TRACO POWER
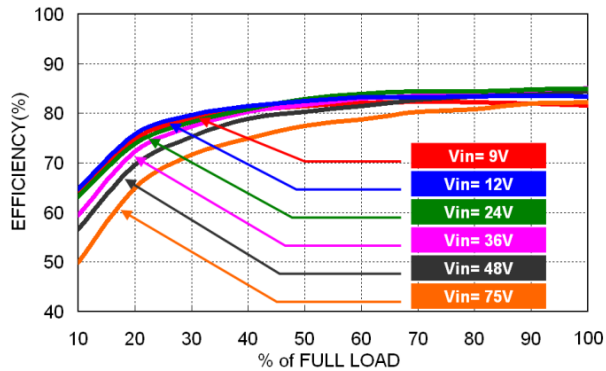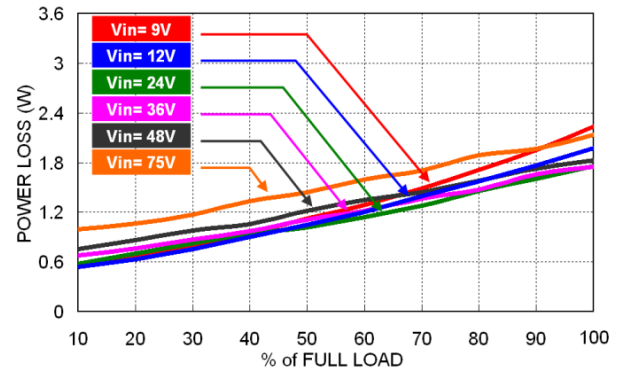
Characteristic Curves
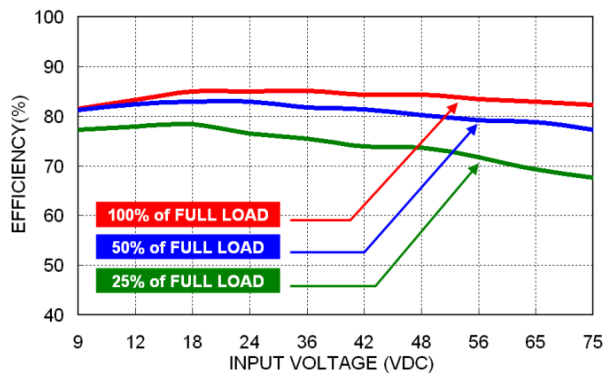
THN 10-3610UIR

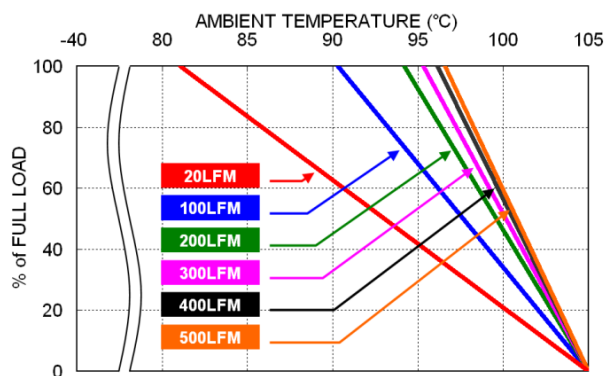Efficiency versus Output Load
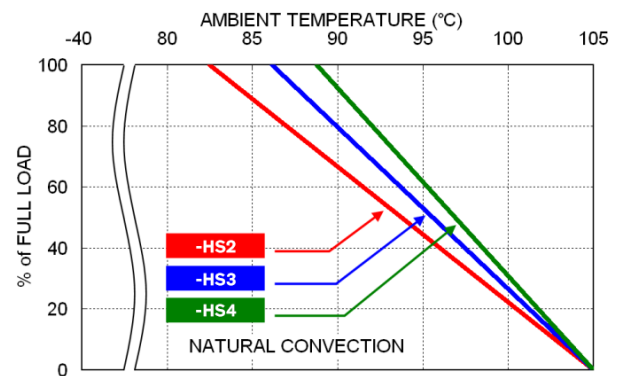

Power Dissipation versus Output Load

Efficiency versus Input Voltage

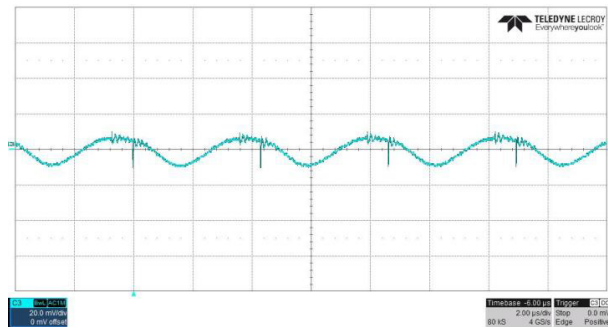Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature (with optional Heatsinks)
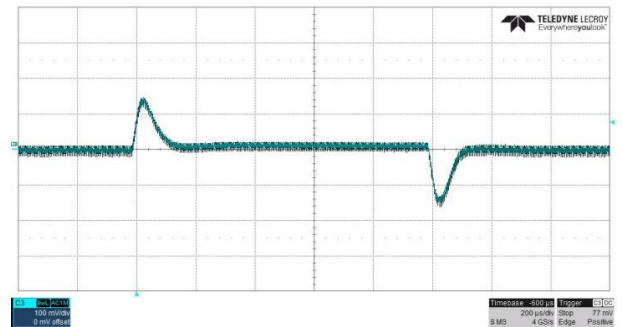

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
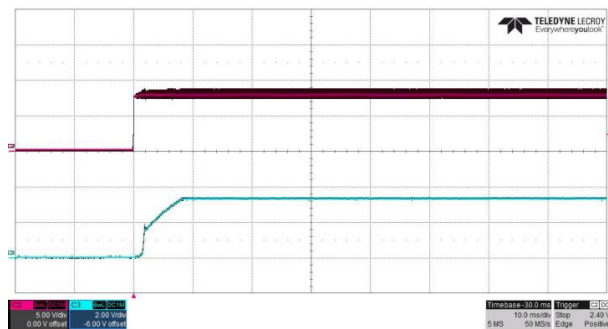
THN 10-3610UIR

Typical Output Ripple and Noise
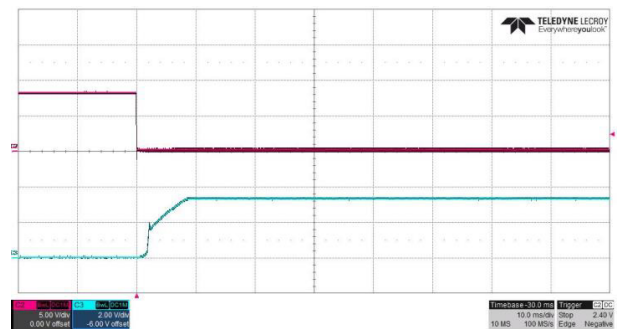(with external capacitor; see datasheet)

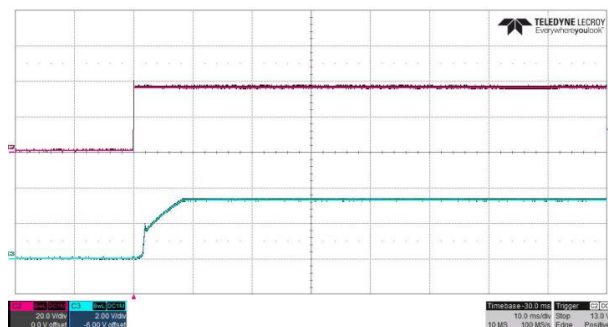Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
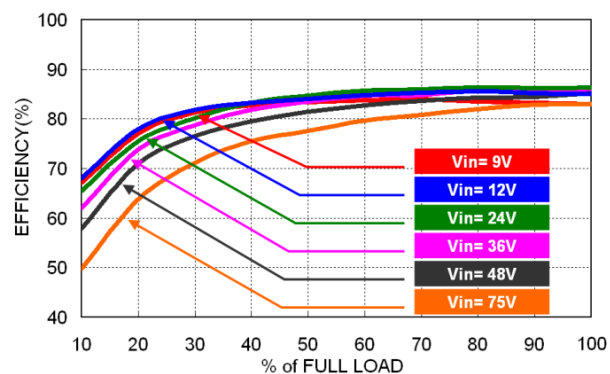Negative remote logic (optional)

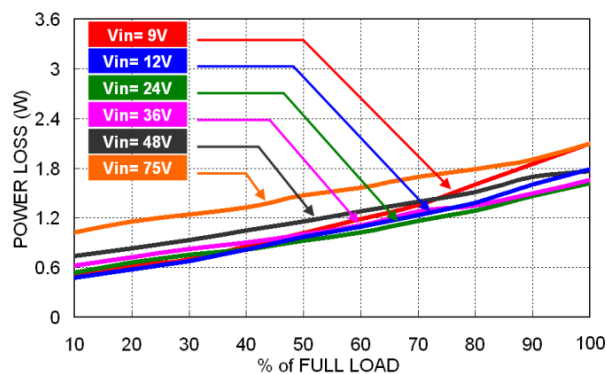Typical Start-Up and Output Rise Characteristic

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

TRACO POWER

THN 10-3611UIR

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature (with optional Heatsinks)

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

TRACO POWER

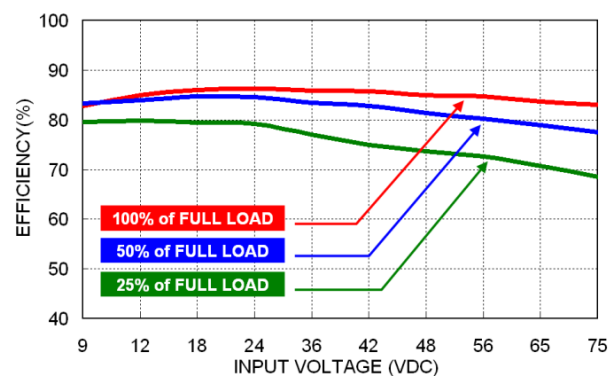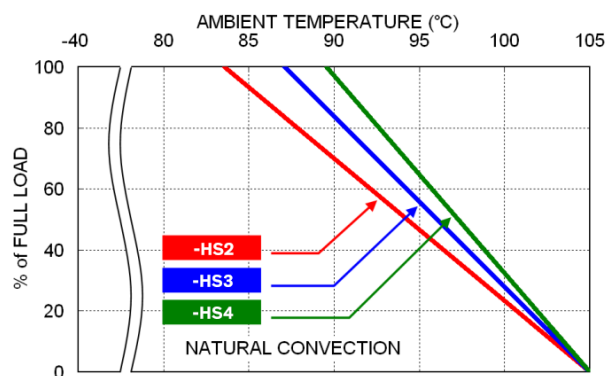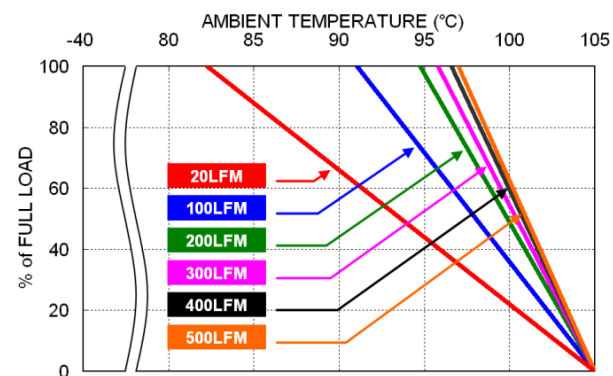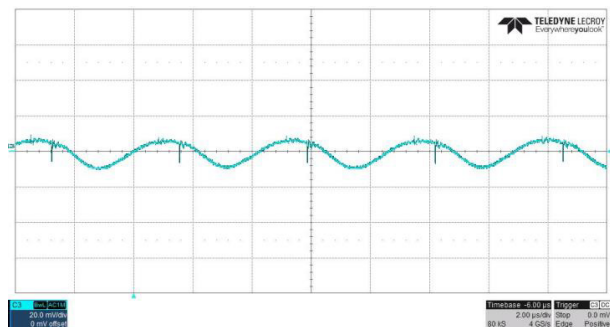### THN 10-3611UIR

Typical Output Ripple and Noise
(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
Negative remote logic (optional)

Typical Start-Up and Output Rise Characteristic

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

THN 10-3612UIR

Efficiency versus Output Load

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

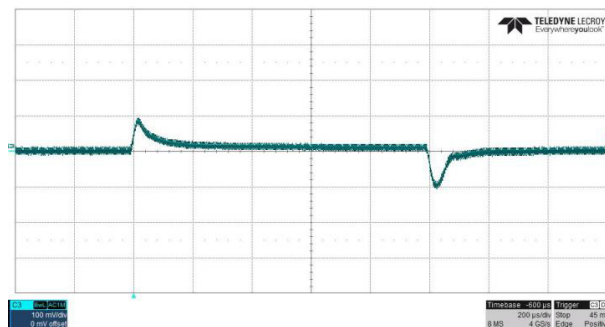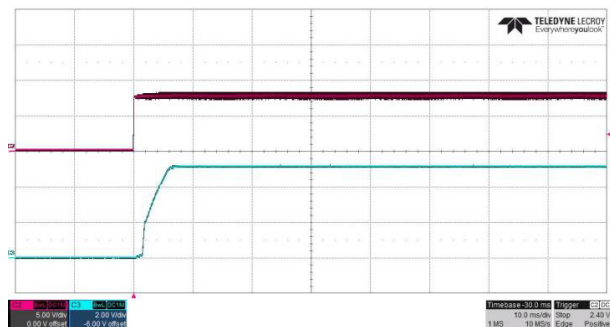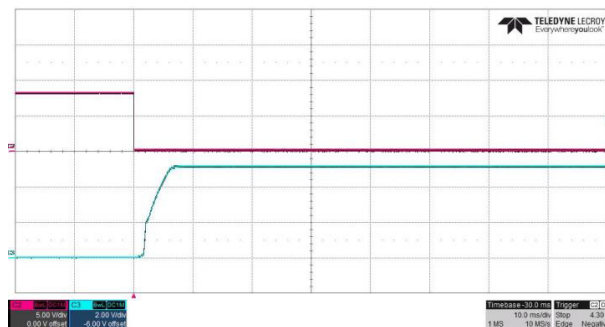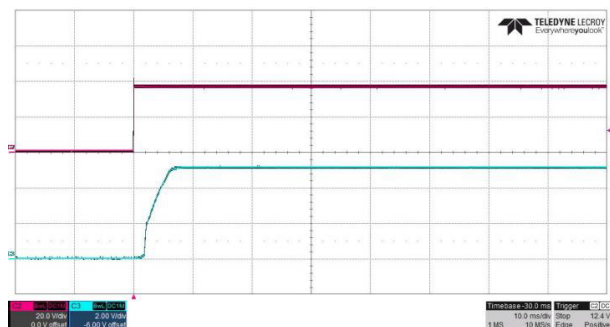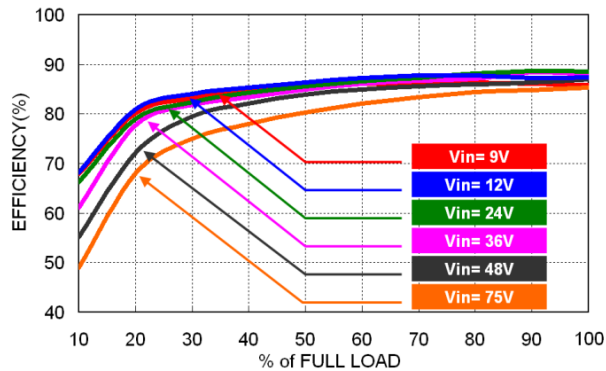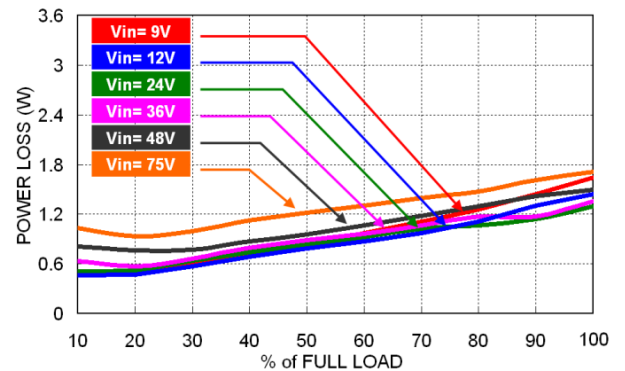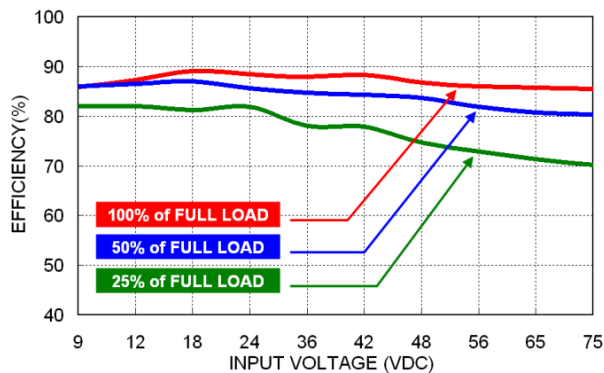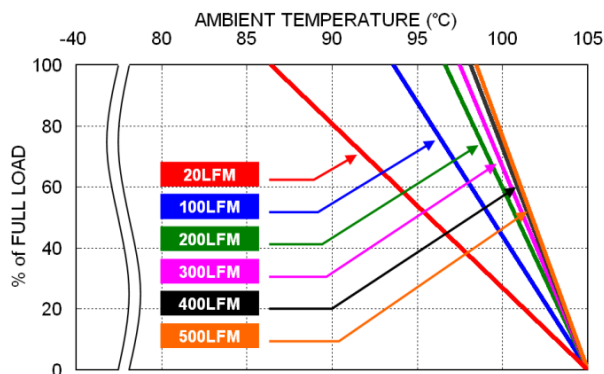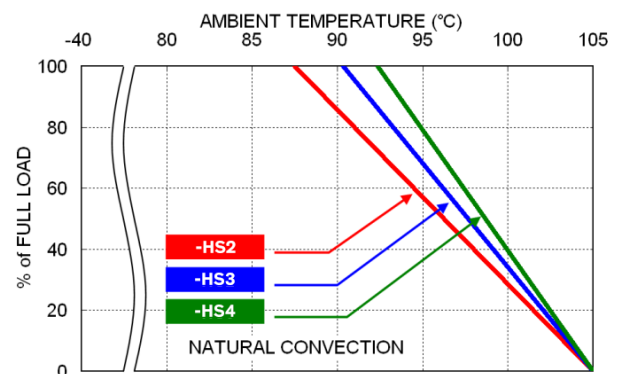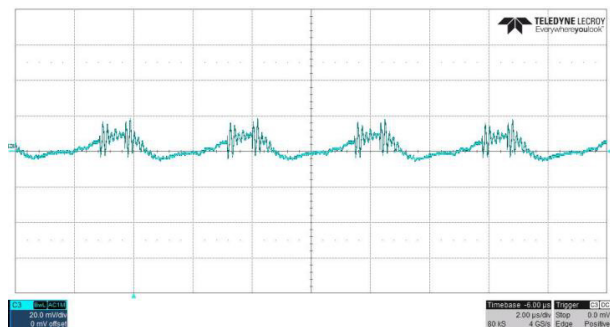Derating Output Load versus Ambient Temperature (with optional Heatsinks)
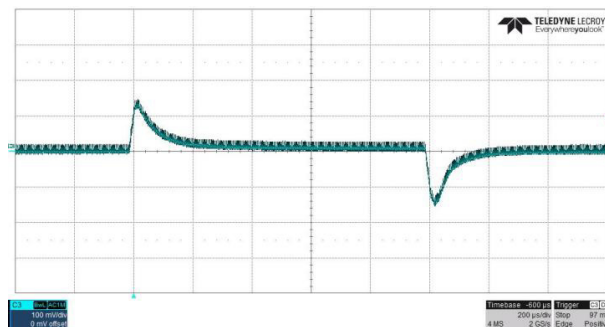

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
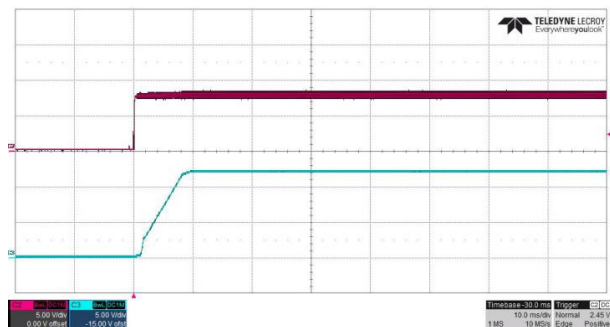
THN 10-3612UIR

Typical Output Ripple and Noise
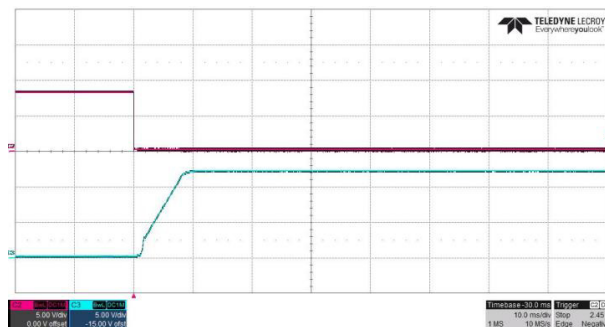(with external capacitor; see datasheet)

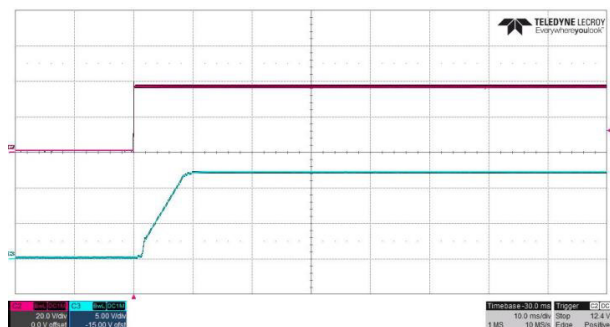Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
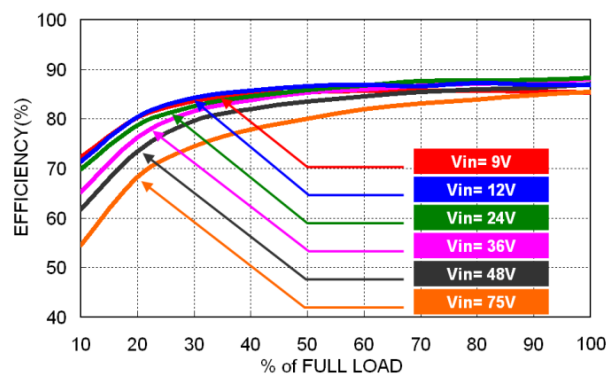Negative remote logic (optional)

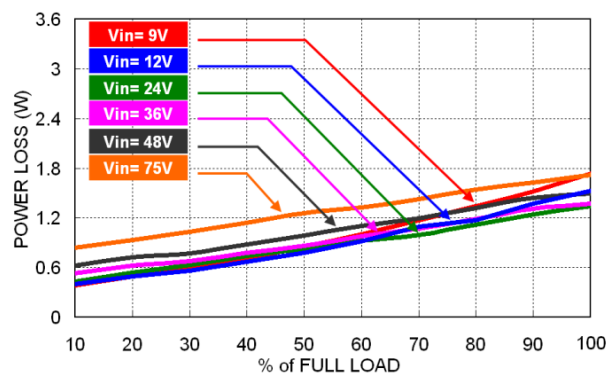Typical Start-Up and Output Rise Characteristic

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

THN 10-3613UIR

Efficiency versus Output Load

EFFICIENCY(%)

% of FULL LOAD

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 36V
Vin= 48V
Vin= 75V

Power Dissipation versus Output Load

POWER LOSS (W)

% of FULL LOAD

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

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

Derating Output Load versus Ambient Temperature (with optional Heatsinks)

AMBIENT TEMPERATURE (°C)

% of FULL LOAD

-HS2
-HS3
-HS4

NATURAL CONVECTION

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

THN 10-3613UIR

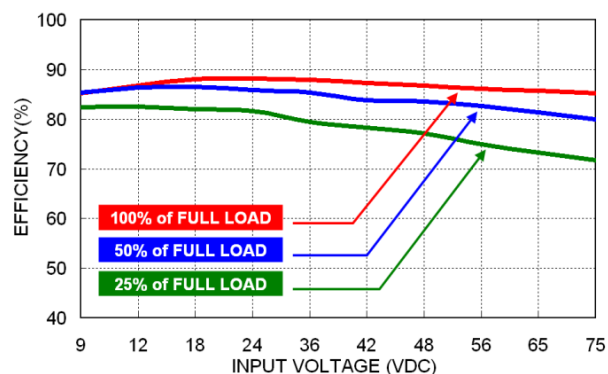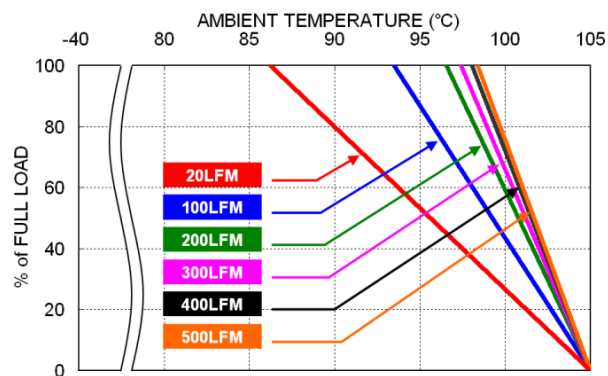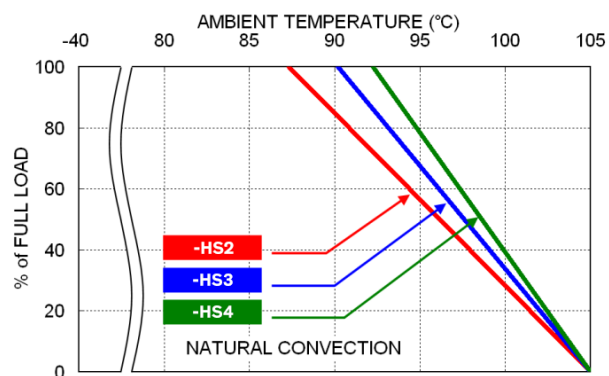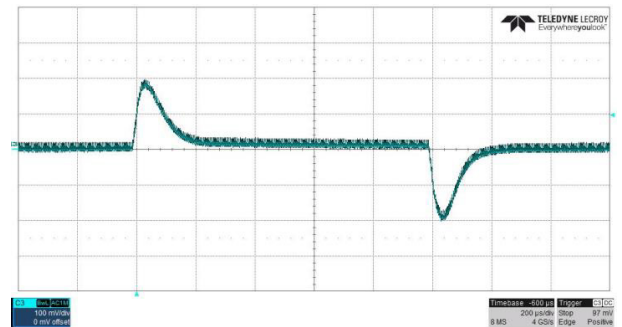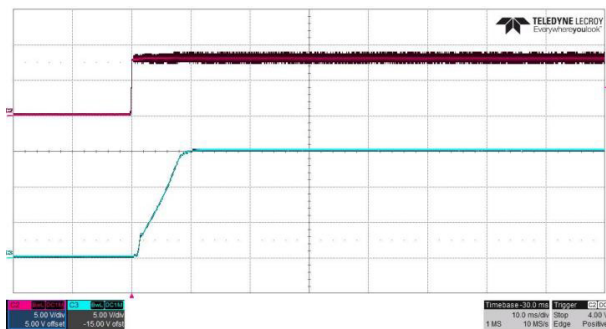Typical Output Ripple and Noise
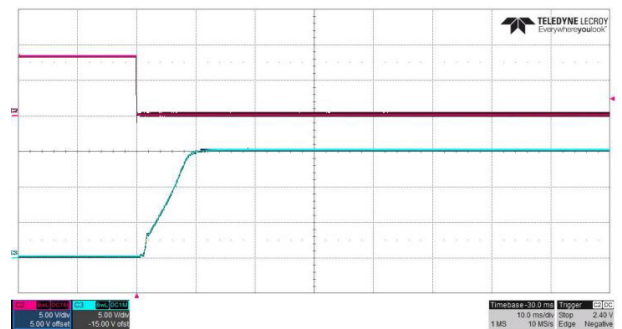(with external capacitor; see datasheet)

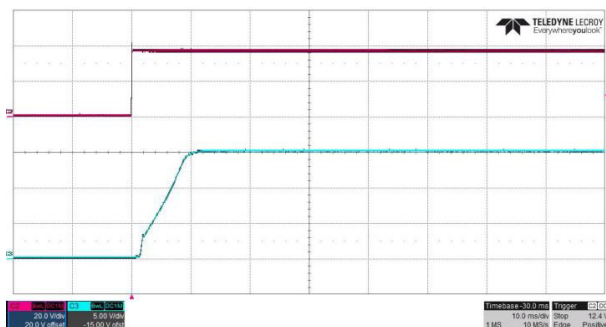Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
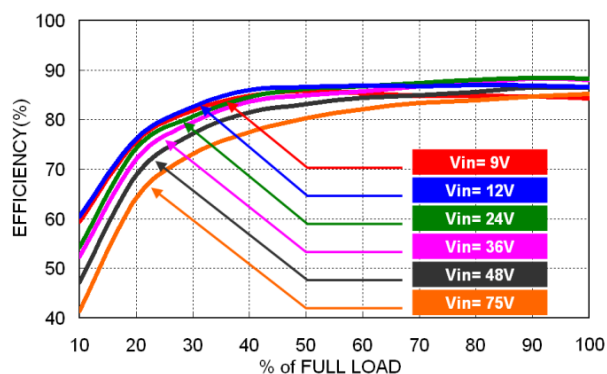Negative remote logic (optional)
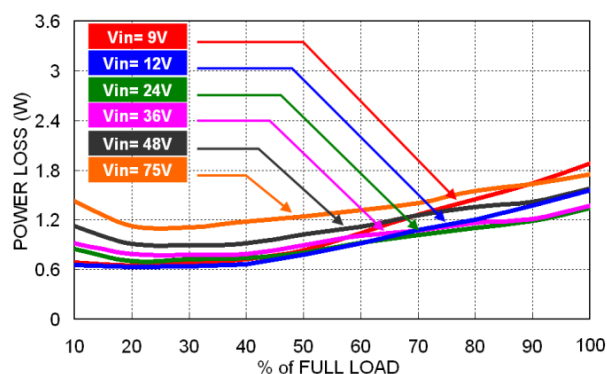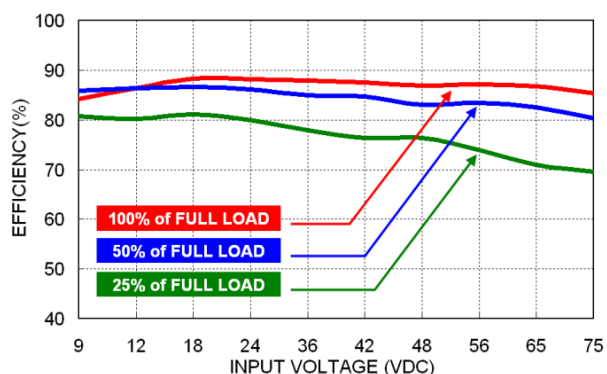
Typical Start-Up and Output Rise Characteristic

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

THN 10-3615UIR

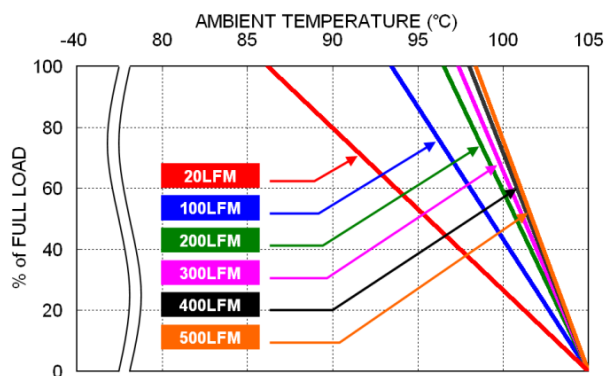### Efficiency versus Output Load
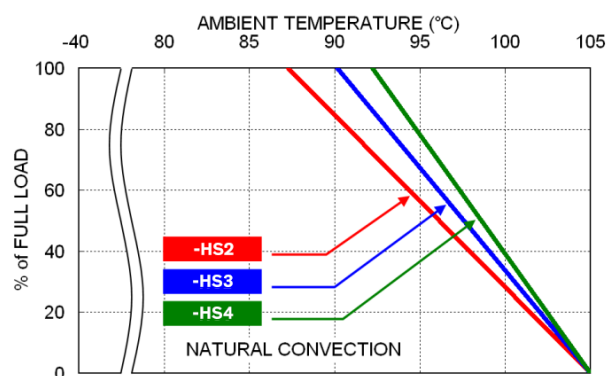

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
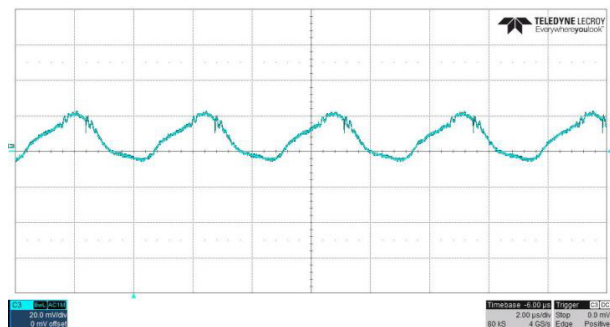

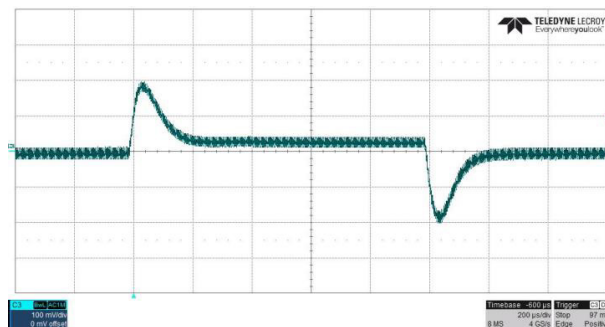### Derating Output Load versus Ambient Temperature (with optional Heatsinks)

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
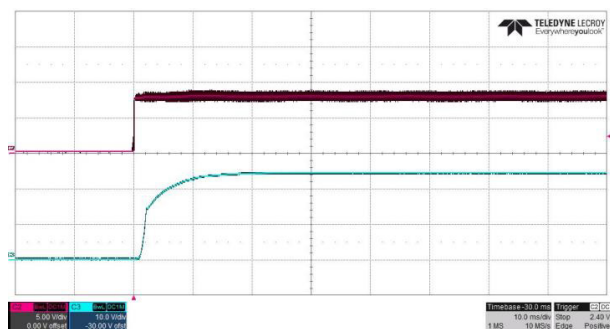
THN 10-3615UIR

Typical Output Ripple and Noise
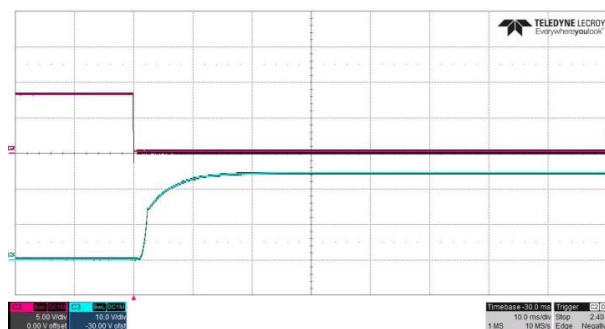(with external capacitor; see datasheet)

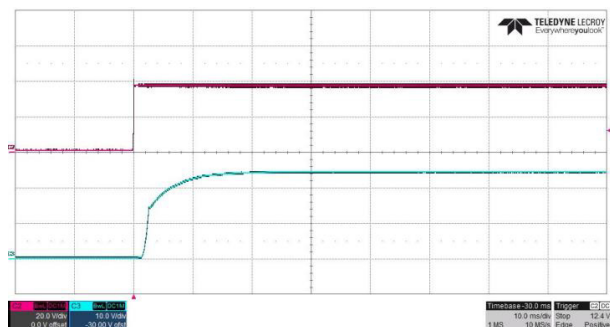Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
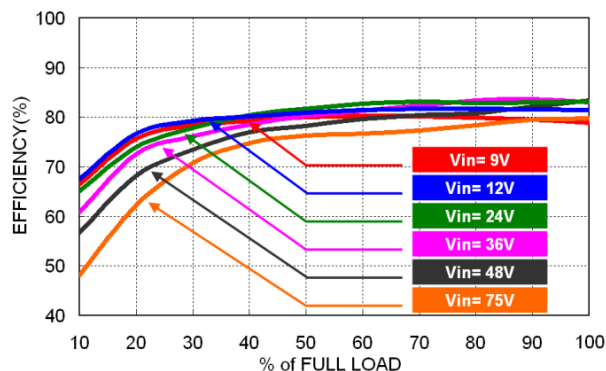Negative remote logic (optional)
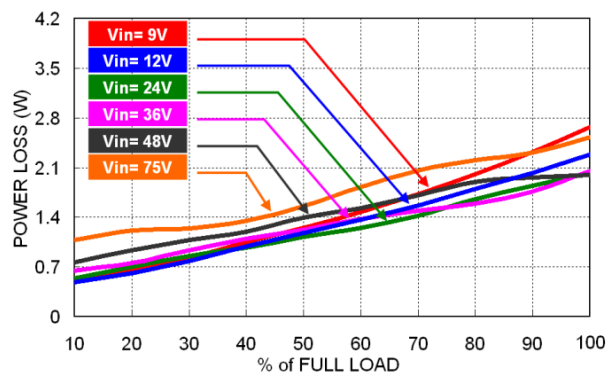
Typical Start-Up and Output Rise Characteristic

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
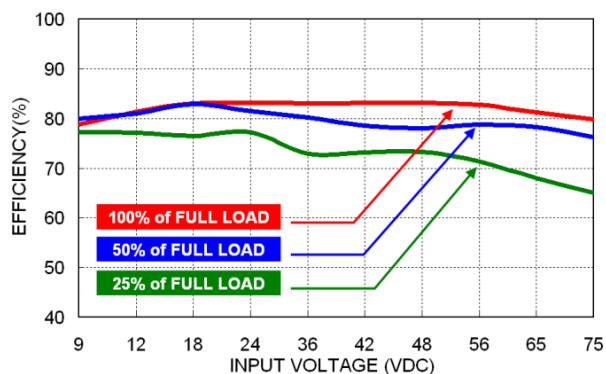
THN 10-3621UIR

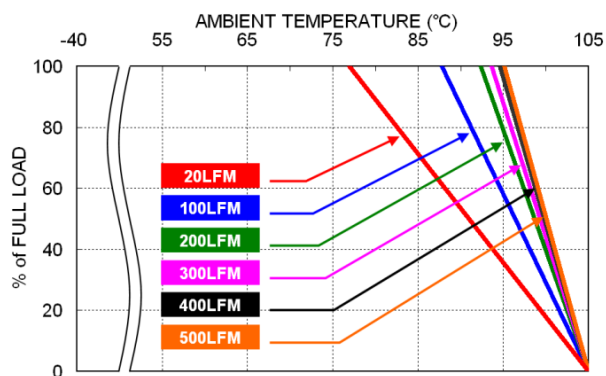Efficiency versus Output Load

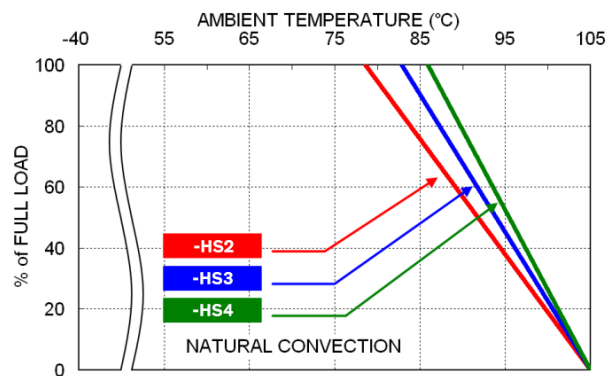
Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

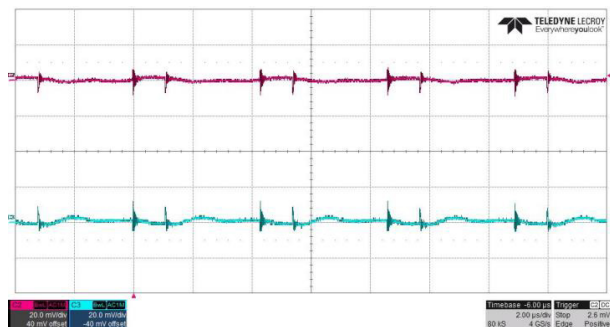Derating Output Load versus Ambient Temperature (with optional Heatsinks)

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
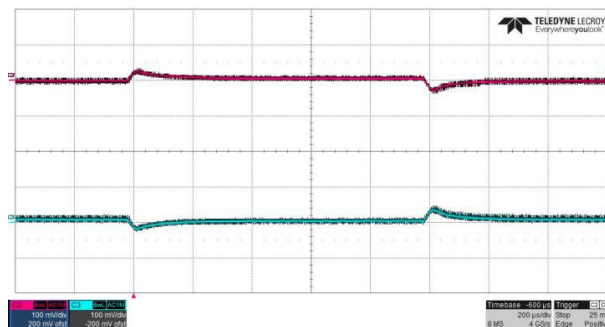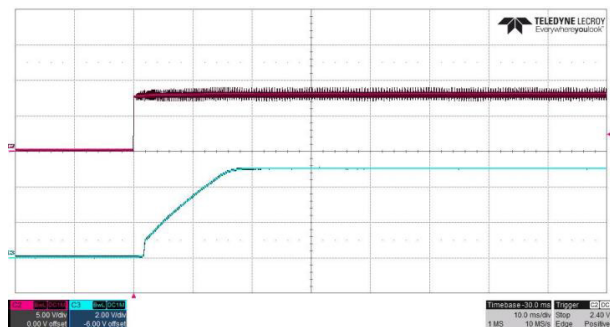
THN 10-3621UIR

Typical Output Ripple and Noise
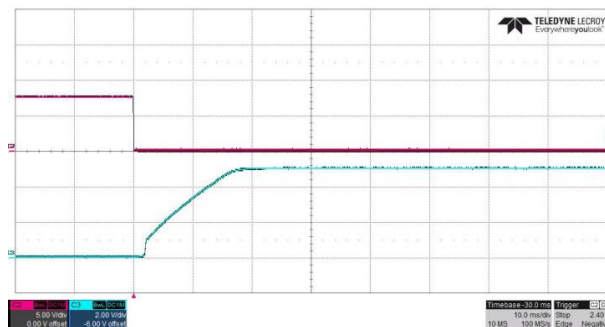(with external capacitor; see datasheet)

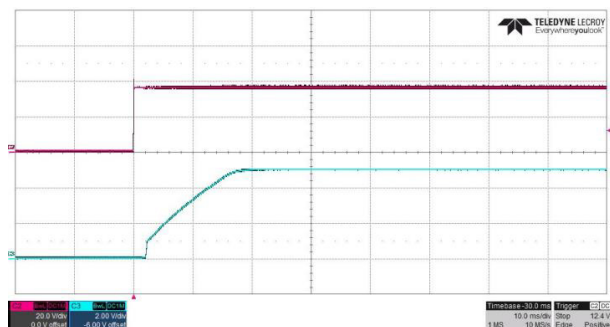Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
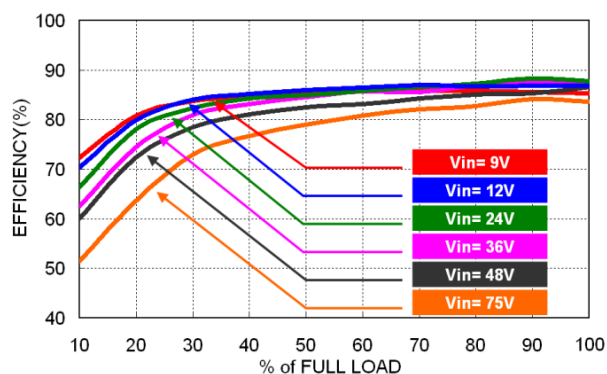Negative remote logic (optional)
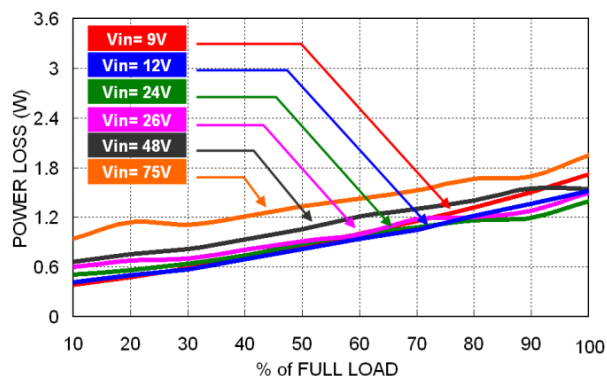
Typical Start-Up and Output Rise Characteristic

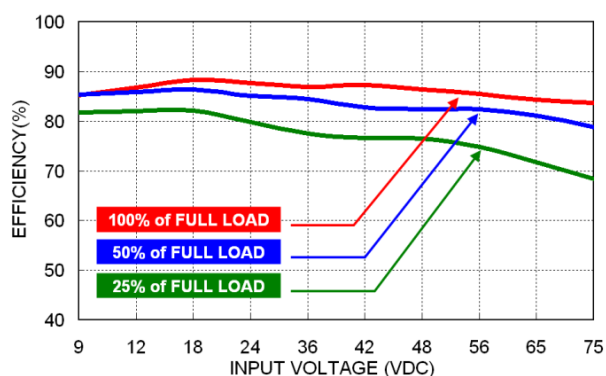All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.

THN 10-3622UIR

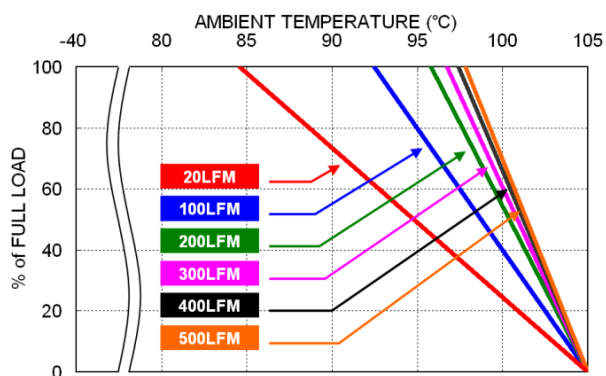### Efficiency versus Output Load
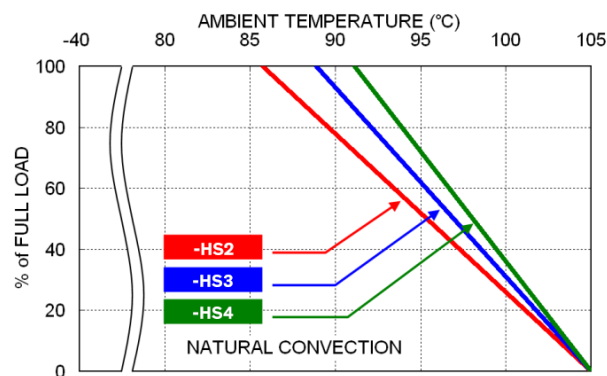

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
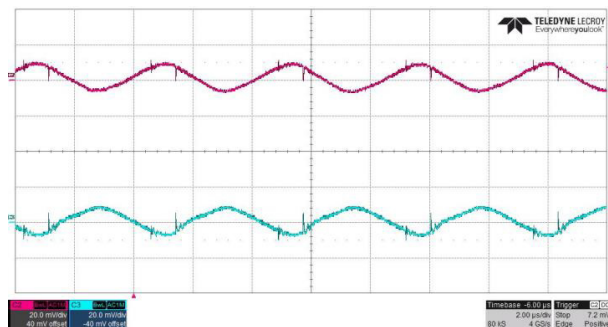

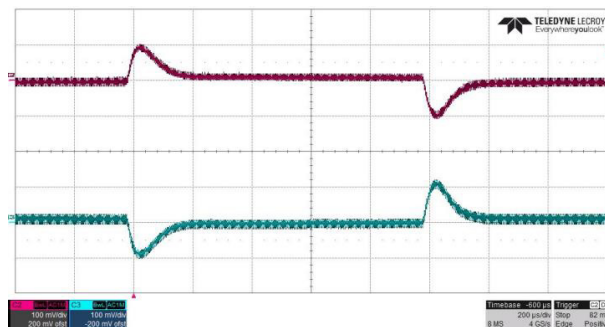### Derating Output Load versus Ambient Temperature (with optional Heatsinks)

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
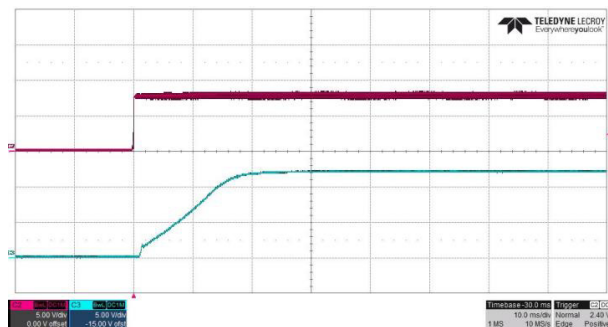
THN 10-3622UIR

Typical Output Ripple and Noise
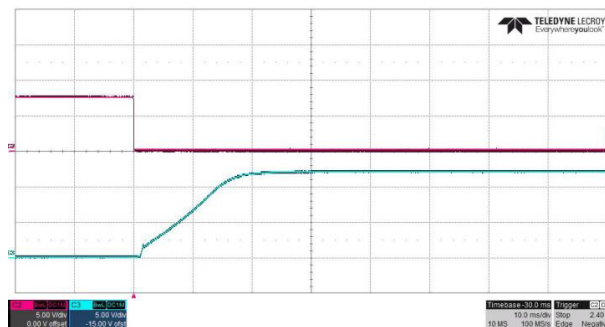(with external capacitor; see datasheet)

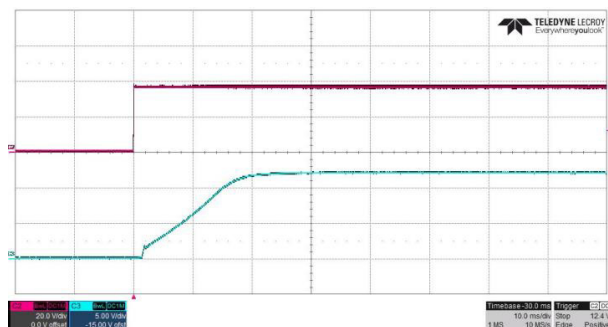Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
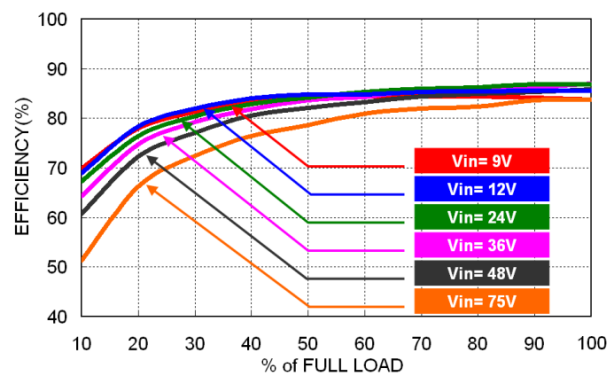Negative remote logic (optional)
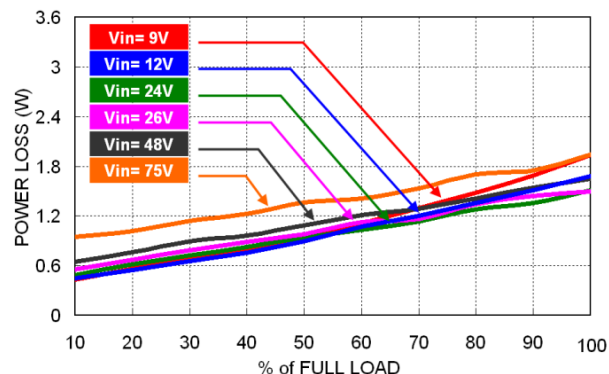
Typical Start-Up and Output Rise Characteristic

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
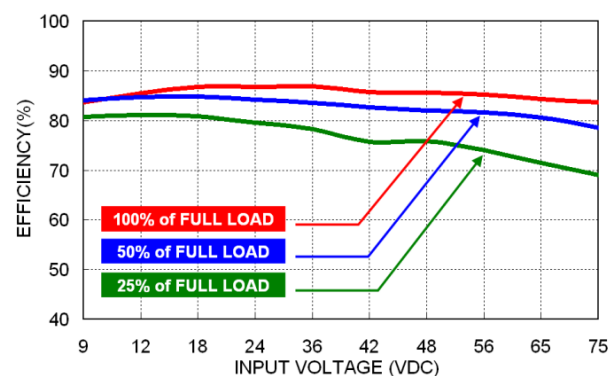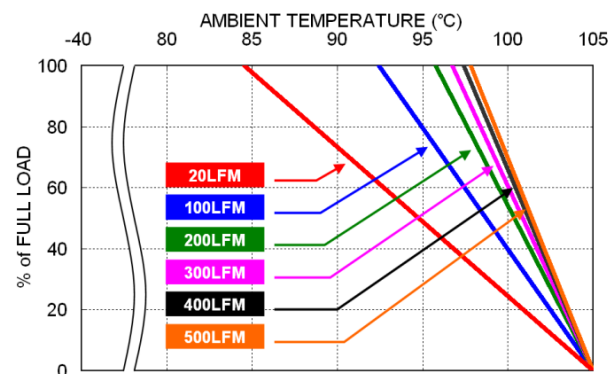
THN 10-3623UIR

Efficiency versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
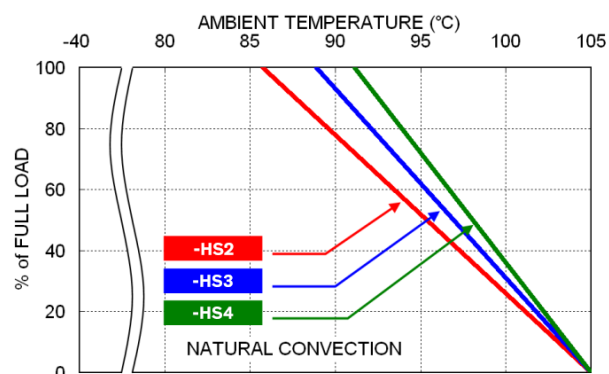Vin= 36V
Vin= 48V
Vin= 75V

Power Dissipation versus Output Load

Vin= 9V
Vin= 12V
Vin= 24V
Vin= 26V
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

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

Derating Output Load versus Ambient Temperature (with optional Heatsinks)
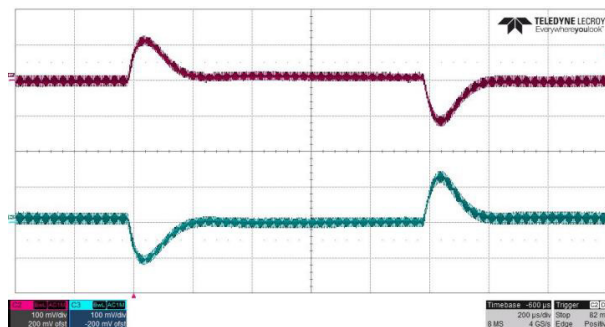

-HS2
-HS3
-HS4

NATURAL CONVECTION

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
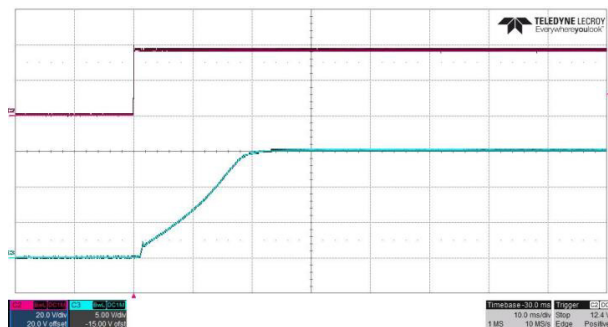
THN 10-3623UIR

Typical Output Ripple and Noise
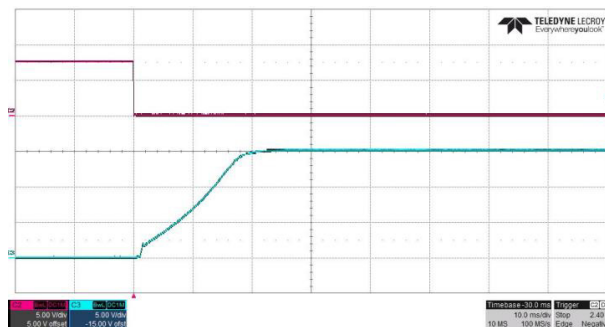(with external capacitor; see datasheet)

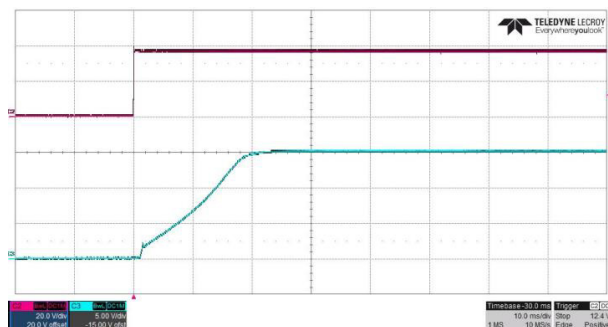Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
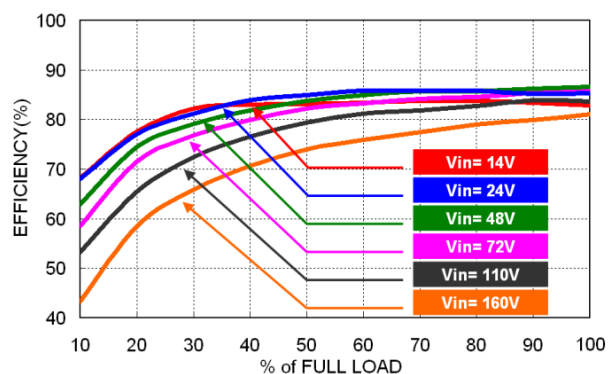Negative remote logic (optional)

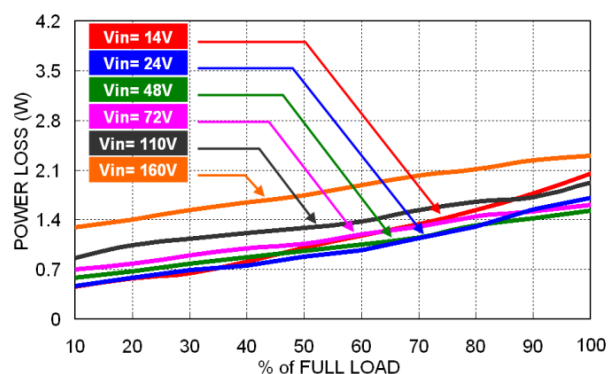Typical Start-Up and Output Rise Characteristic

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

TRACO POWER

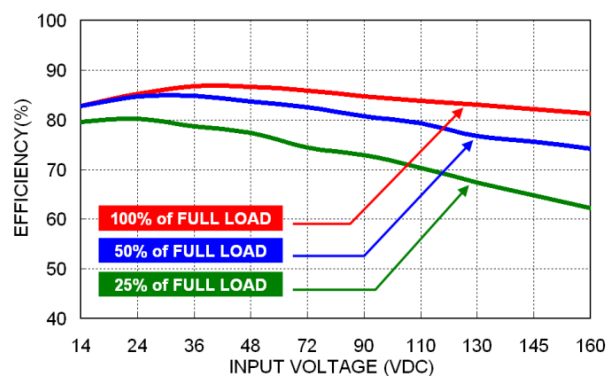## THN 10-7210UIR

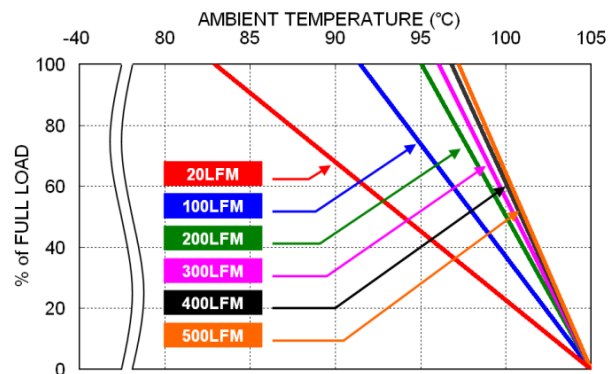### Efficiency versus Output Load

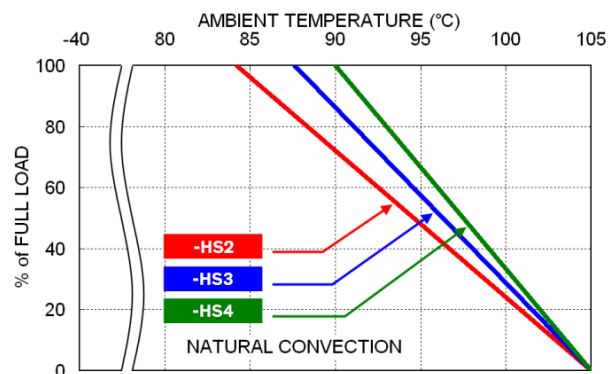### Power Dissipation versus Output Load

Efficiency versus Input Voltage
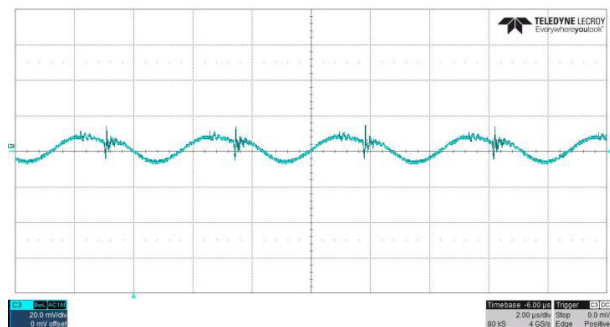

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature (with optional Heatsinks)

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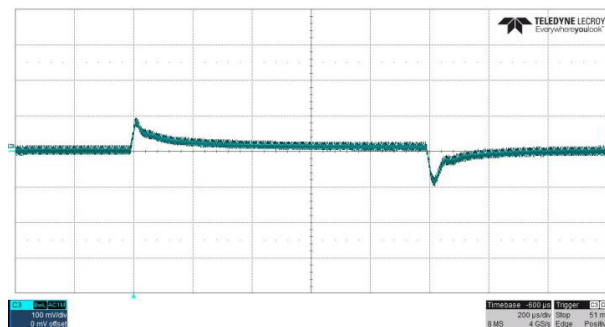
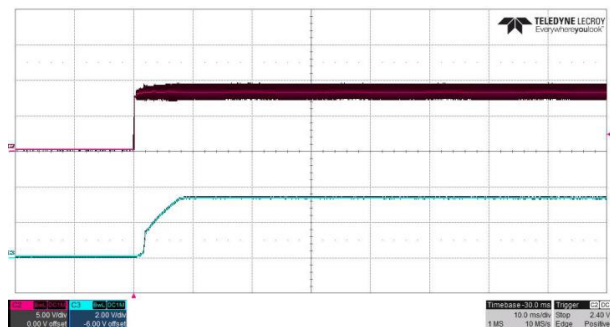**TRACO POWER**

THN 10-7210UIR

Typical Output Ripple and Noise
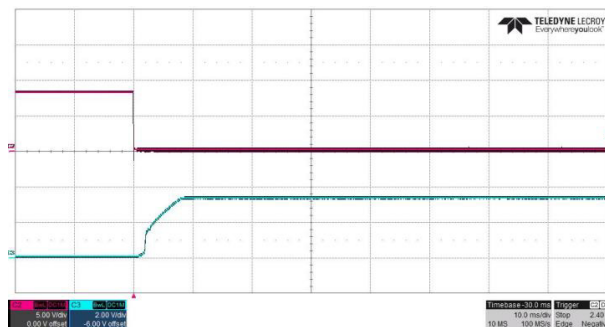(with external capacitor; see datasheet)

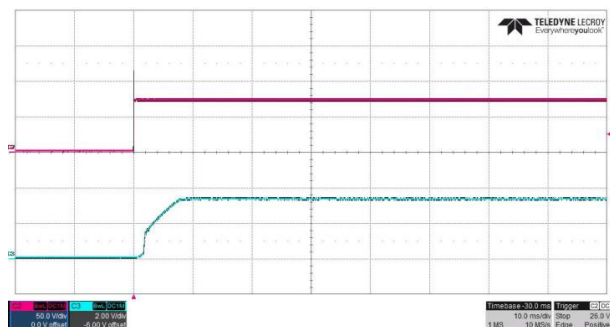
Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
Negative remote logic (optional)
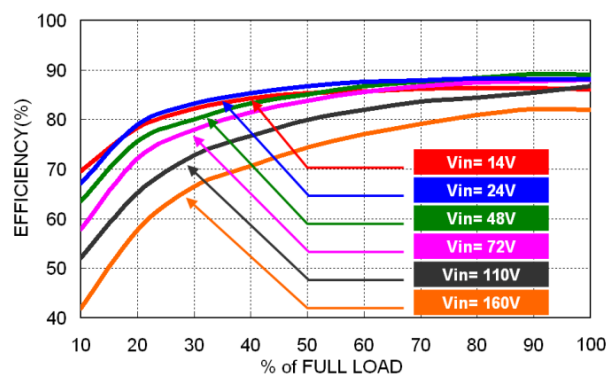

Typical Start-Up and Output Rise Characteristic

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
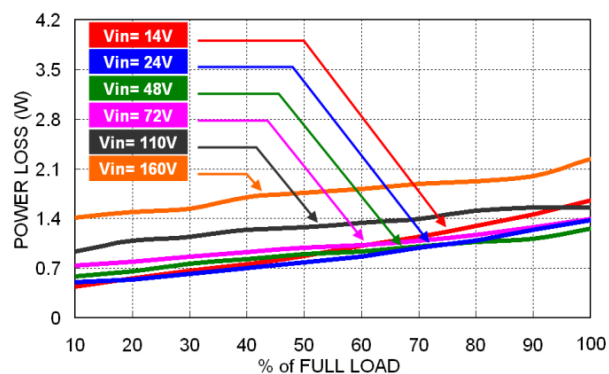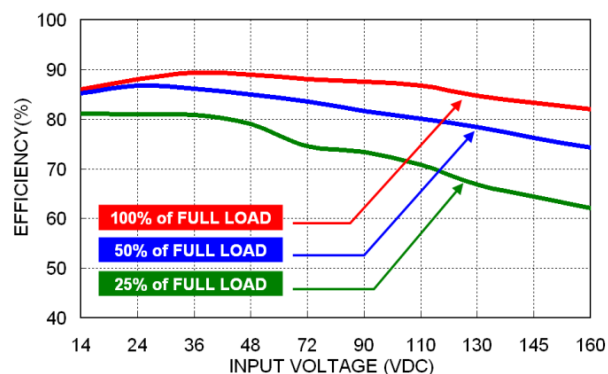
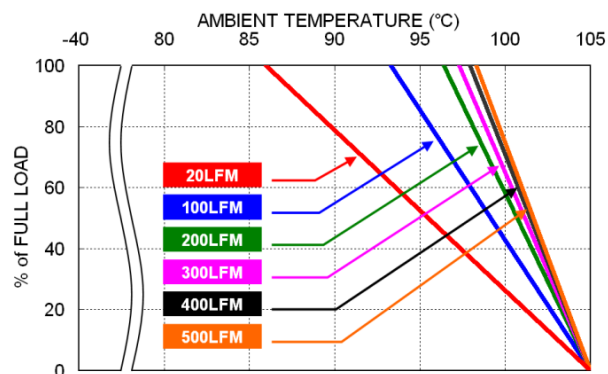## THN 10-7211UIR

Efficiency versus Output Load
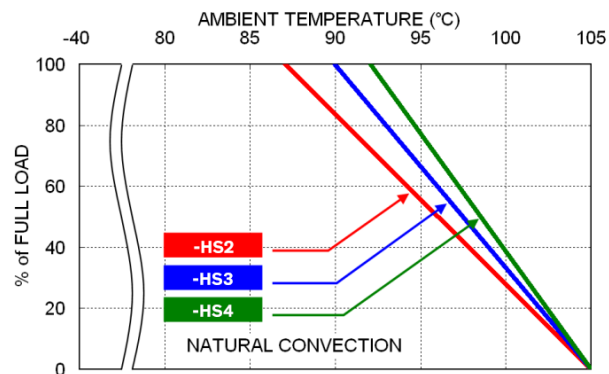

Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
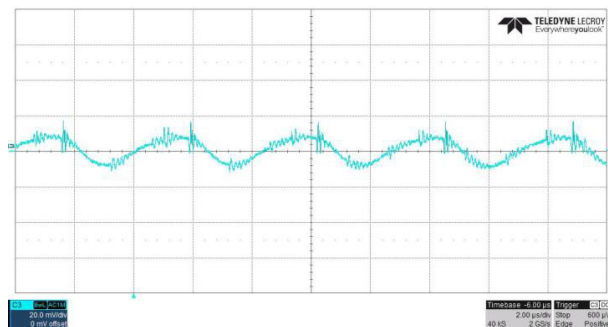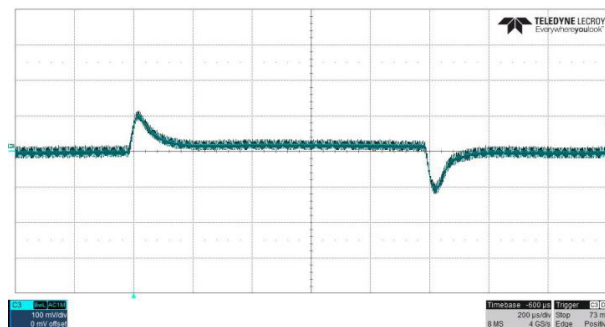

Derating Output Load versus Ambient Temperature (with optional Heatsinks)

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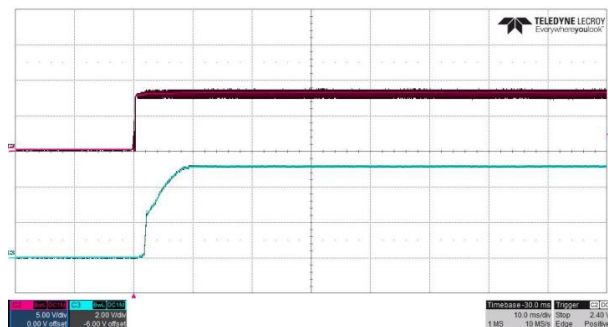
TRACO POWER

THN 10-7211UIR

Typical Output Ripple and Noise
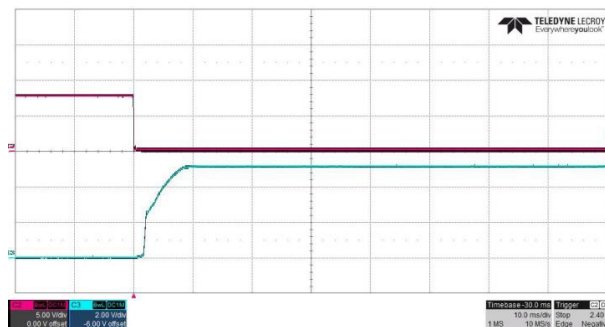(with external capacitor; see datasheet)

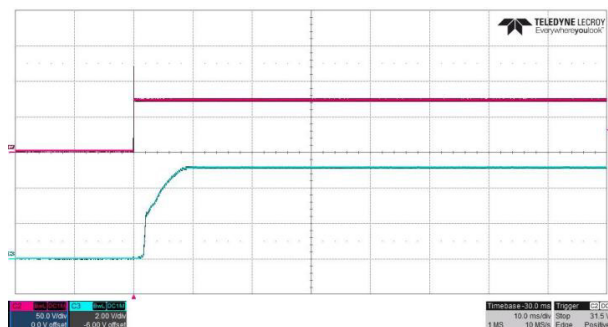
Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
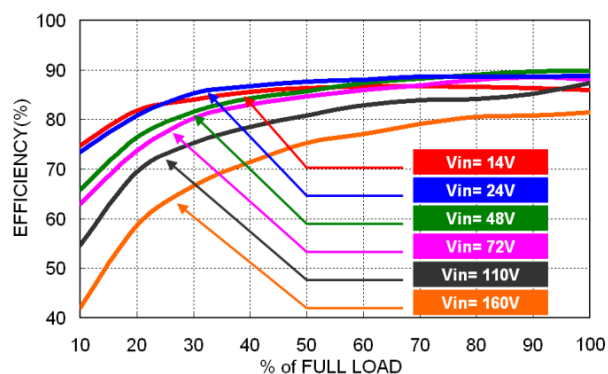Negative remote logic (optional)

Typical Start-Up and Output Rise Characteristic

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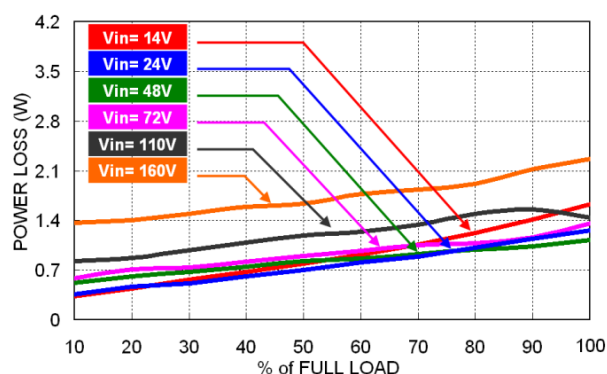
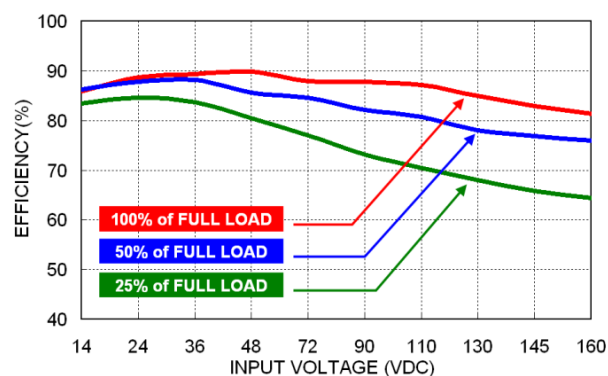**TRACO POWER**

THN 10-7212UIR
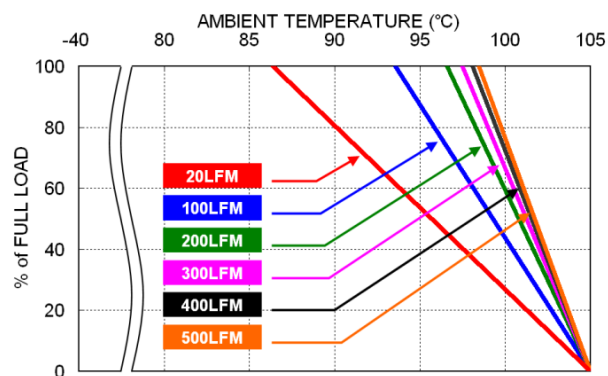
Efficiency versus Output Load

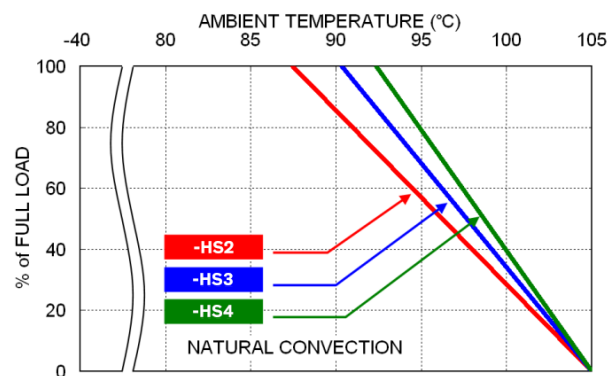Power Dissipation versus Output Load

Efficiency versus Input Voltage
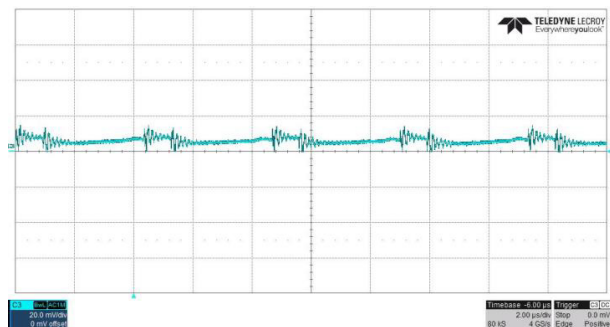

Derating Output Load versus Ambient Temperature

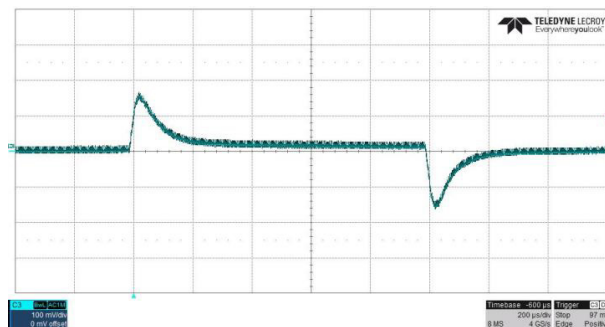Derating Output Load versus Ambient Temperature (with optional Heatsinks)

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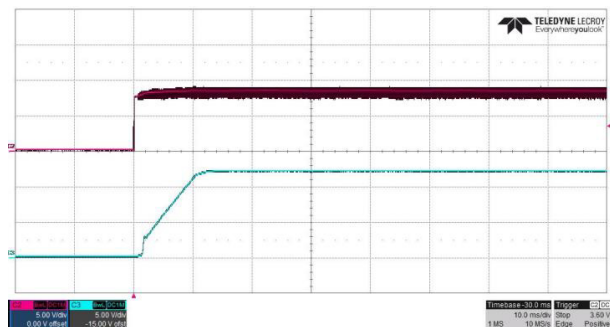
TRACO POWER

THN 10-7212UIR

Typical Output Ripple and Noise
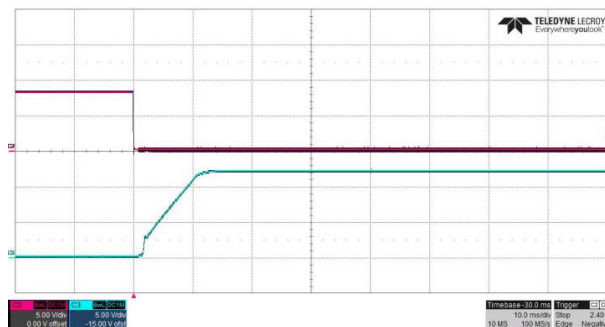(with external capacitor; see datasheet)

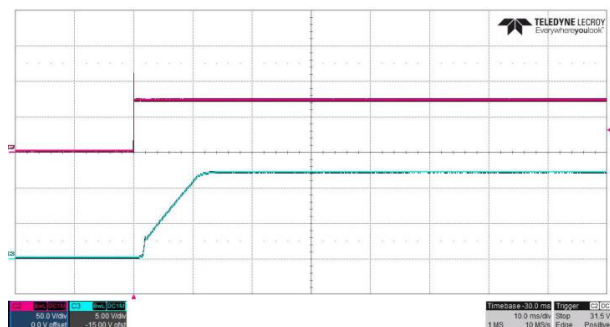
Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
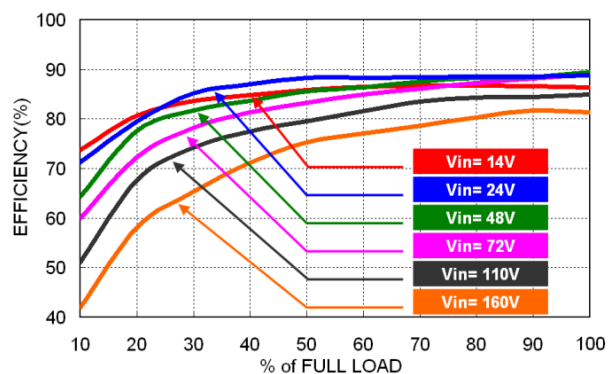Negative remote logic (optional)
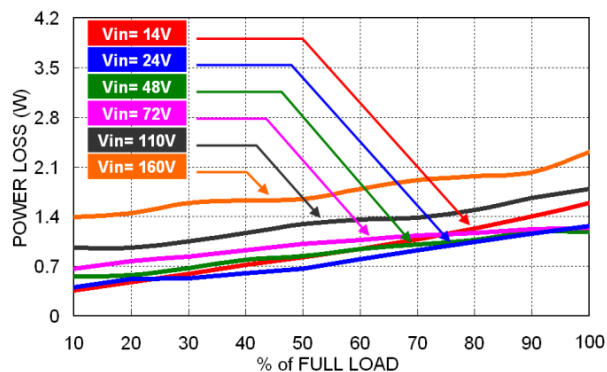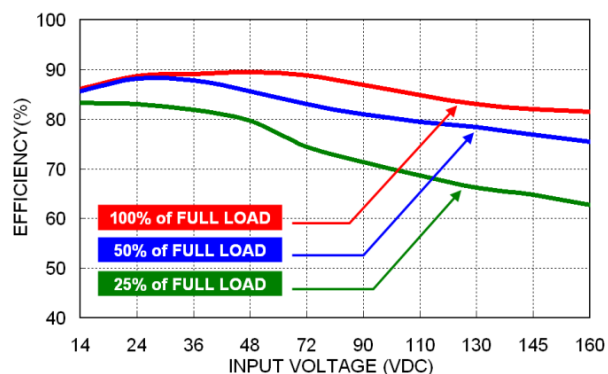

Typical Start-Up and Output Rise Characteristic

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

TRACO POWER

THN 10-7213UIR

Efficiency versus Output Load
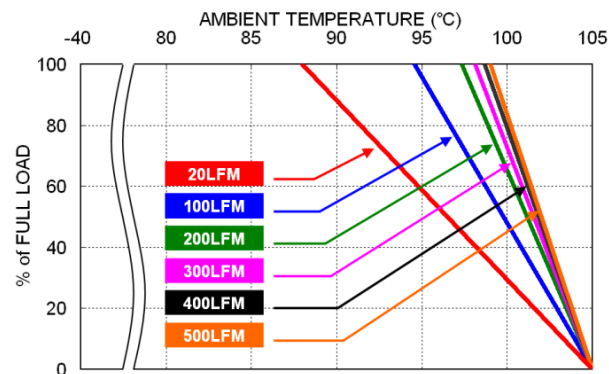

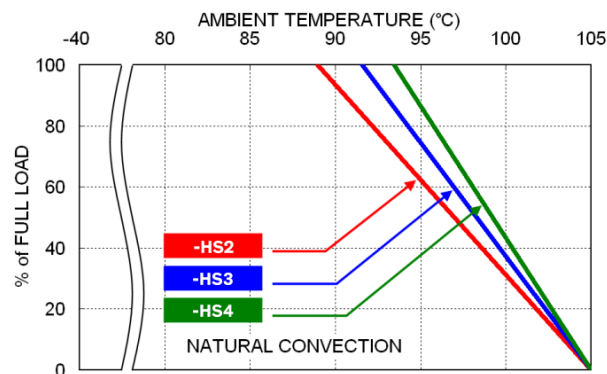### Power Dissipation versus Output Load

Efficiency versus Input Voltage
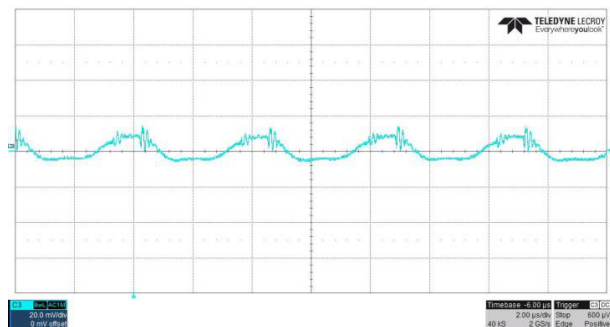

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature (with optional Heatsinks)

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

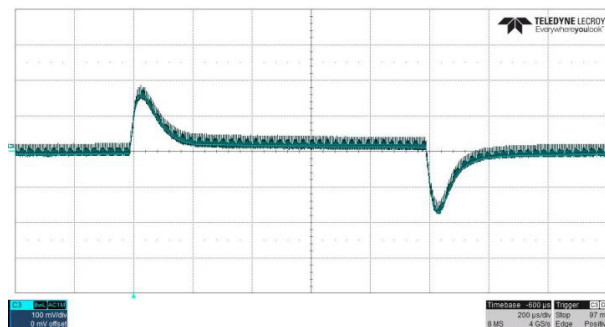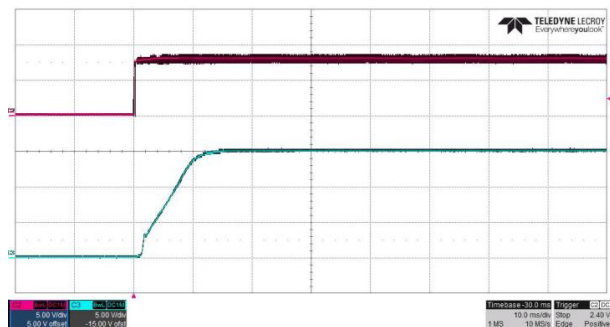## THN 10-7213UIR

Typical Output Ripple and Noise
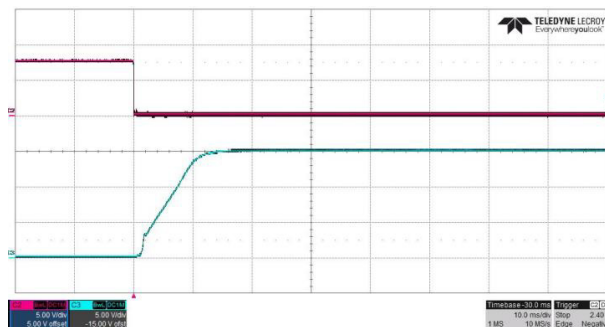(with external capacitor; see datasheet)

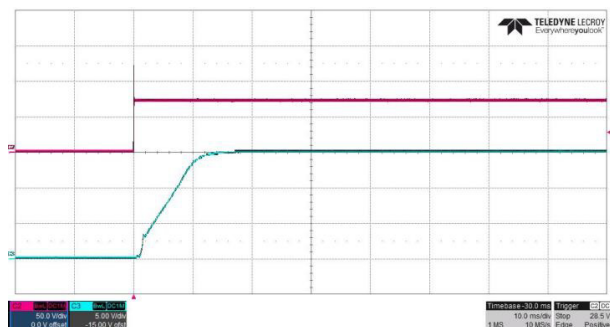Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
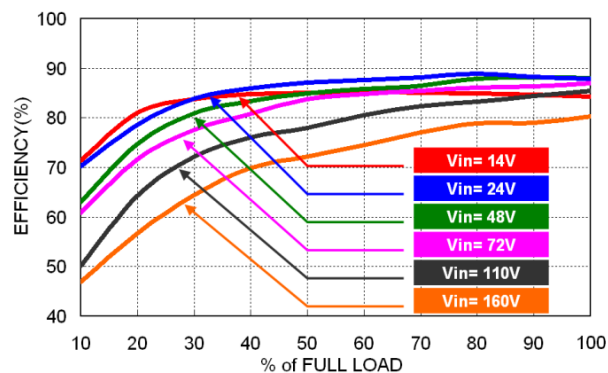Negative remote logic (optional)
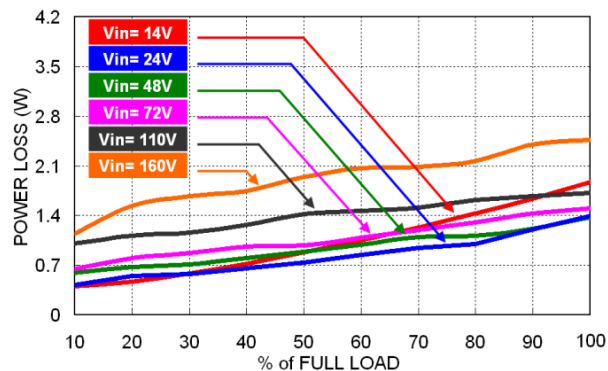
Typical Start-Up and Output Rise Characteristic

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
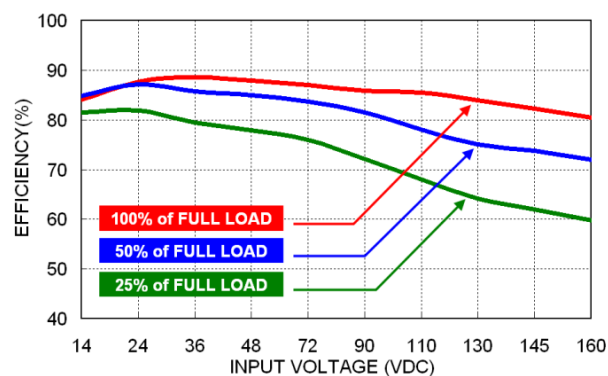
THN 10-7215UIR

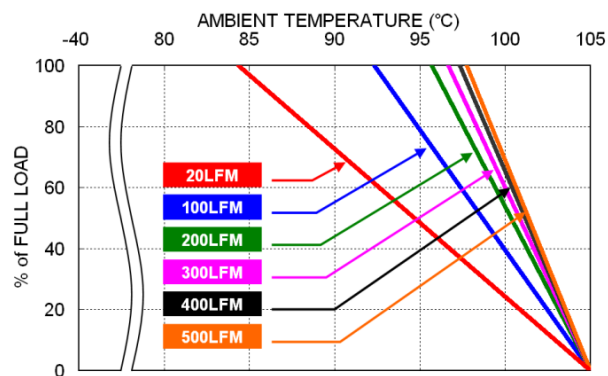Efficiency versus Output Load

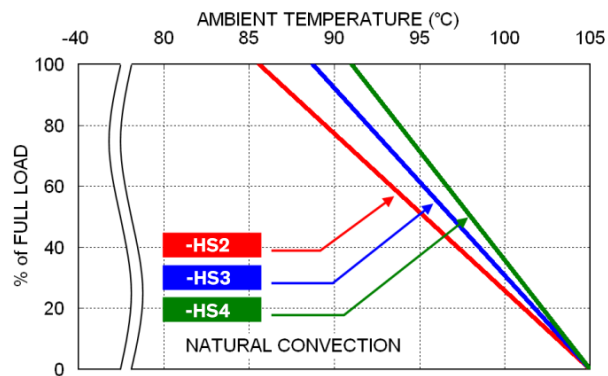
Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
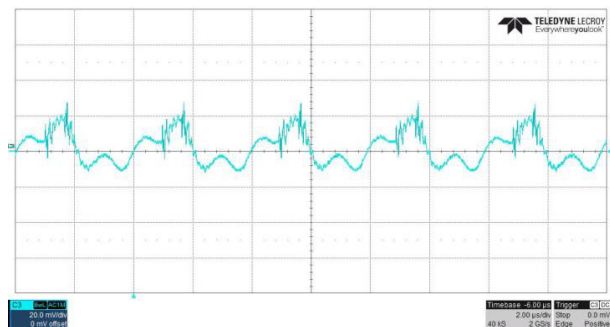

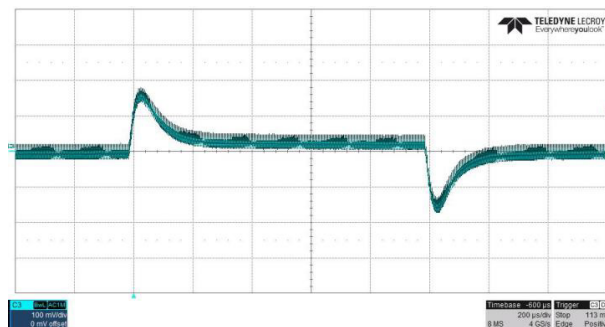Derating Output Load versus Ambient Temperature (with optional Heatsinks)

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
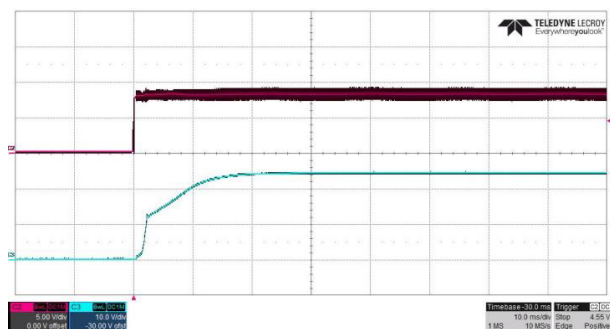
THN 10-7215UIR

Typical Output Ripple and Noise
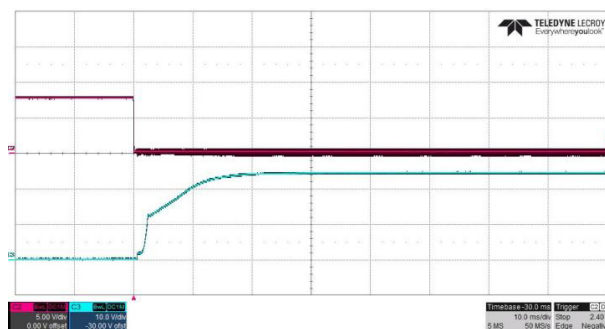(with external capacitor; see datasheet)

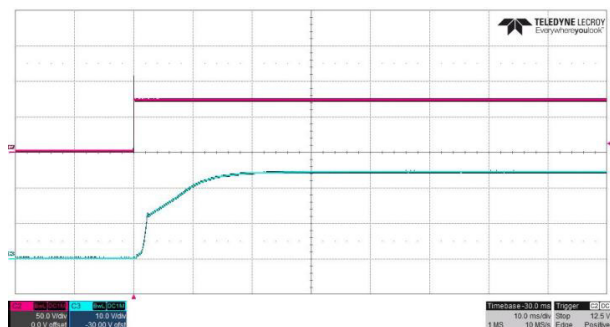Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
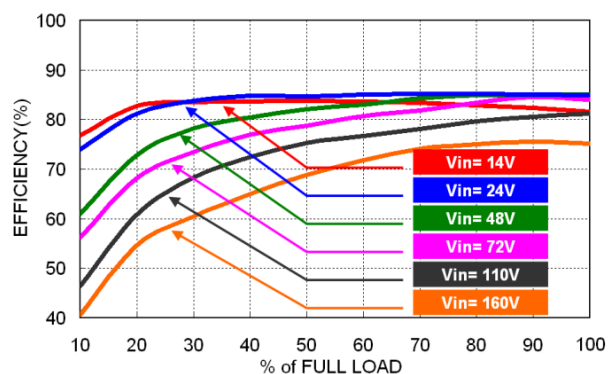Negative remote logic (optional)

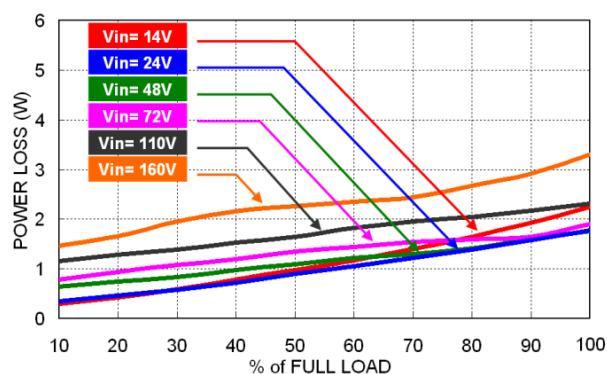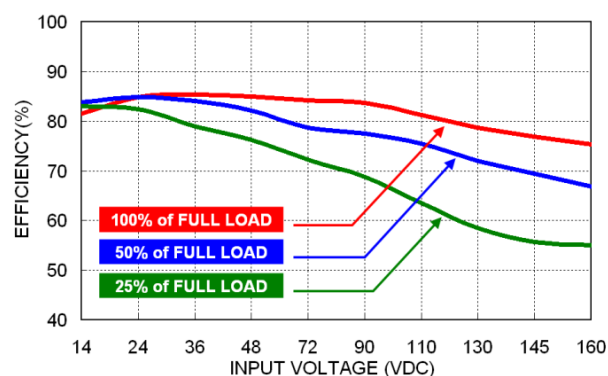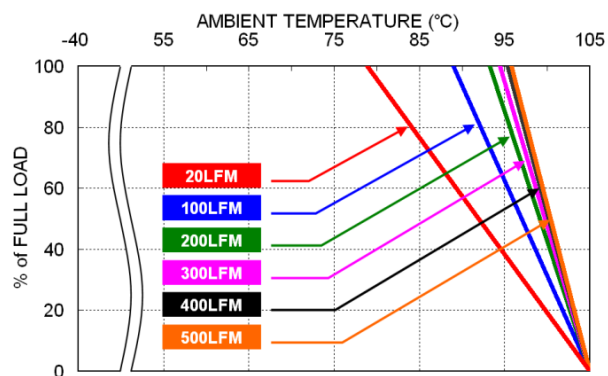Typical Start-Up and Output Rise Characteristic

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

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Efficiency versus Output Load

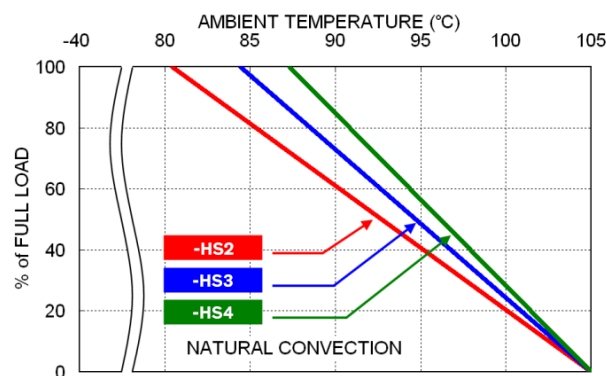### Power Dissipation versus Output Load

Efficiency versus Input Voltage

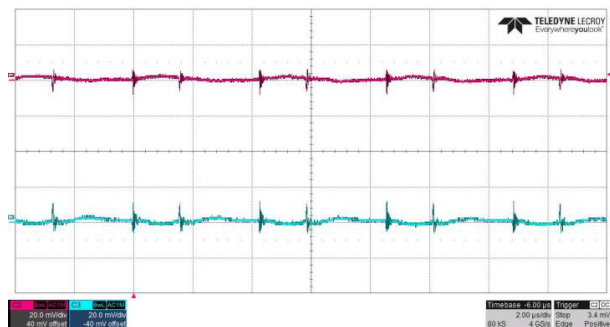### Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature (with optional Heatsinks)

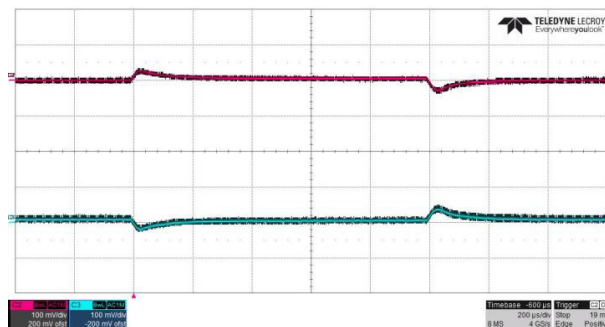All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
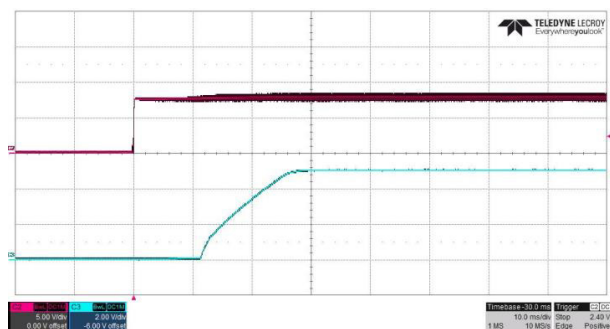
THN 10-7221UIR

Typical Output Ripple and Noise
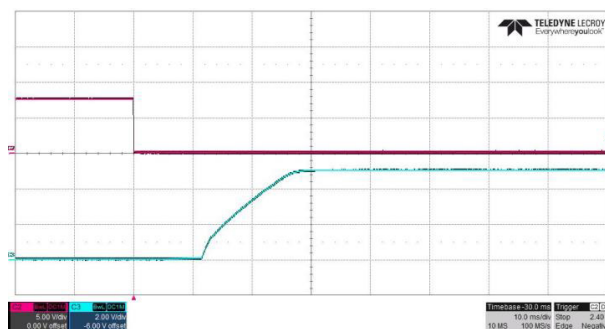(with external capacitor; see datasheet)

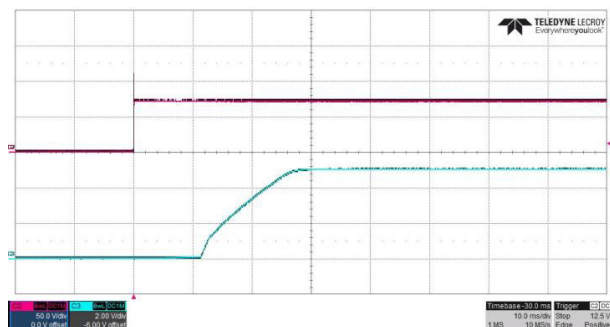Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
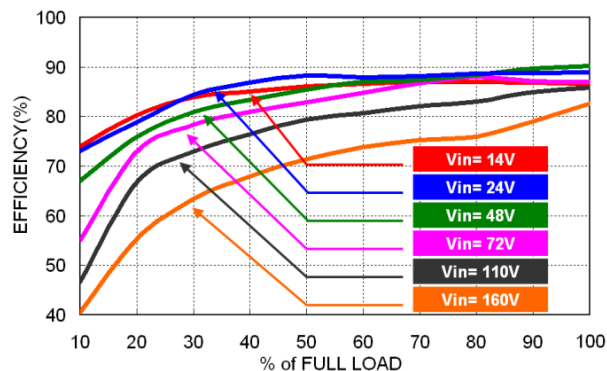Negative remote logic (optional)
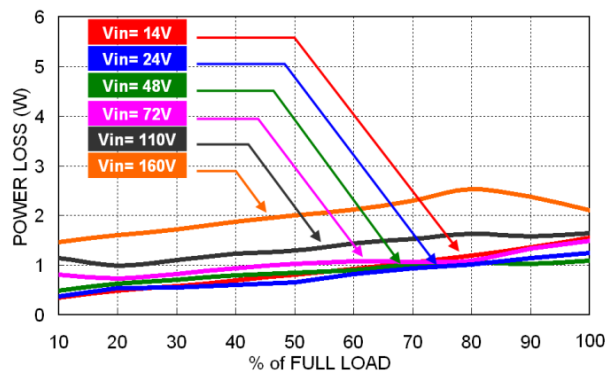
Typical Start-Up and Output Rise Characteristic

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
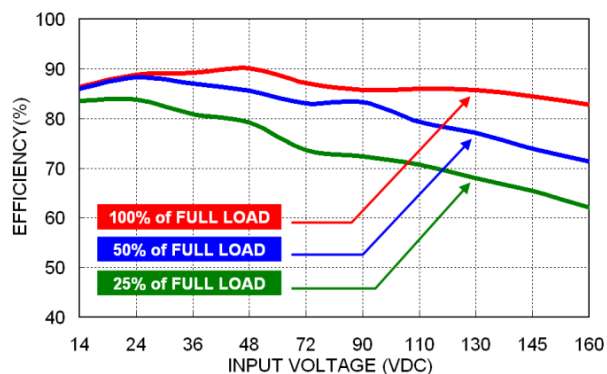
THN 10-7222UIR

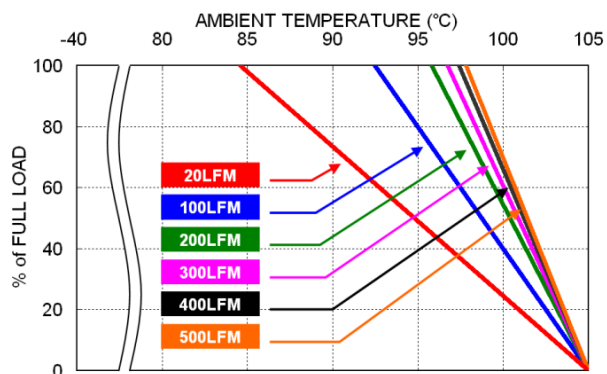Efficiency versus Output Load

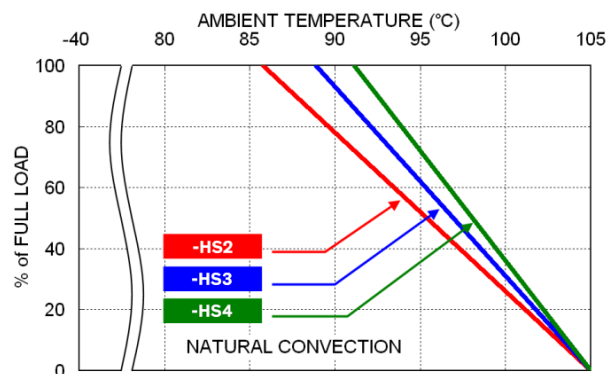
Power Dissipation versus Output Load

Efficiency versus Input Voltage

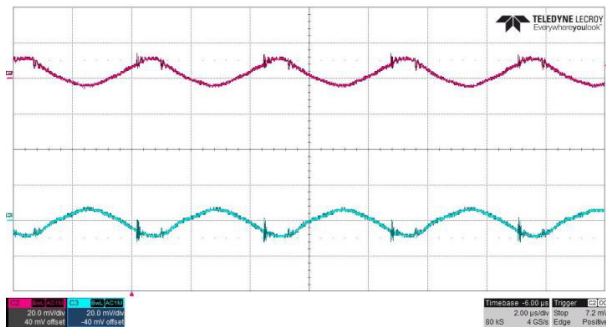Derating Output Load versus Ambient Temperature

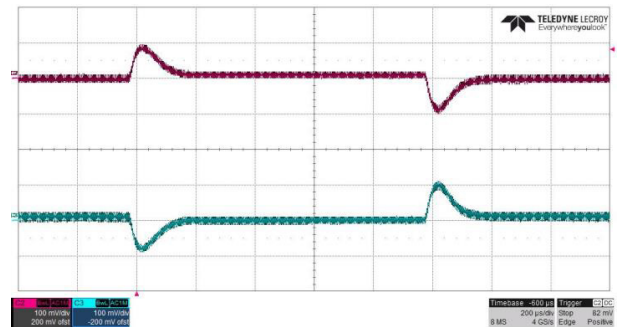Derating Output Load versus Ambient Temperature (with optional Heatsinks)

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
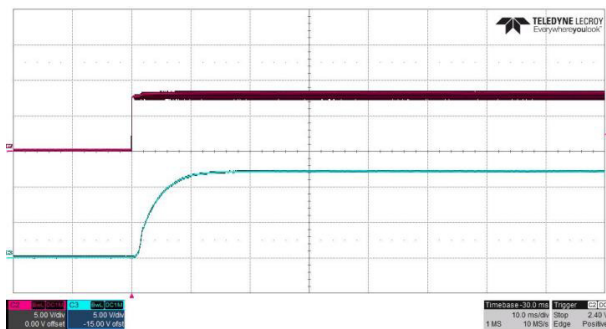
THN 10-7222UIR

Typical Output Ripple and Noise
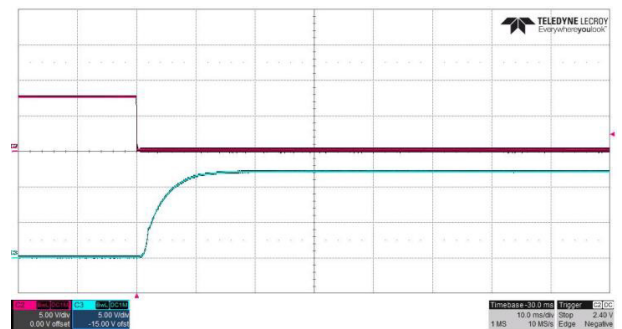(with external capacitor; see datasheet)

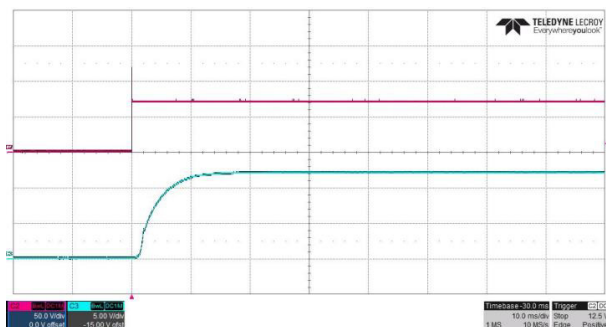Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
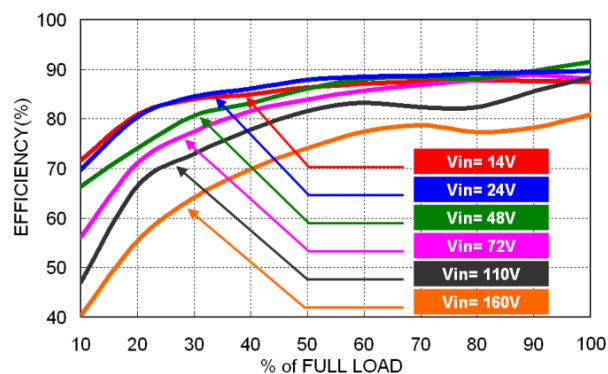Negative remote logic (optional)

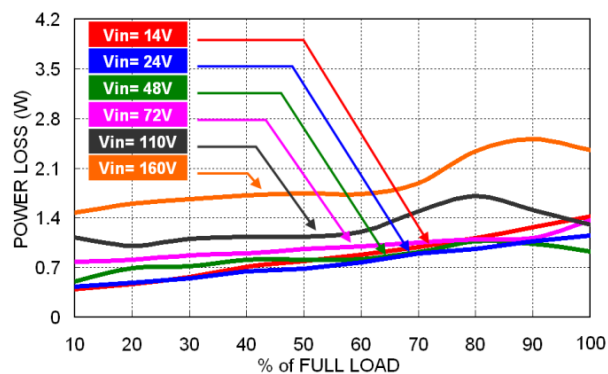Typical Start-Up and Output Rise Characteristic
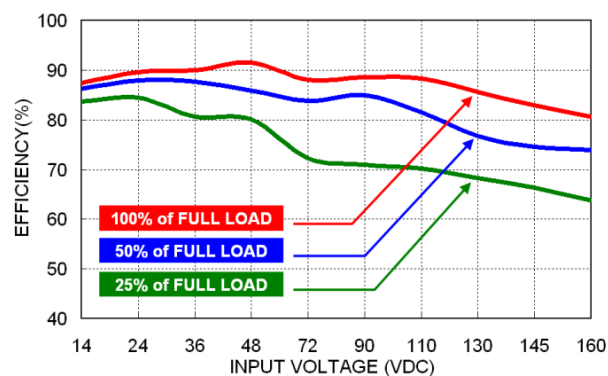
THN 10-7223UIR

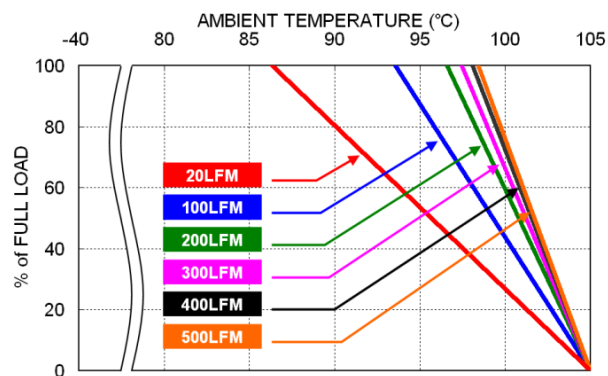Efficiency versus Output Load

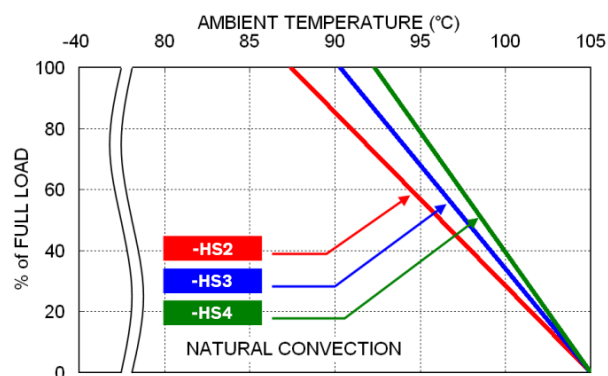
Power Dissipation versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature

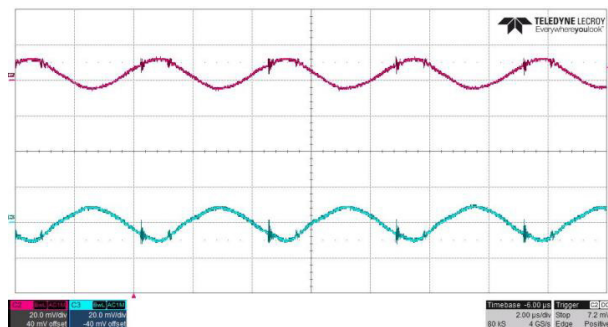Derating Output Load versus Ambient Temperature (with optional Heatsinks)

All specifications valid at nominal voltage, resistive full load and +25°C after warm-up time, unless otherwise stated.
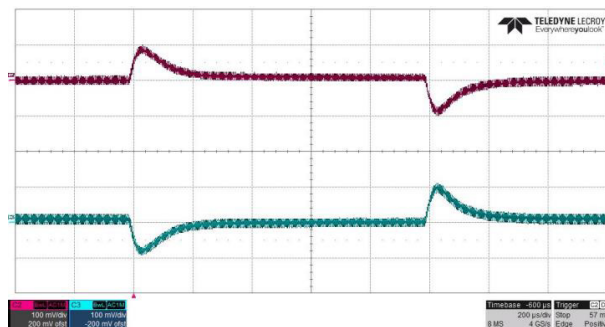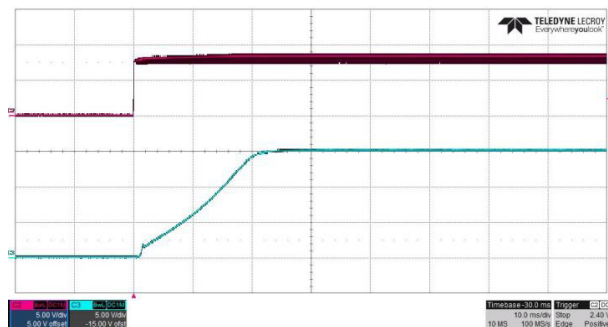
THN 10-7223UIR

Typical Output Ripple and Noise
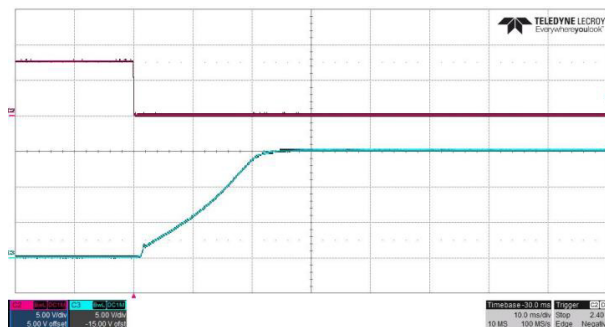(with external capacitor; see datasheet)

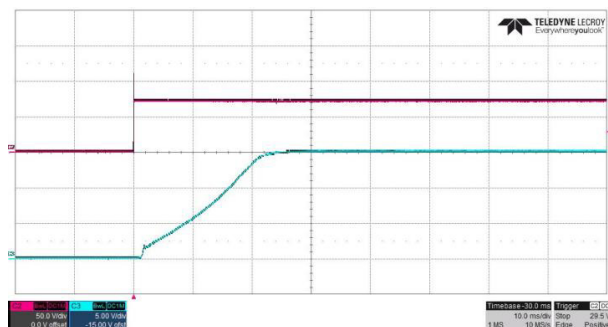Transient Response to Dynamic Load Change (25%)

Remote on/off Voltage Start-Up Characteristic
Positive remote logic (standard)

Remote on/off Voltage Start-Up Characteristic
Negative remote logic (optional)

Typical Start-Up and Output Rise 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.