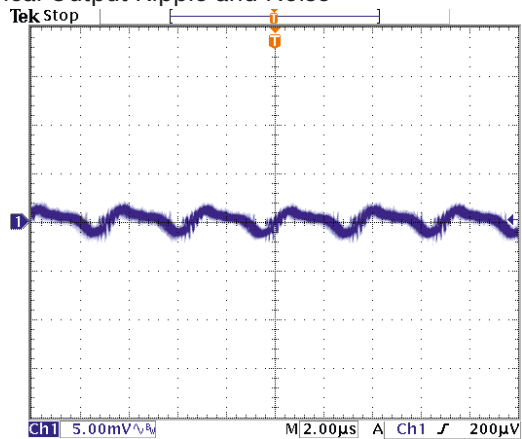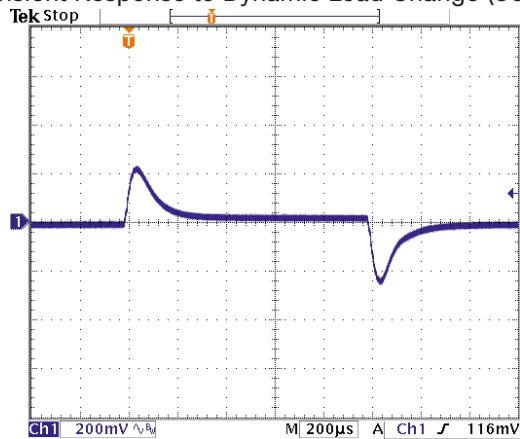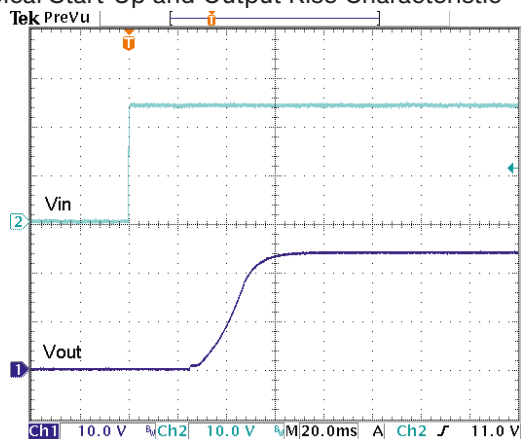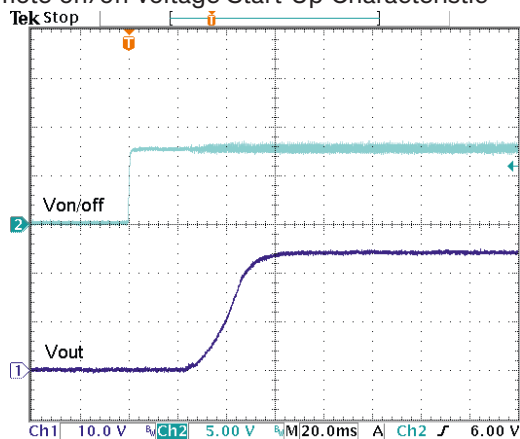Remote on/off Voltage Start-Up Characteristic

TRACO POWER

TVN 5-2421WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

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TRACO POWER

TVN 5-2421WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)
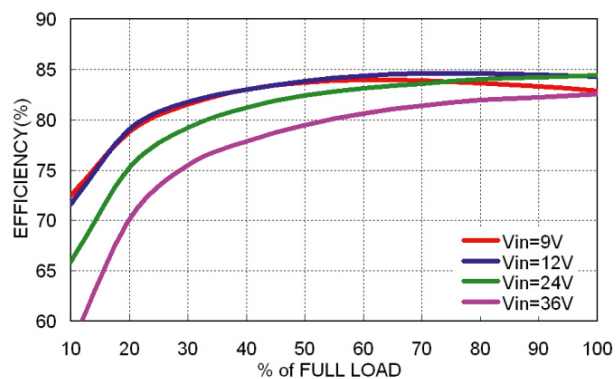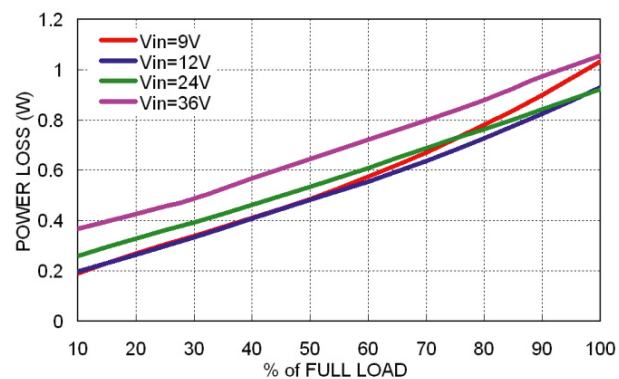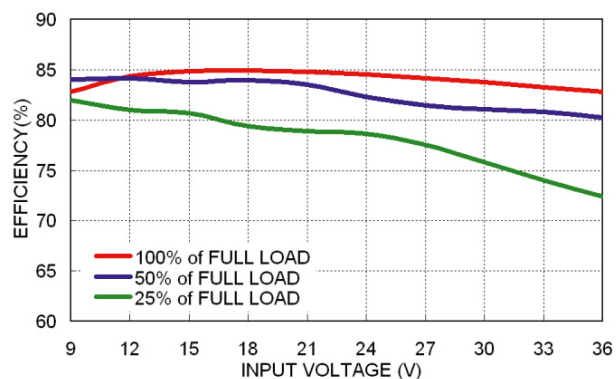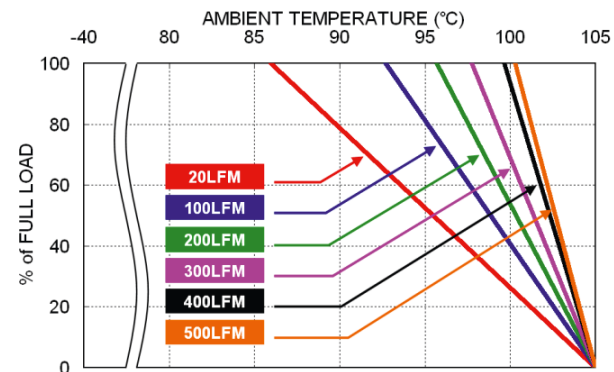

Typical Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

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

TRACO POWER

TVN 5-2422WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

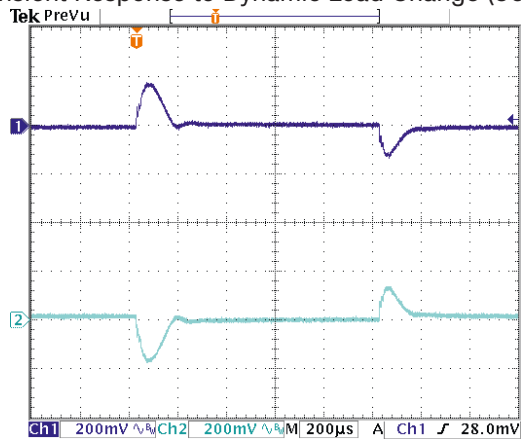## Derating Output Load versus Ambient Temperature

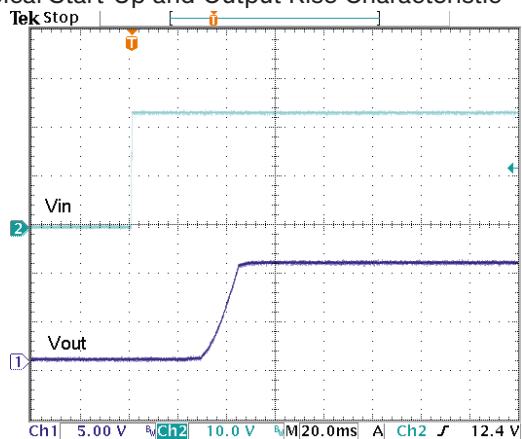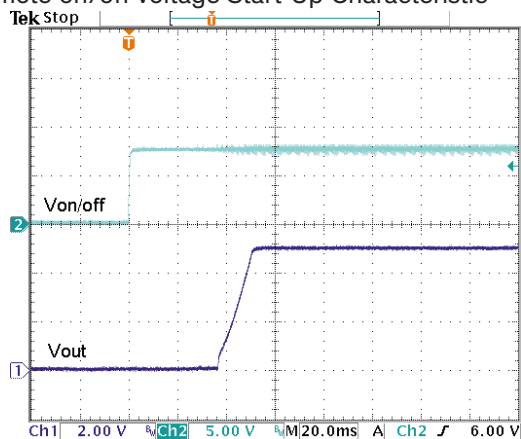**TRACO POWER**

TVN 5-2422WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)
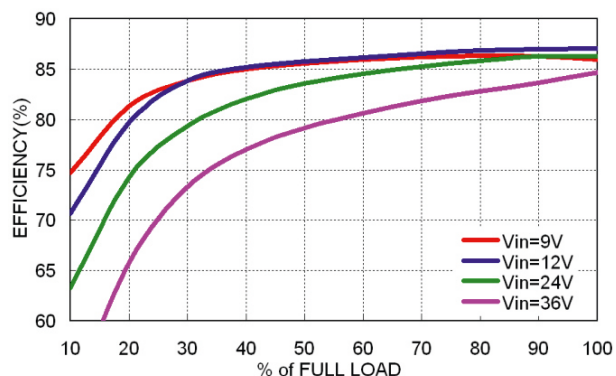

Typical Start-Up and Output Rise Characteristic

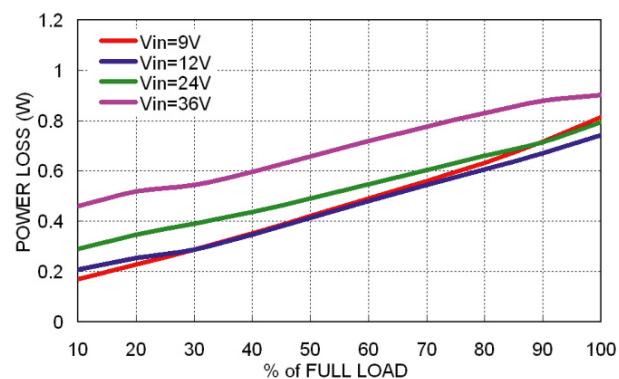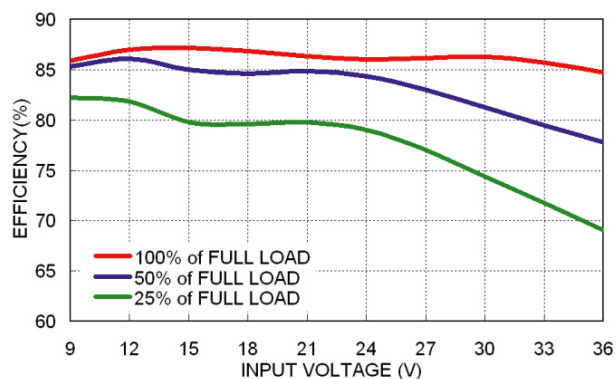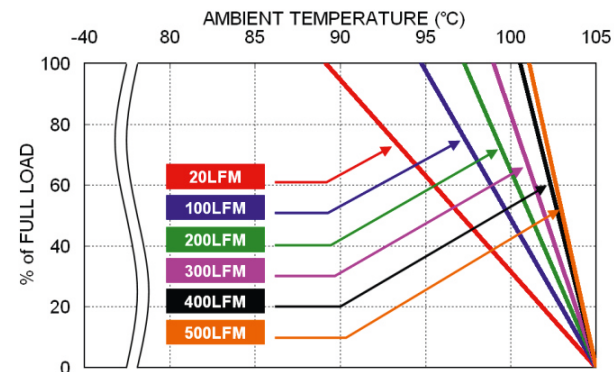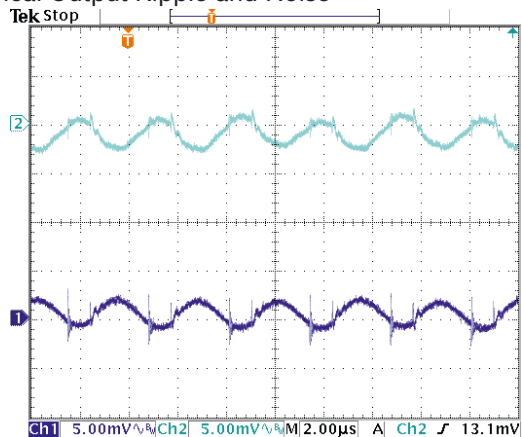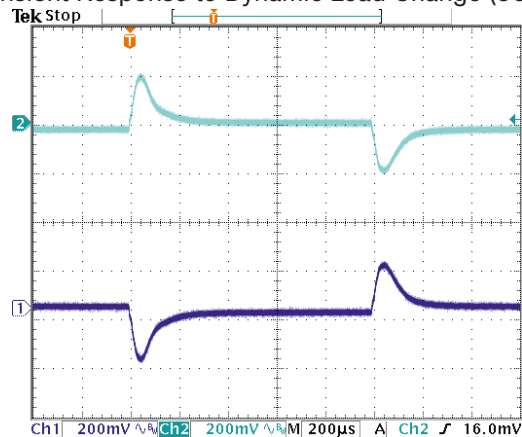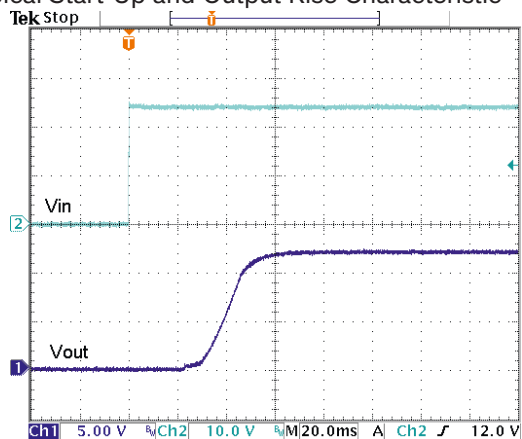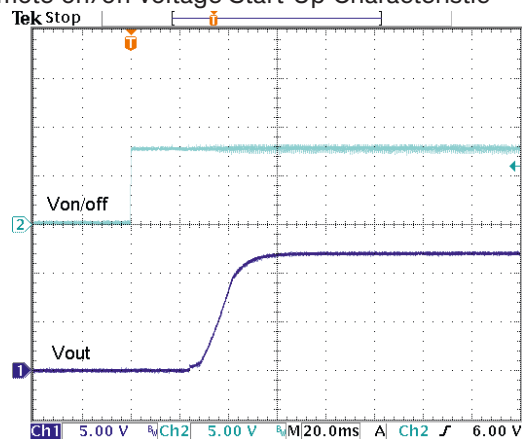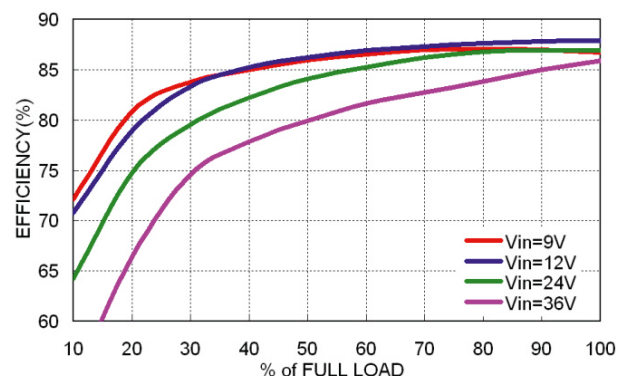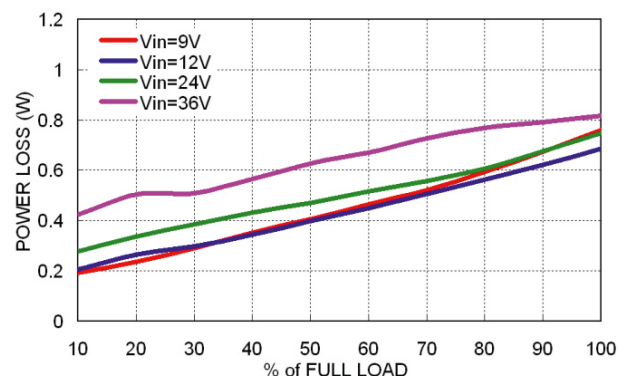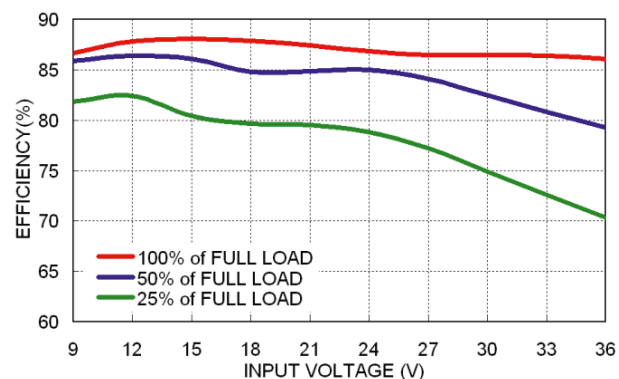Remote on/off Voltage Start-Up Characteristic

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

TRACO POWER

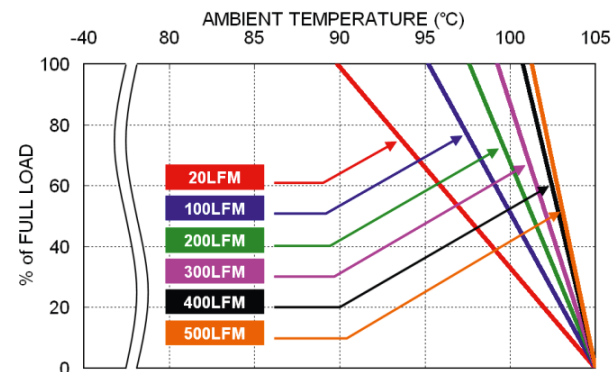## TVN 5-2423WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

TRACO POWER

TVN 5-2423WI

Typical Output Ripple and Noise

Tek Stop

Ch1 5.00mV Ch2 5.00mV M 2.00µs A Ch2 ⌐ −2.20mV

Transient Response to Dynamic Load Change (50%)

Tek Stop

Ch1 200mV Ch2 200mV M 200µs A Ch1 ∫ 44.0mV

Typical Start-Up and Output Rise Characteristic

Tek Stop

Vin

Vout

Ch1 5.00 V Ch2 10.0 V M 20.0ms A Ch2 ∫ 9.20 V

Remote on/off Voltage Start-Up Characteristic

Tek Stop

Von/off

Vout

Ch1 5.00 V Ch2 5.00 V M 20.0ms A Ch2 ∫ 6.00 V

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

TVN 5-2425WI

Efficiency versus Output Load

Power Dissipation versus Output Load
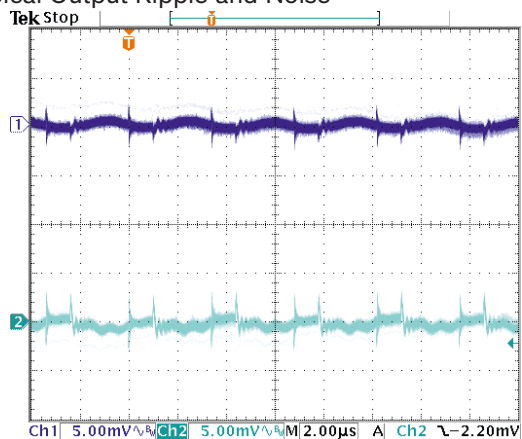

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
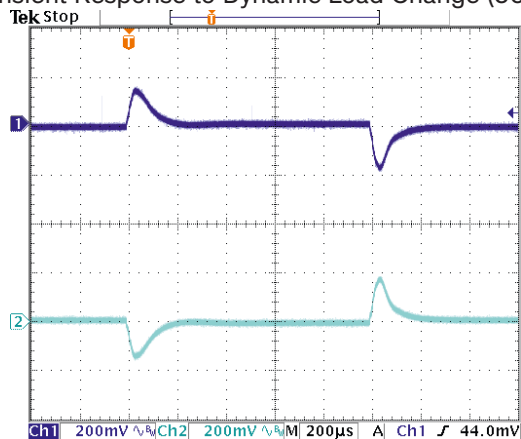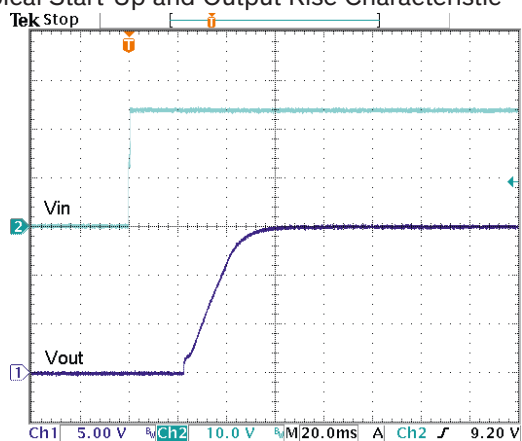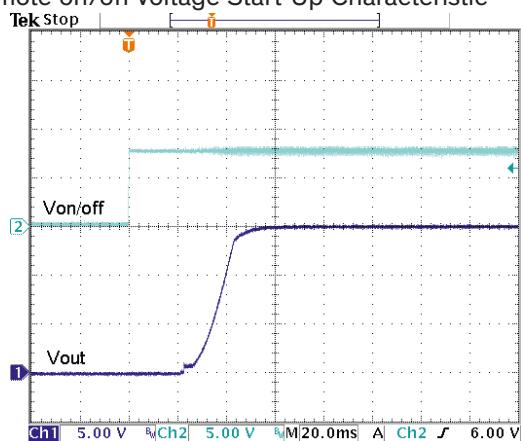
TVN 5-2425WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic
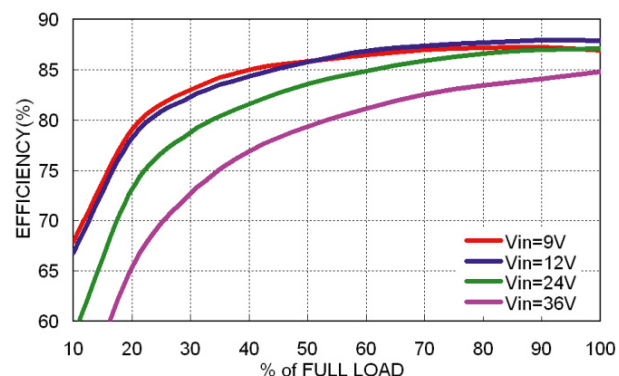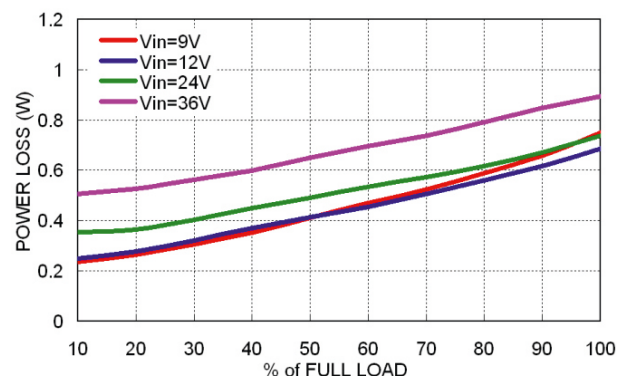

Remote on/off Voltage Start-Up Characteristic

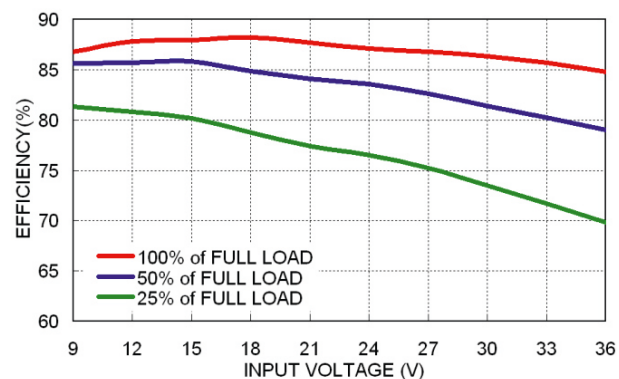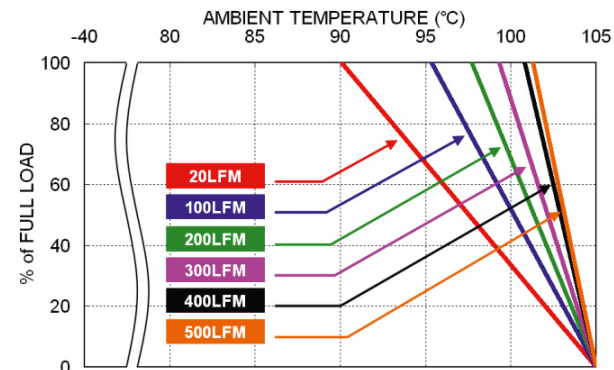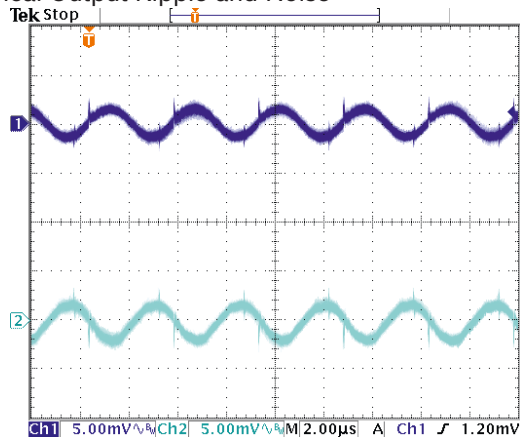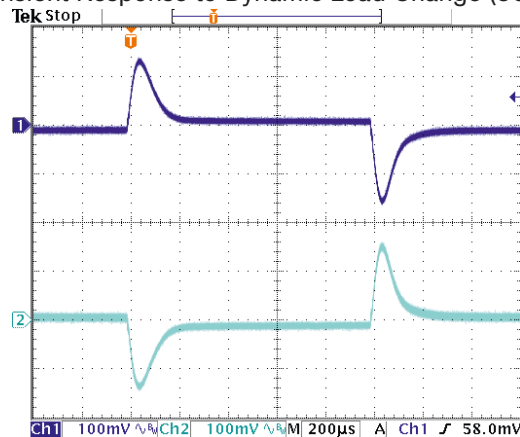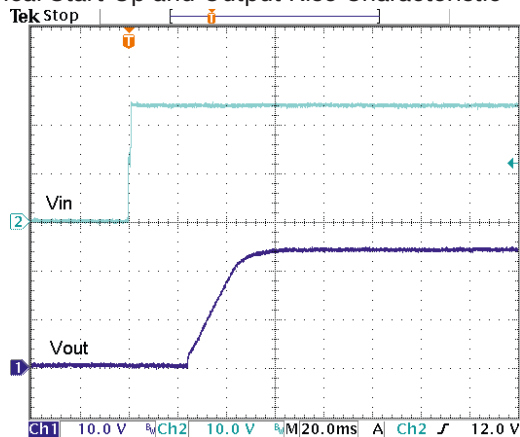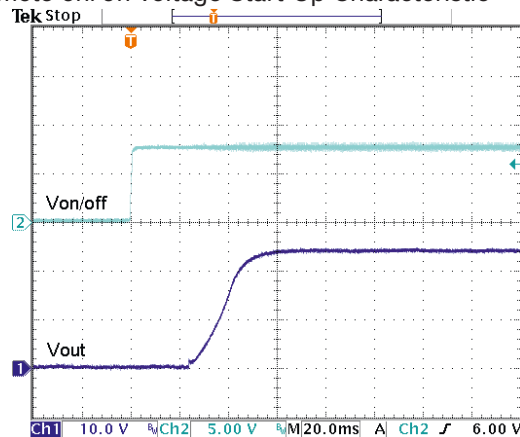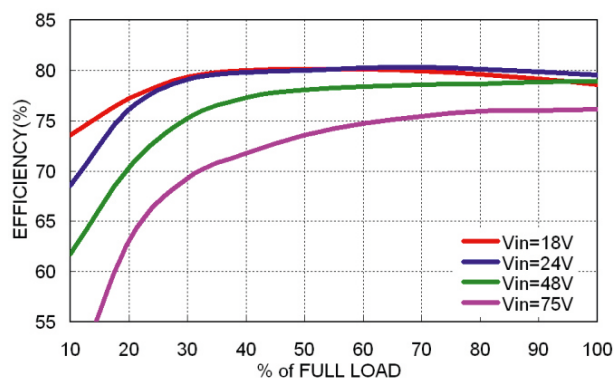All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

TVN 5-4810WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

TVN 5-4810WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

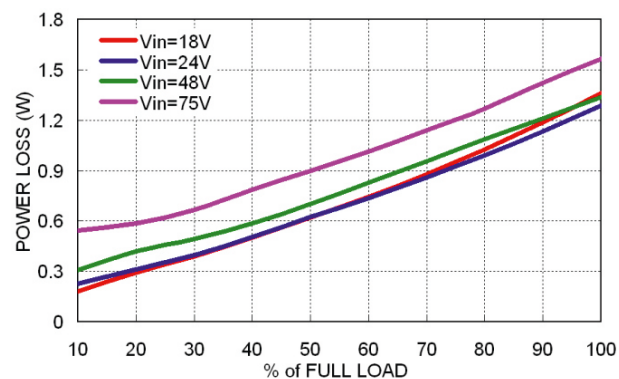Remote on/off Voltage Start-Up Characteristic

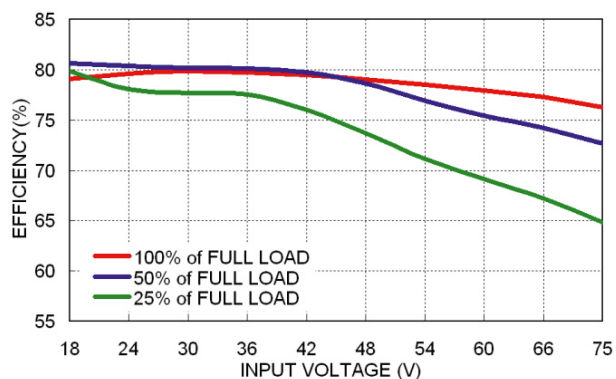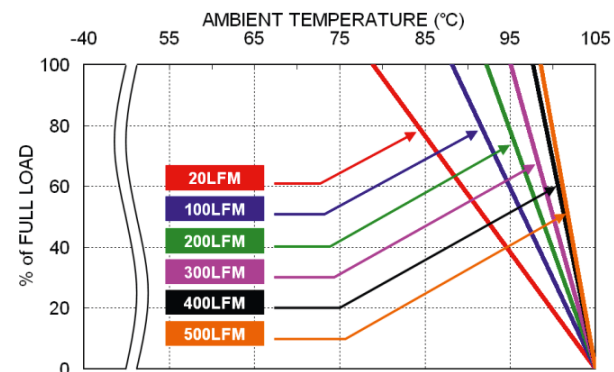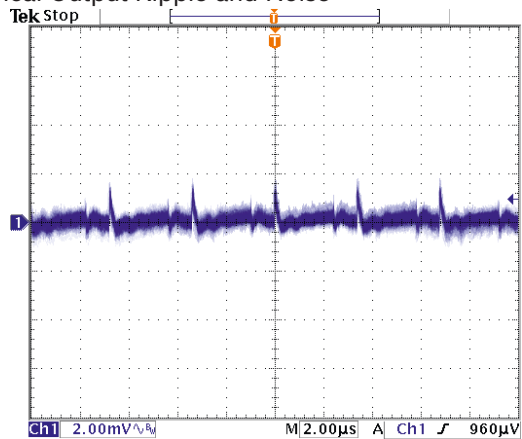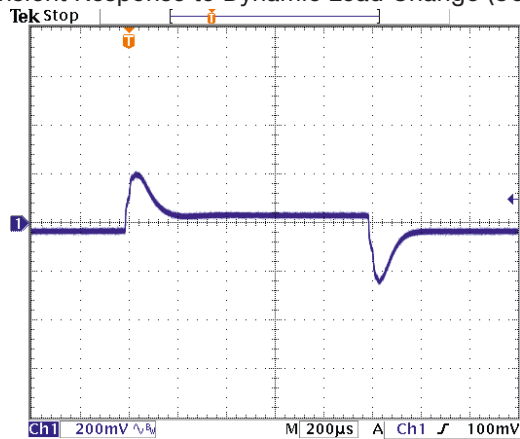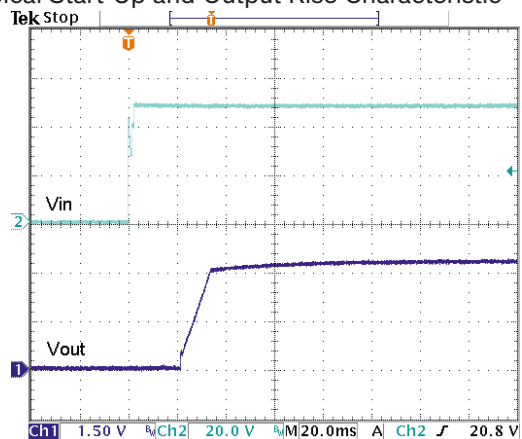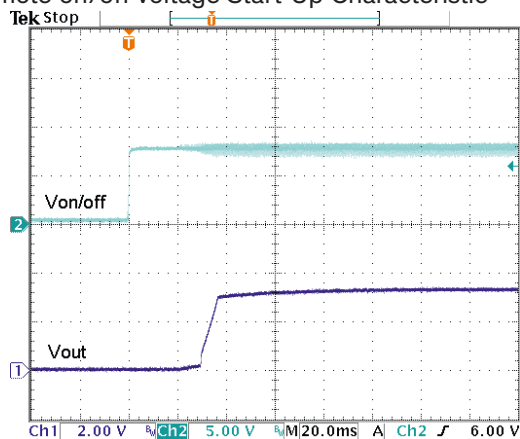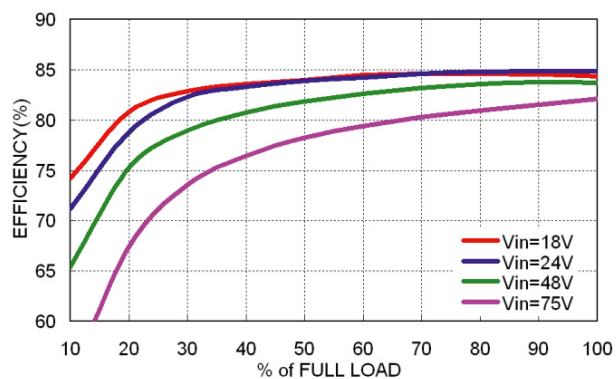All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

TRACO POWER

TVN 5-4811WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

TVN 5-4811WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic
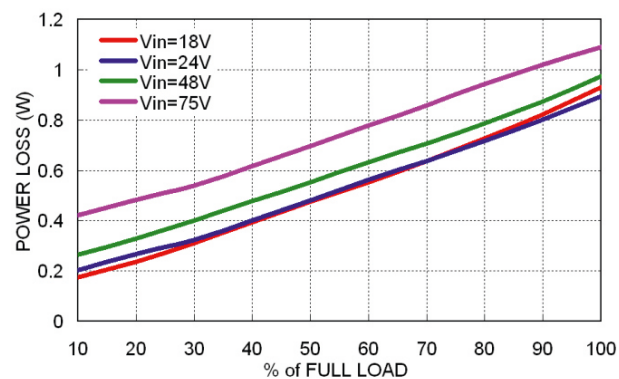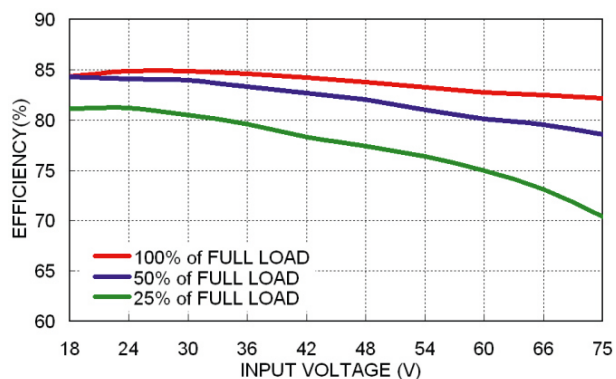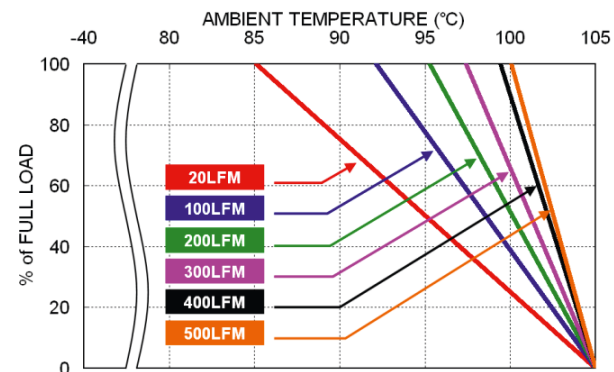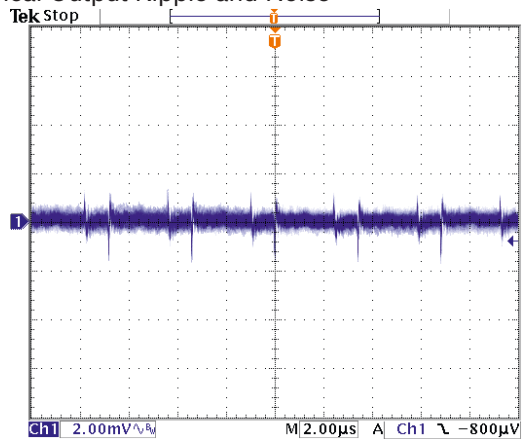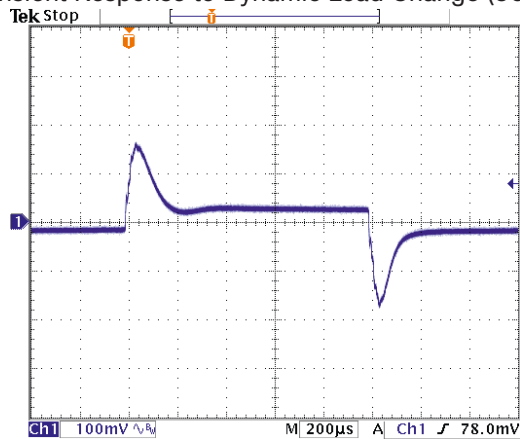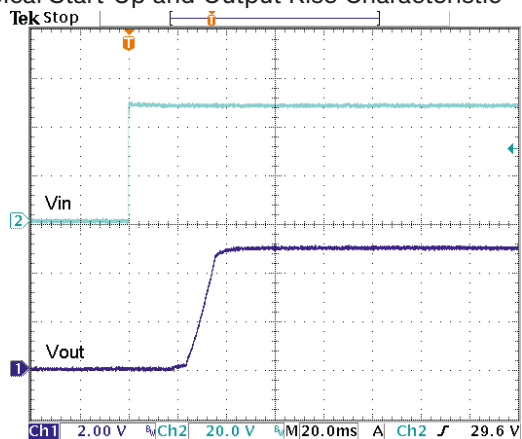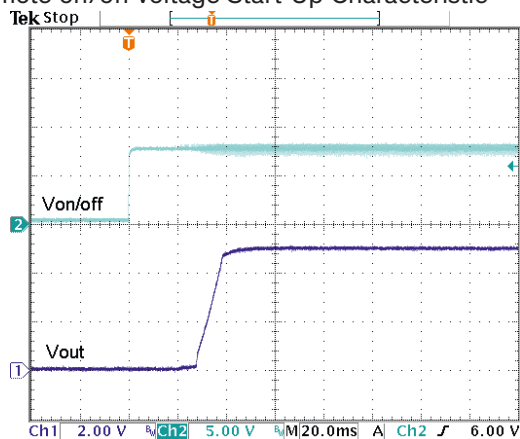

Remote on/off Voltage Start-Up Characteristic

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

TRACO POWER

TVN 5-4812WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

TVN 5-4812WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

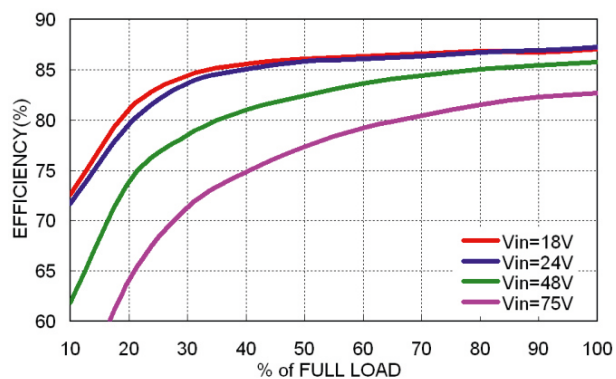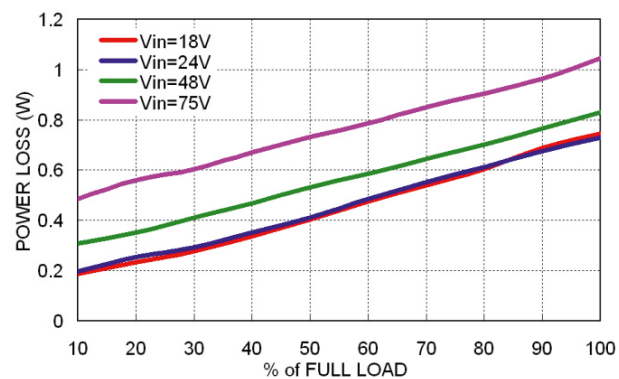## Typical Start-Up and Output Rise Characteristic
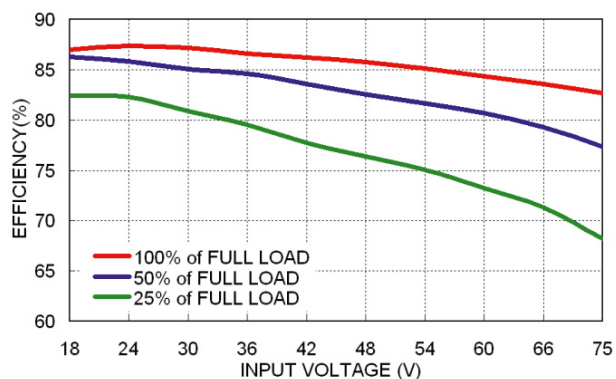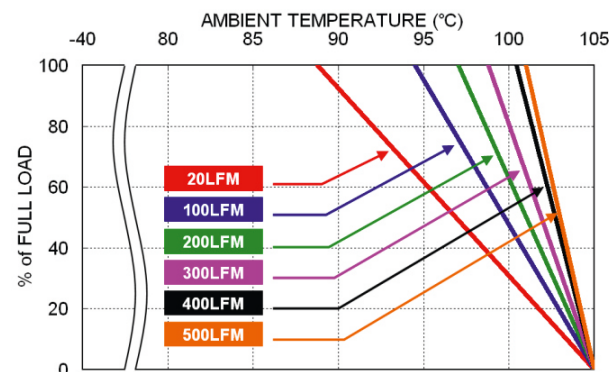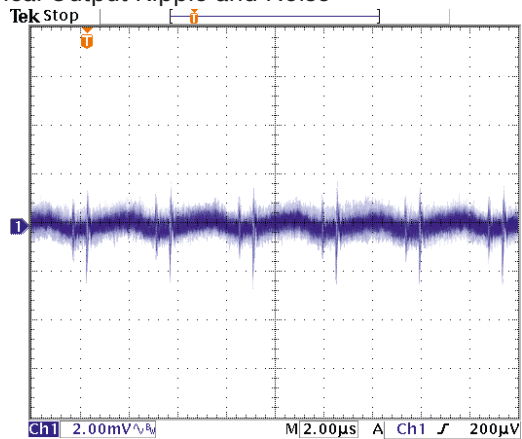

Remote on/off Voltage Start-Up Characteristic

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

TVN 5-4813WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
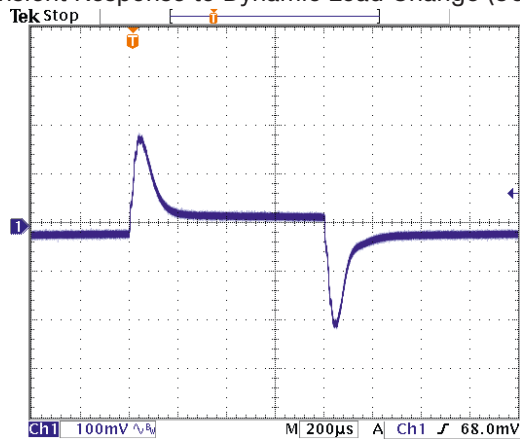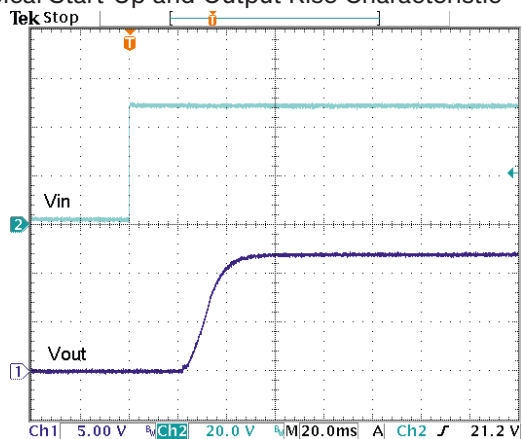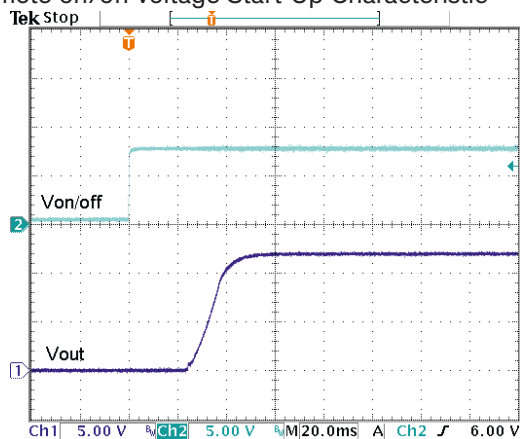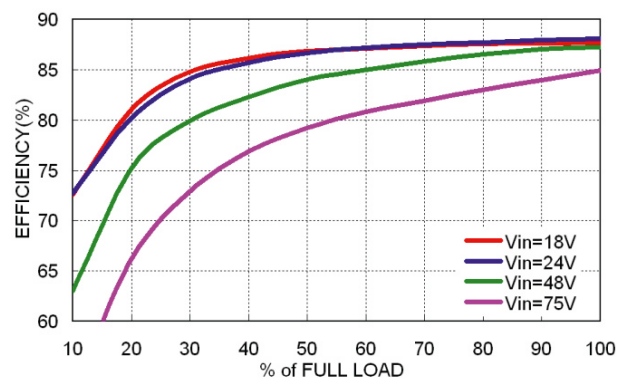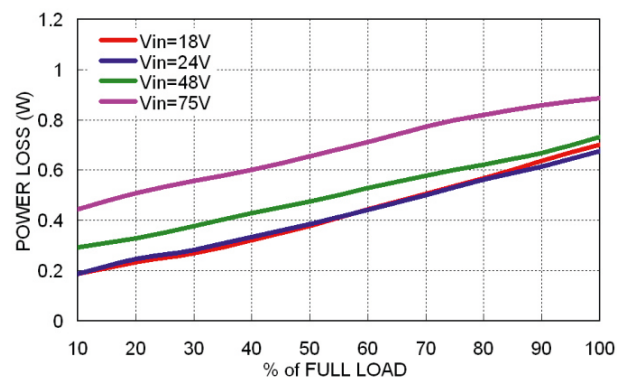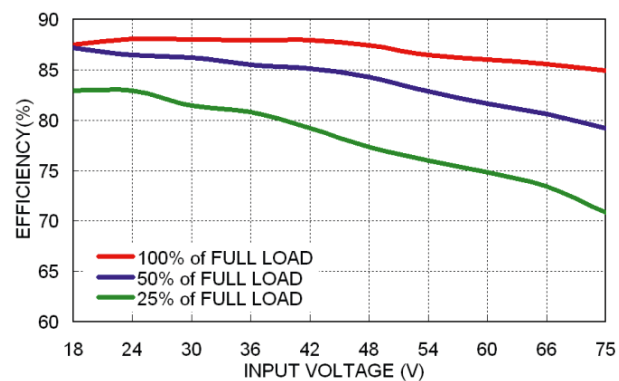

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

TVN 5-4813WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic
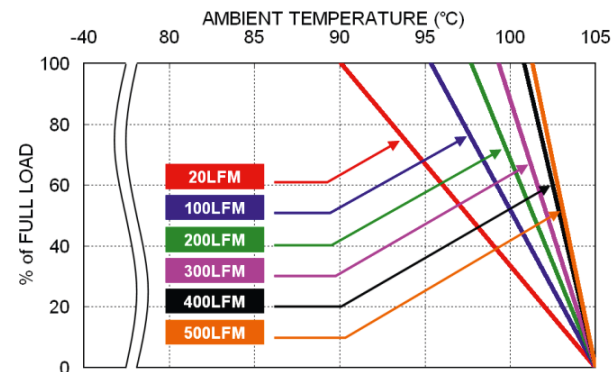
TVN 5-4815WI

Efficiency versus Output Load

Power Dissipation versus Output Load
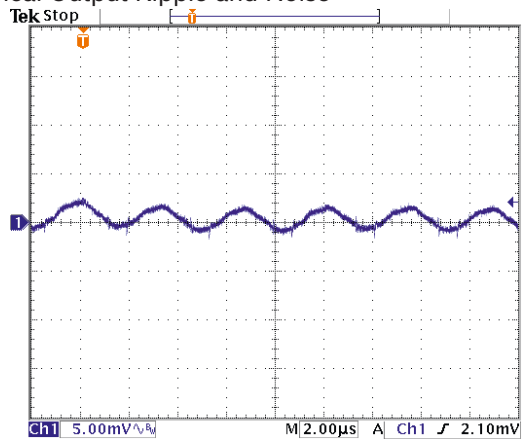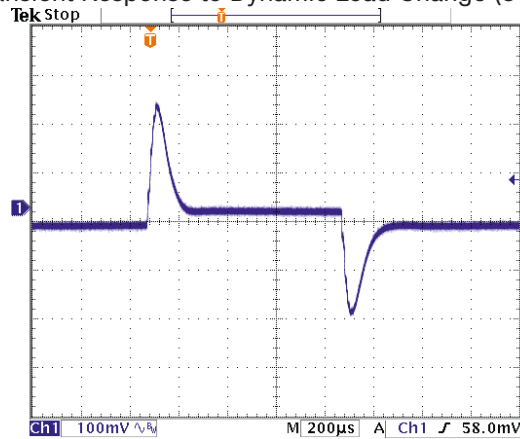

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
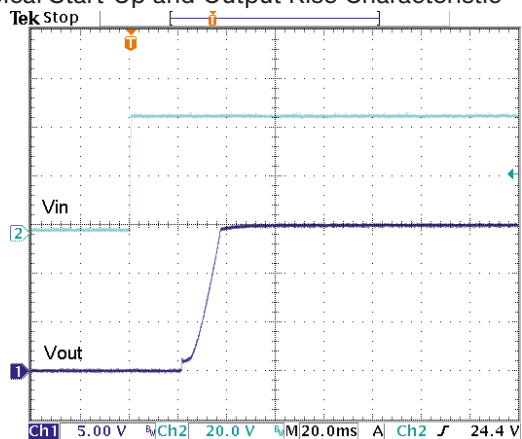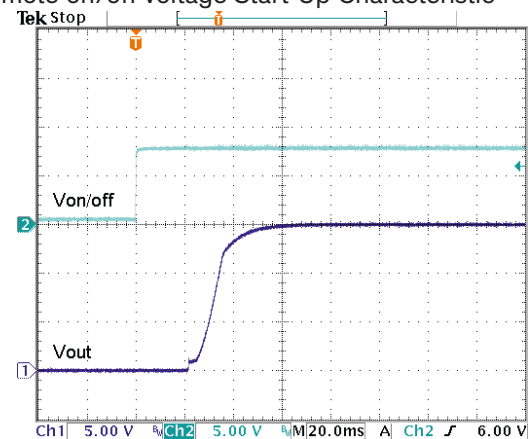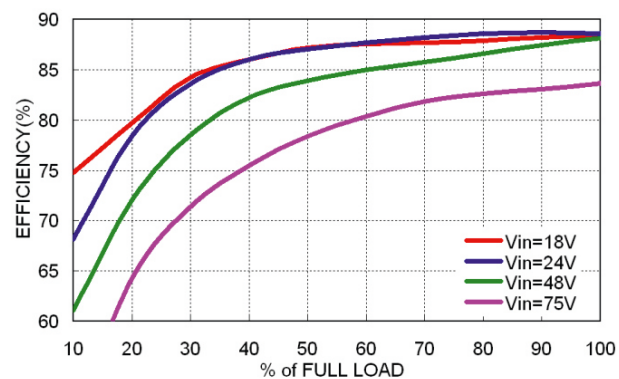
TVN 5-4815WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

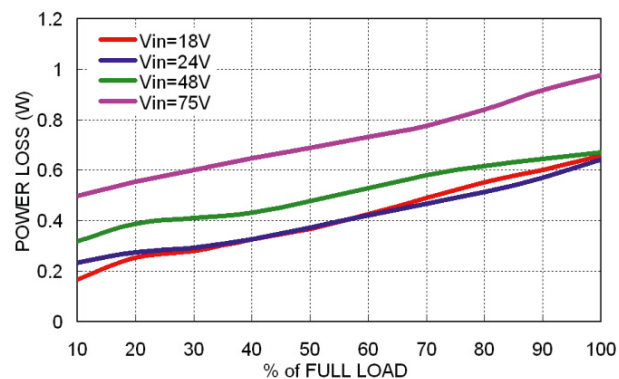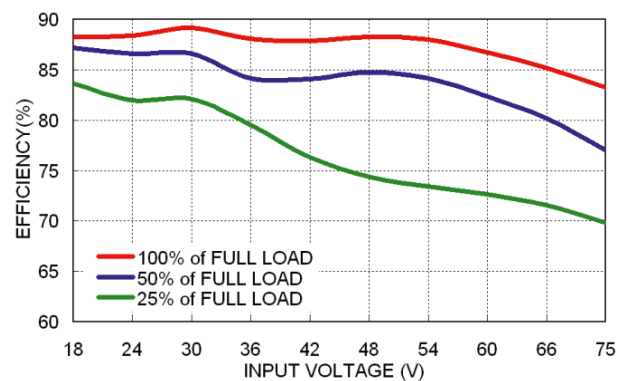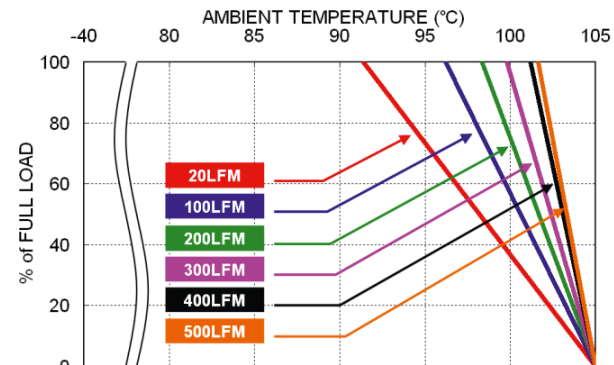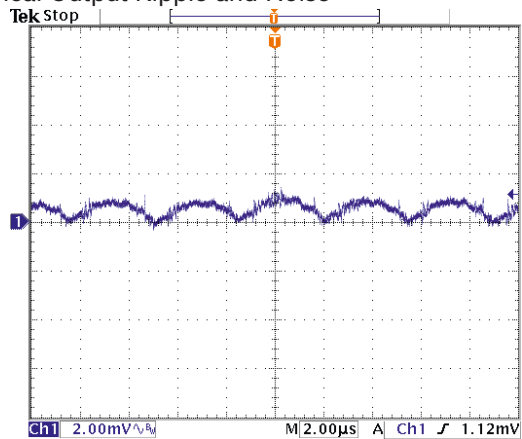Remote on/off Voltage Start-Up Characteristic

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

TVN 5-4821WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage
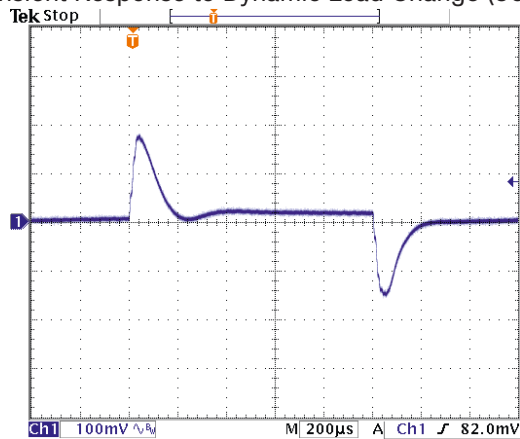

Derating Output Load versus Ambient Temperature
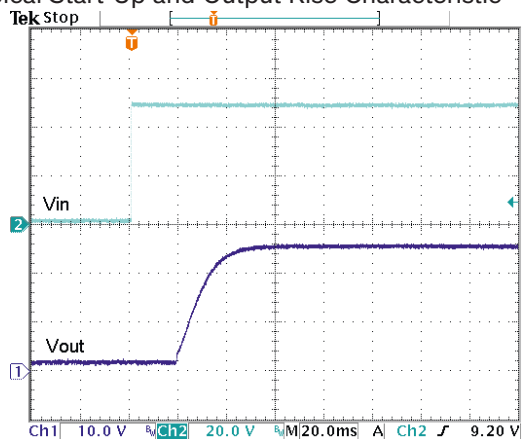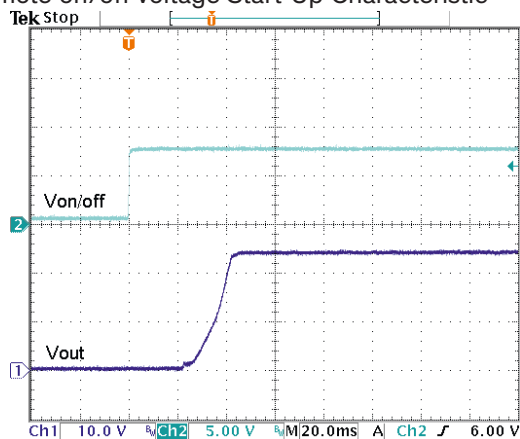
TVN 5-4821WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)
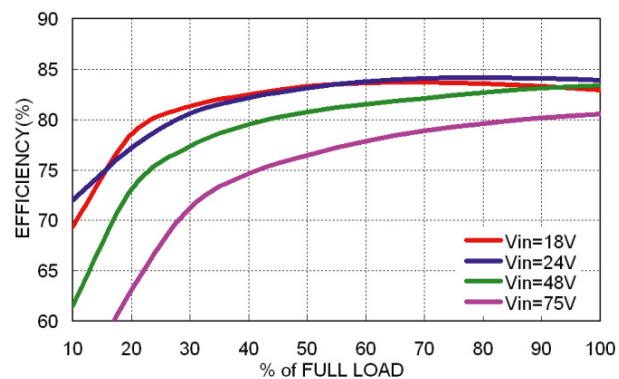
Typical Start-Up and Output Rise Characteristic
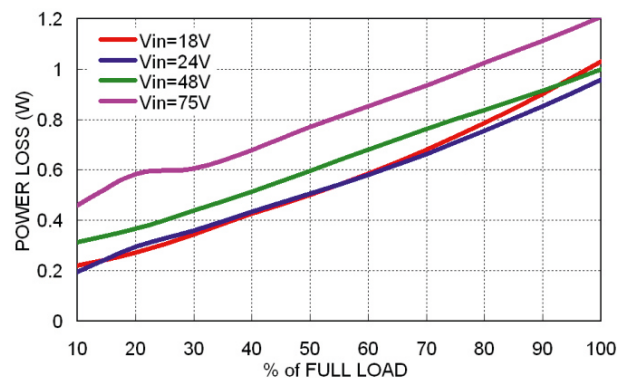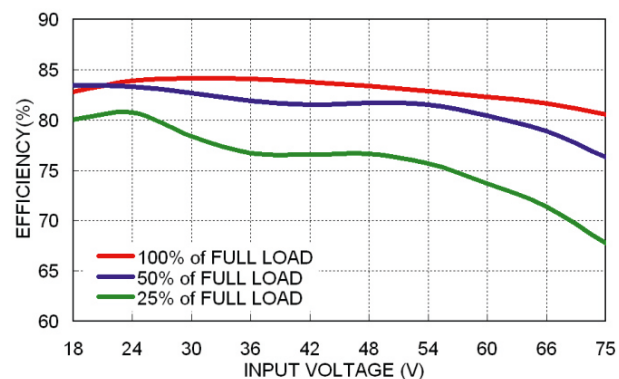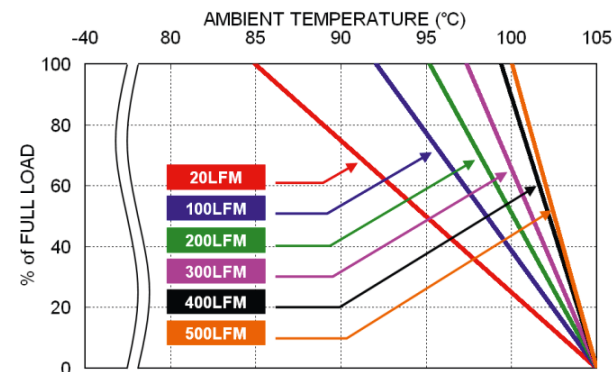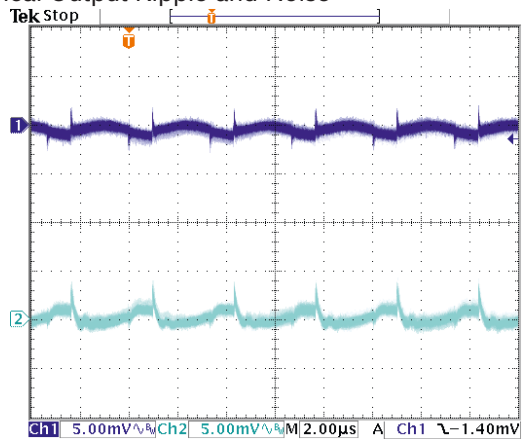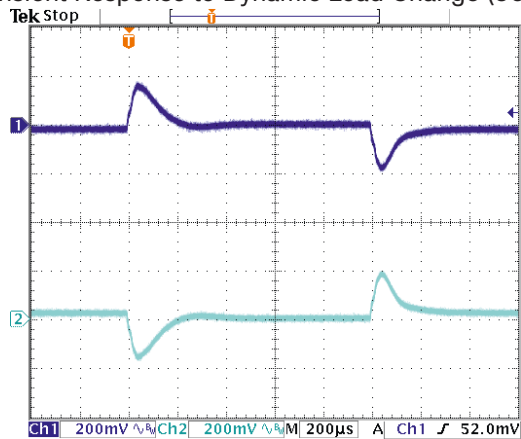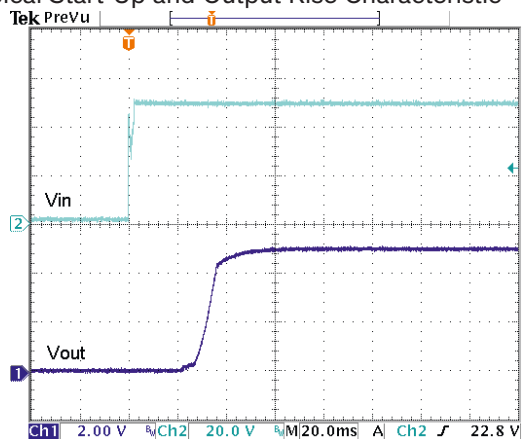
Remote on/off Voltage Start-Up Characteristic

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

TRACO POWER

TVN 5-4822WI

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

TVN 5-4822WI

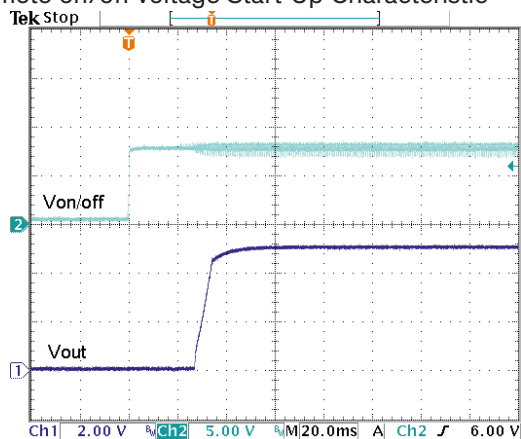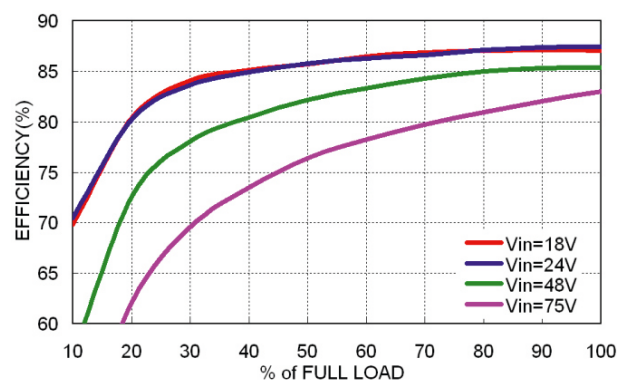### Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

Typical Start-Up and Output Rise Characteristic

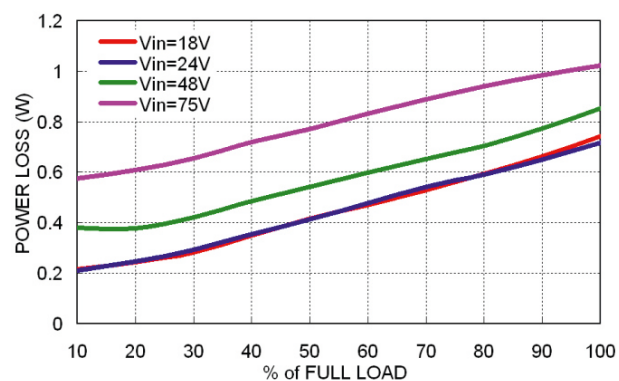### Remote on/off Voltage Start-Up Characteristic

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
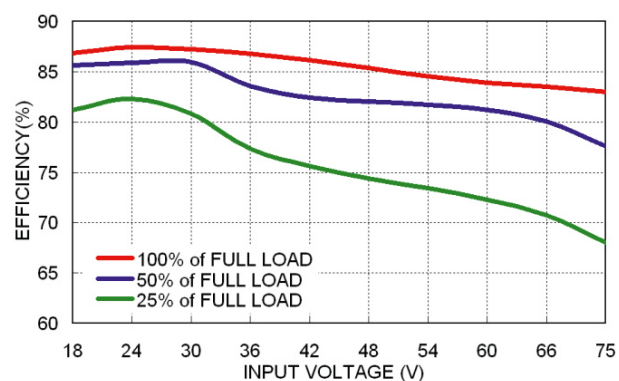
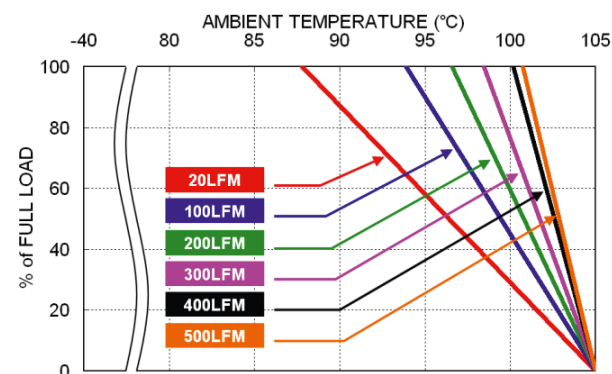## TVN 5-4823WI

Efficiency versus Output Load

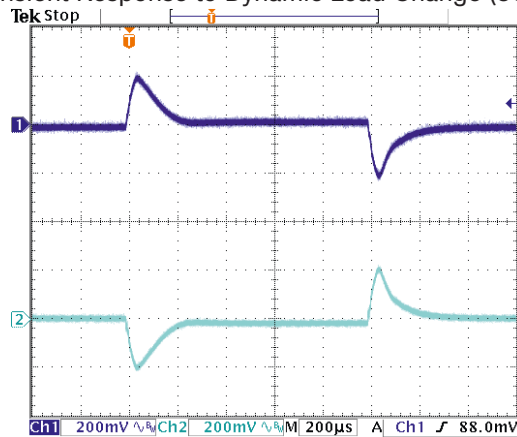### Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

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

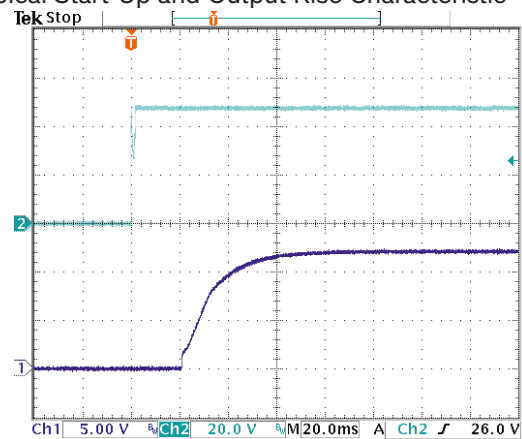# II TRACO POWER

TVN 5-4823WI

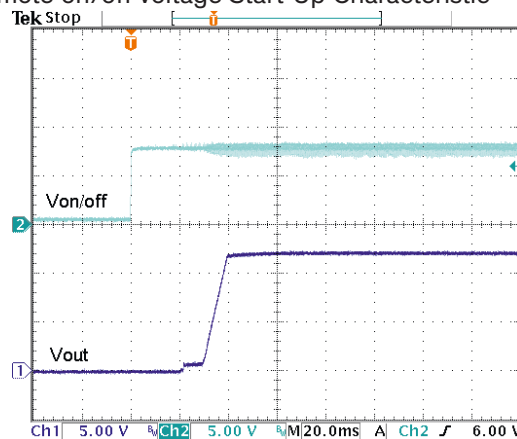### Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

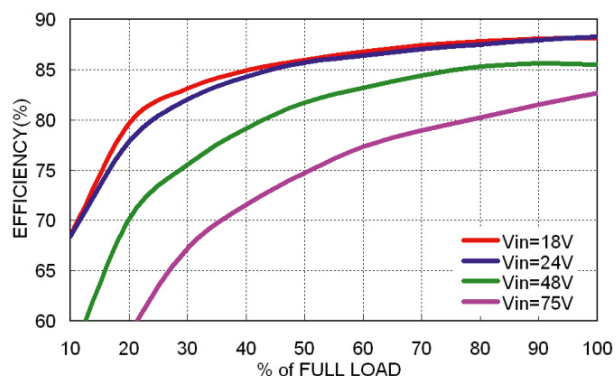
Typical Start-Up and Output Rise Characteristic

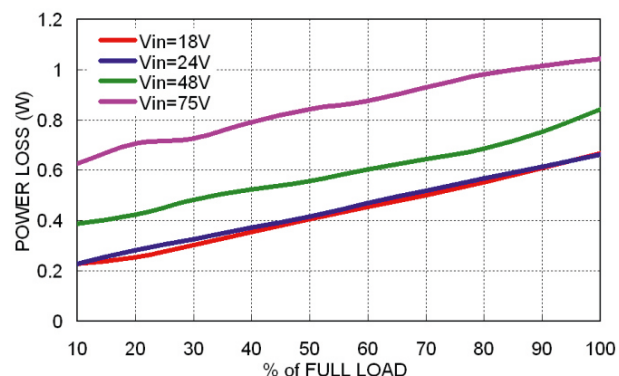### Remote on/off Voltage Start-Up Characteristic

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
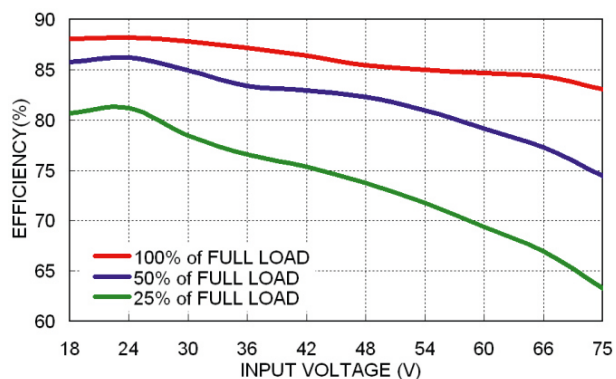
TVN 5-4825WI

Efficiency versus Output Load

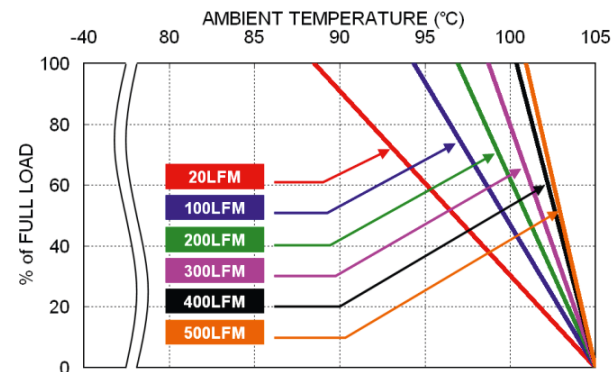### Power Dissipation versus Output Load

Efficiency versus Input Voltage

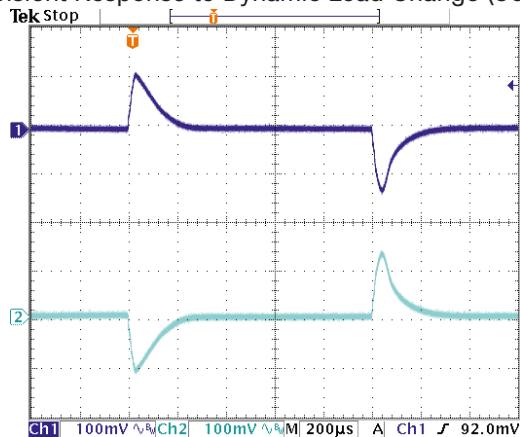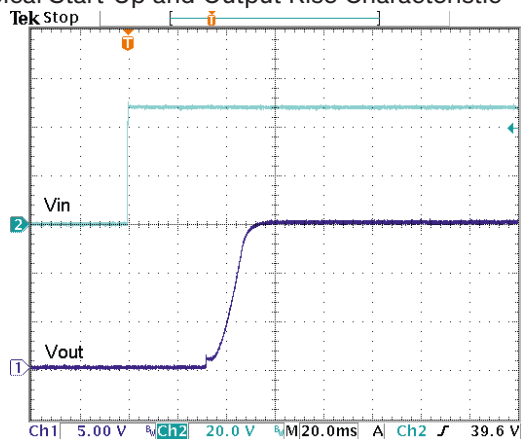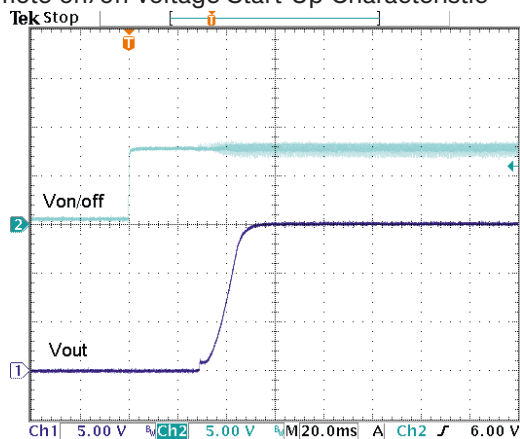### Derating Output Load versus Ambient Temperature

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

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TVN 5-4825WI

Typical Output Ripple and Noise

Transient Response to Dynamic Load Change (50%)

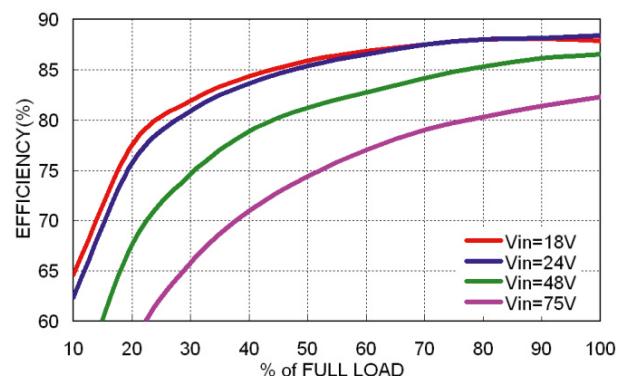### Typical Start-Up and Output Rise Characteristic

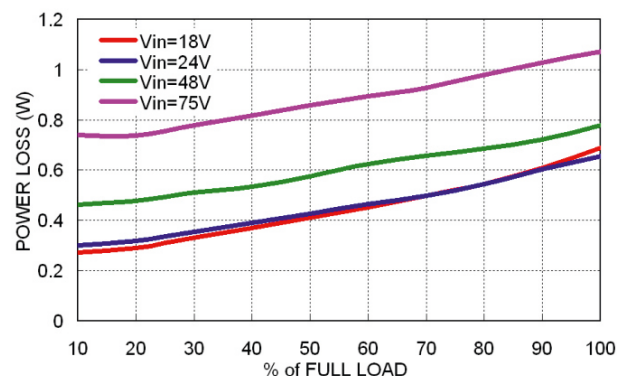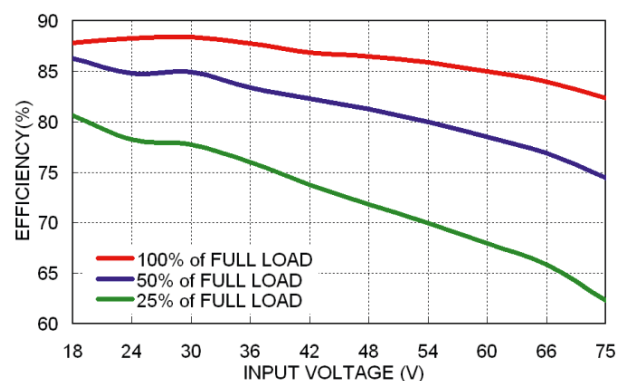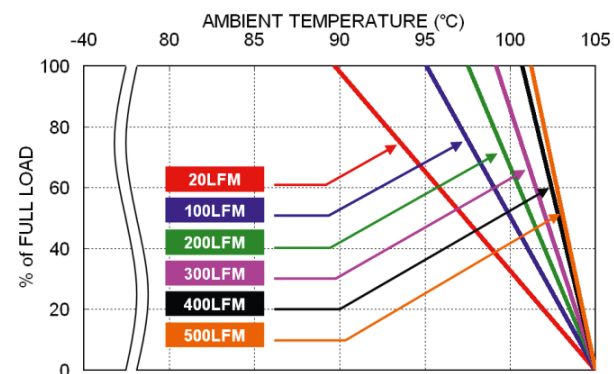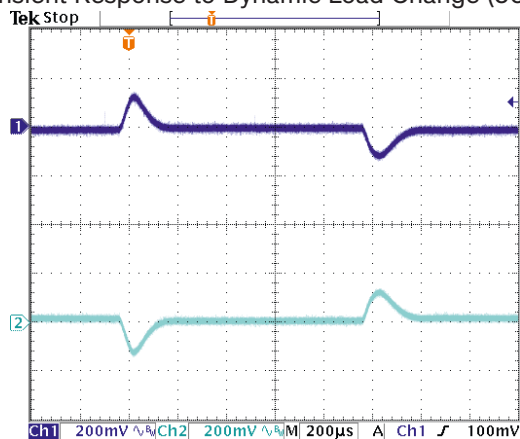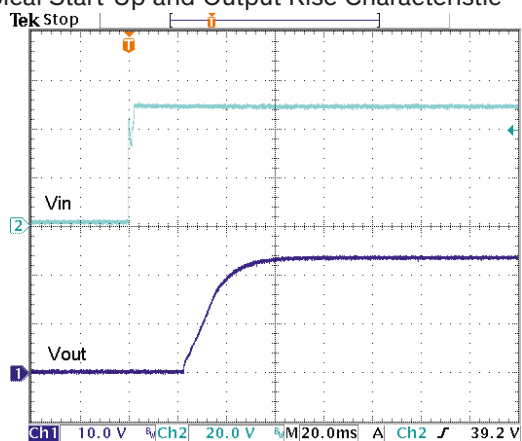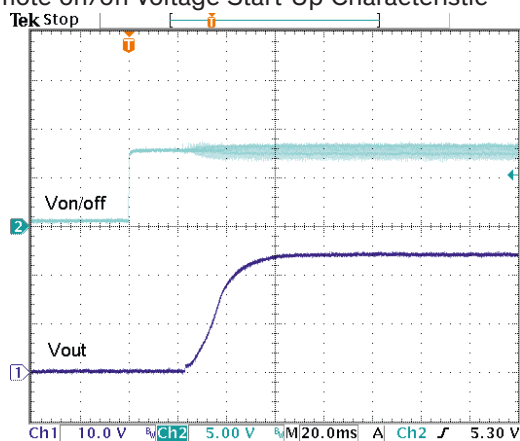### Remote on/off Voltage Start-Up Characteristic

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

Specifications can be changed without notice!