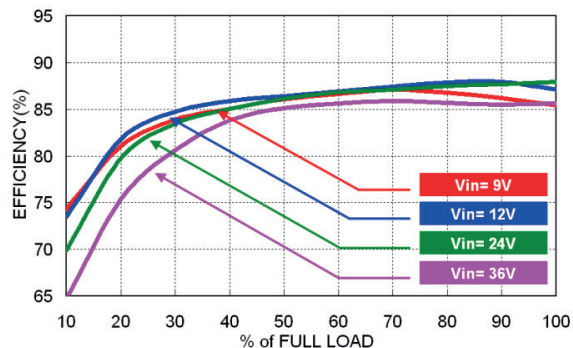## Characteristic Curves
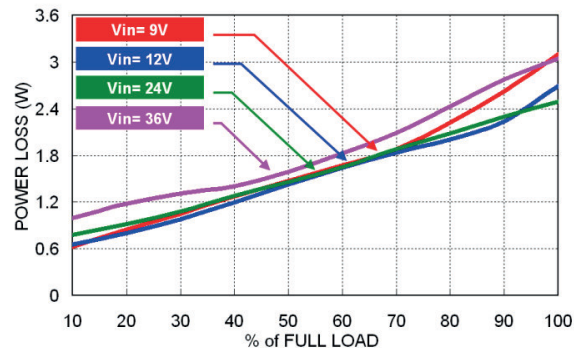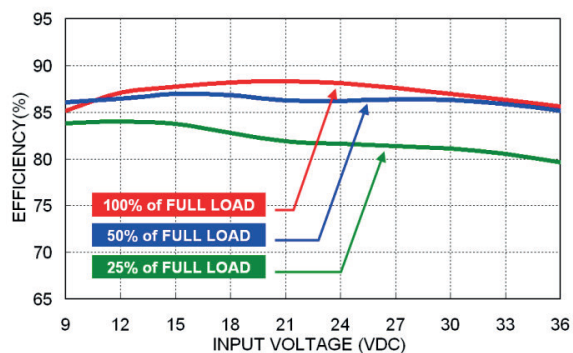
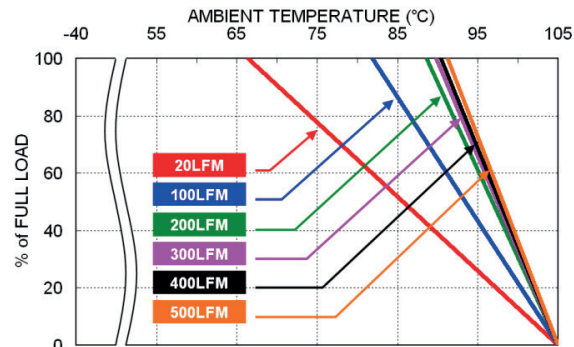### THN 20-2410WIR

Efficiency vs Output Load

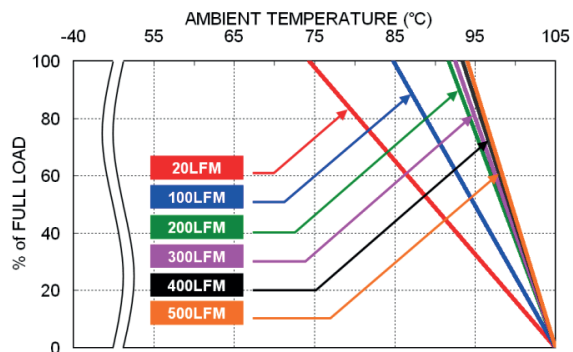Power Dissipation versus Output Load

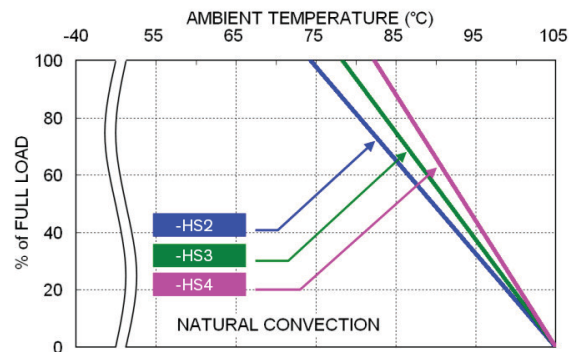Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

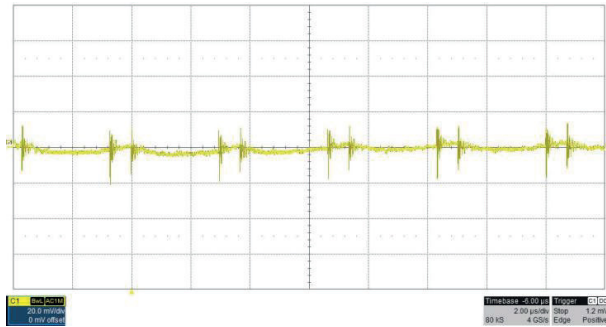Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
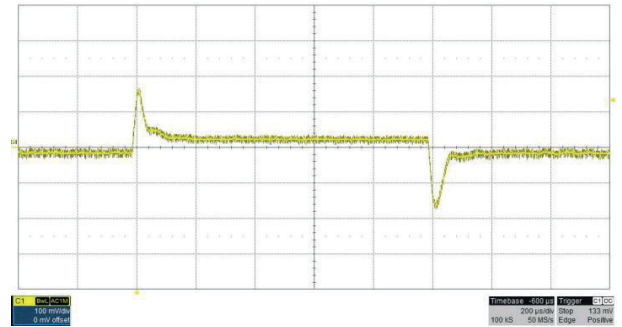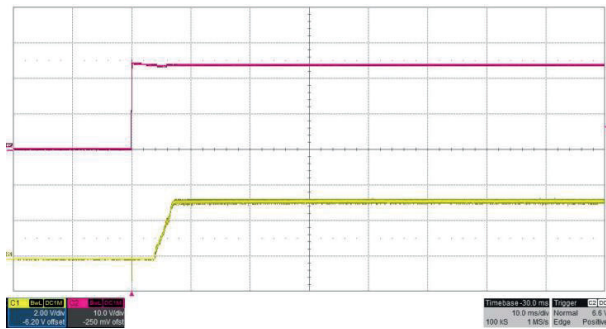
THN 20-2410WIR

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

Transient Response to Dynamic Load Change (25%)

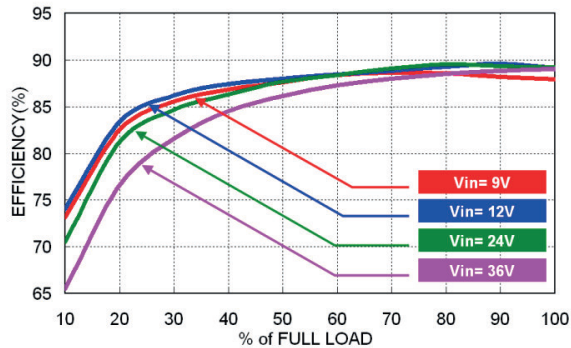Typical Input Start-Up and Output Rise Characteristic

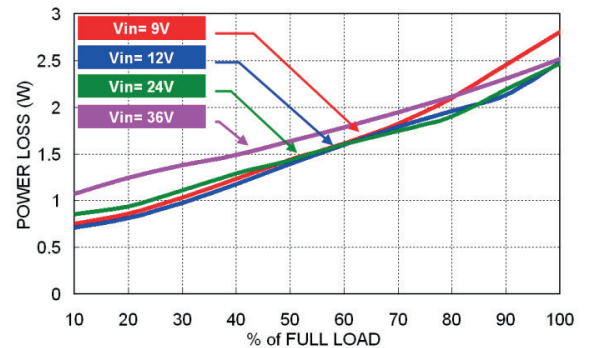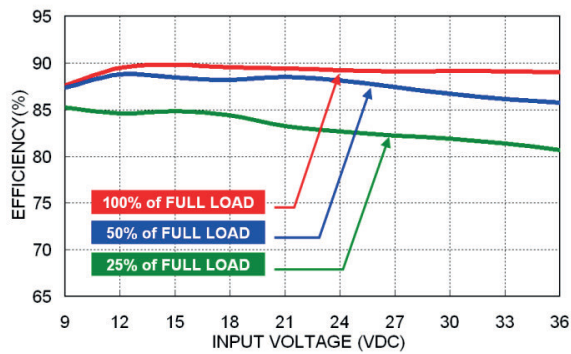Remote on/off Voltage Start-Up Characteristic
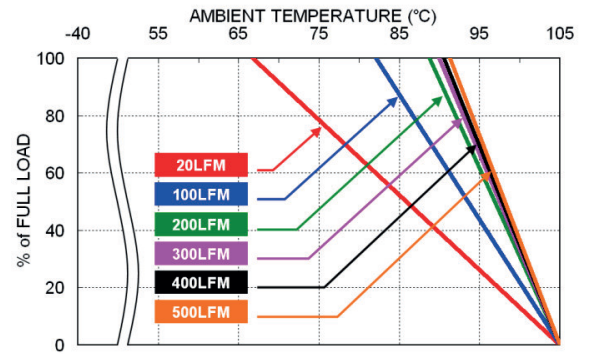
THN 20-2411WIR

Efficiency vs Output Load

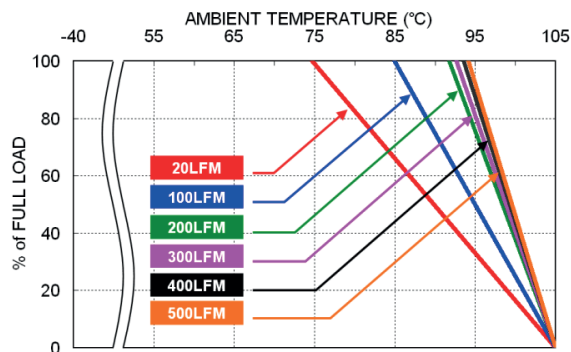
Power Dissipation versus Output Load

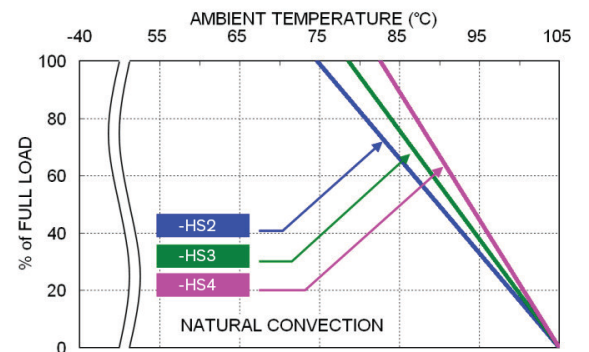### Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)
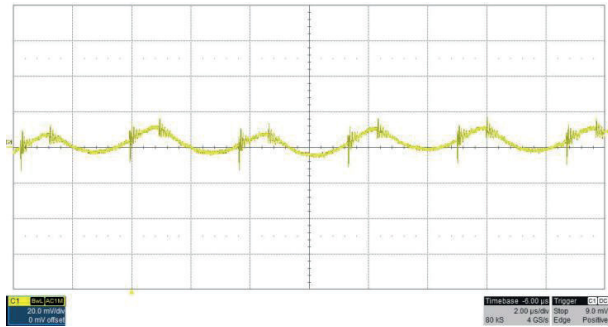

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
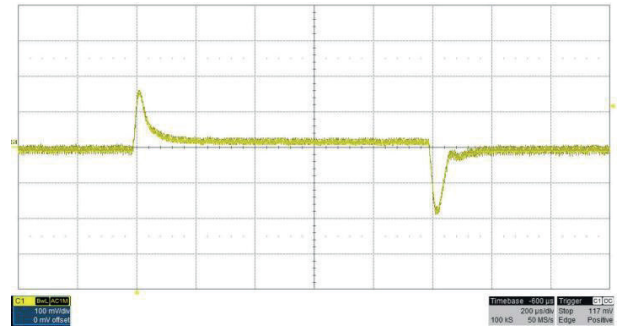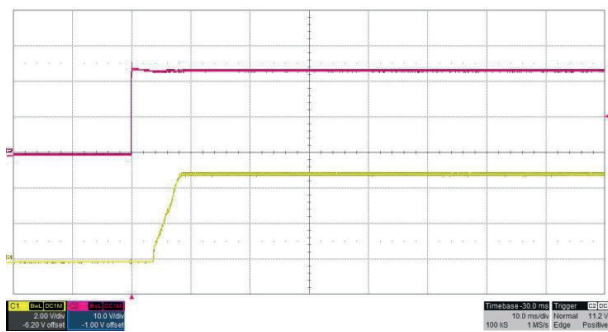
THN 20-2411WIR

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

Transient Response to Dynamic Load Change (25%)
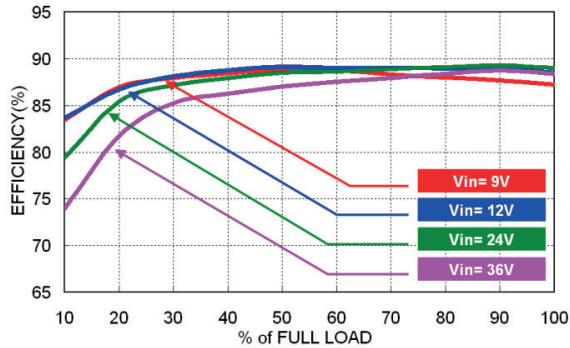
Typical Input Start-Up and Output Rise Characteristic

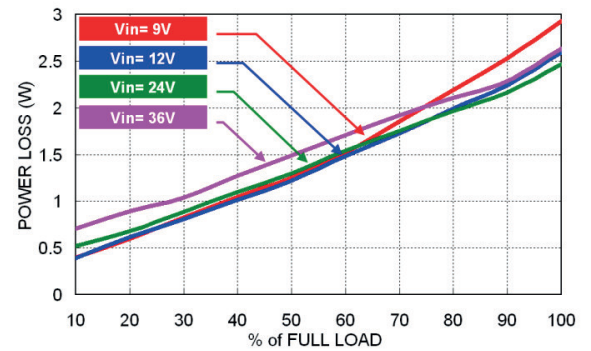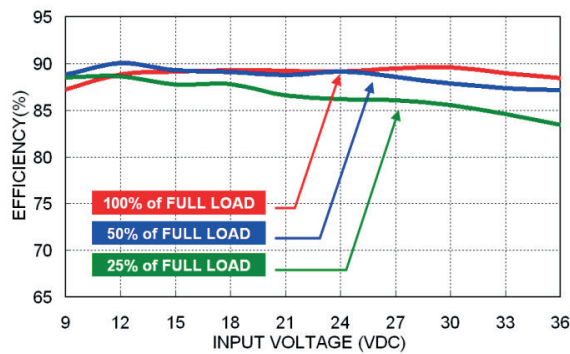Remote on/off Voltage Start-Up Characteristic
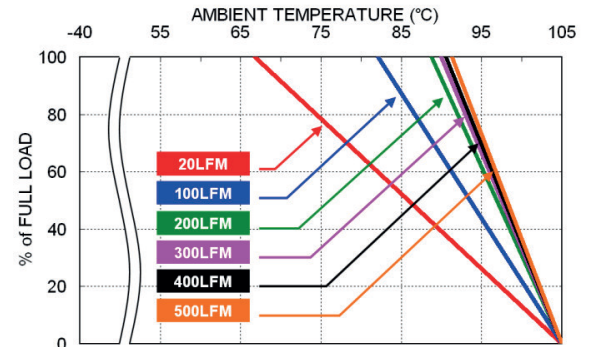
THN 20-2412WIR

Efficiency vs Output Load

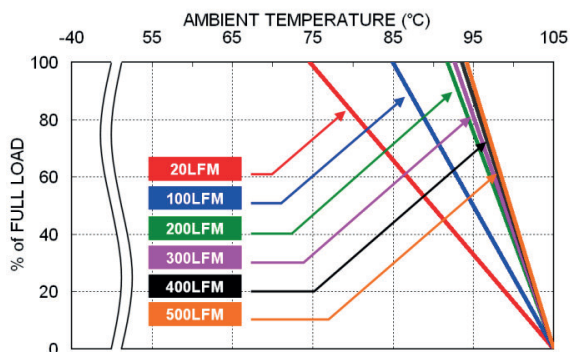
Power Dissipation versus Output Load

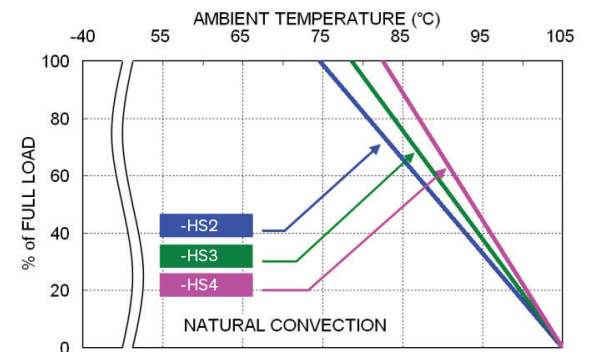### Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)
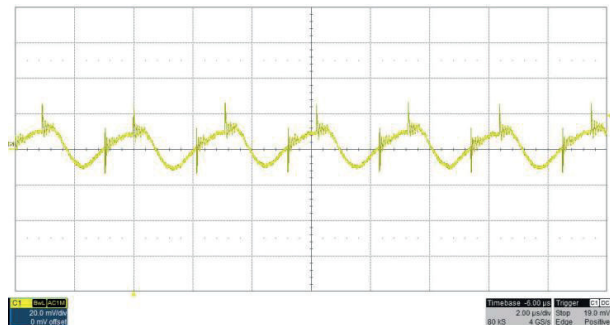

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
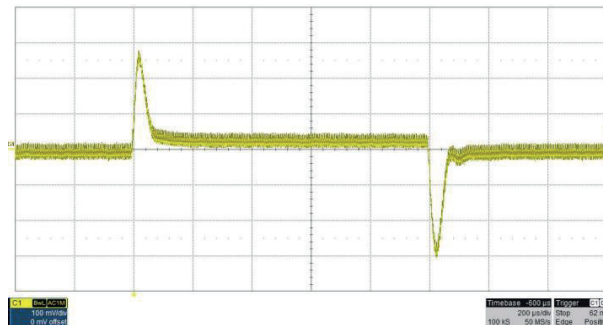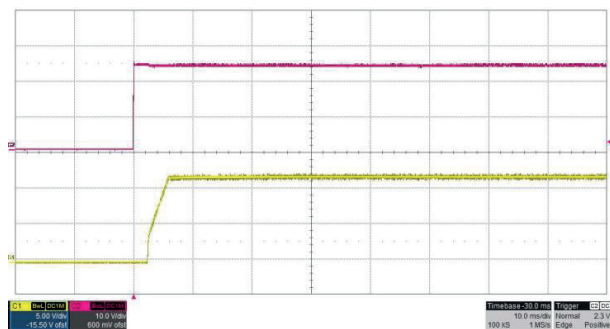
THN 20-2412WIR

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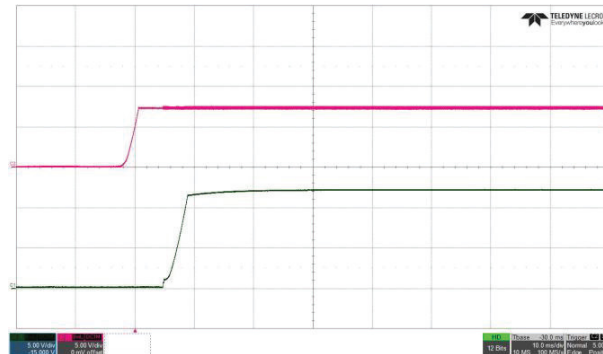(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)

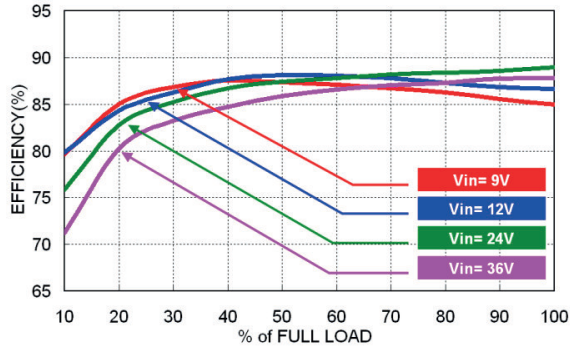Typical Input Start-Up and Output Rise Characteristic

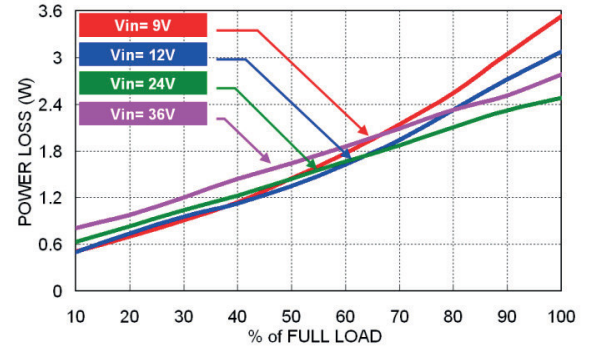Remote on/off Voltage Start-Up Characteristic

TRACO POWER

THN 20-2413WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-2413WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Input Start-Up and Output Rise Characteristic
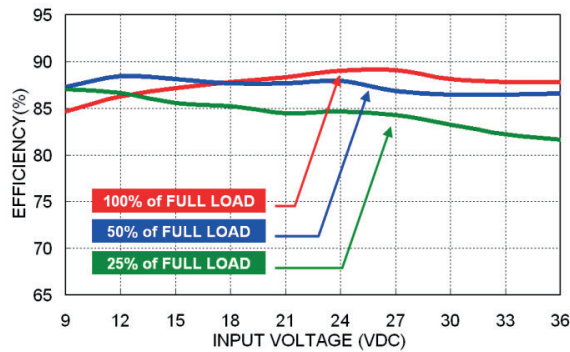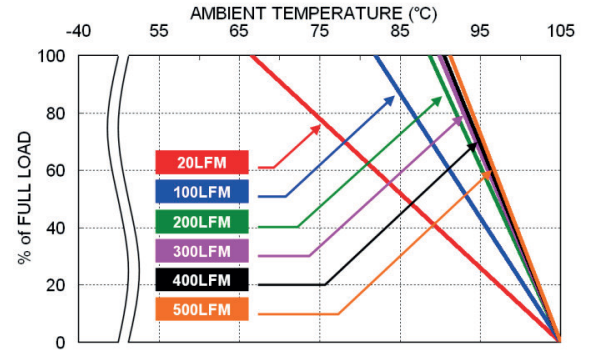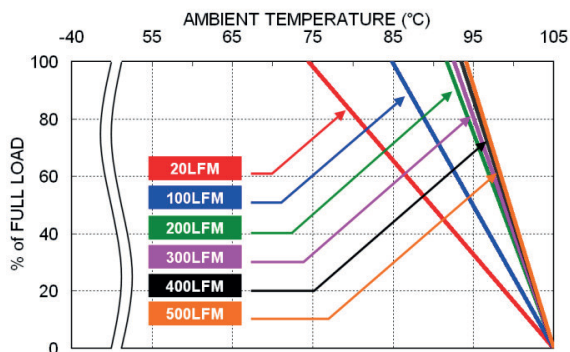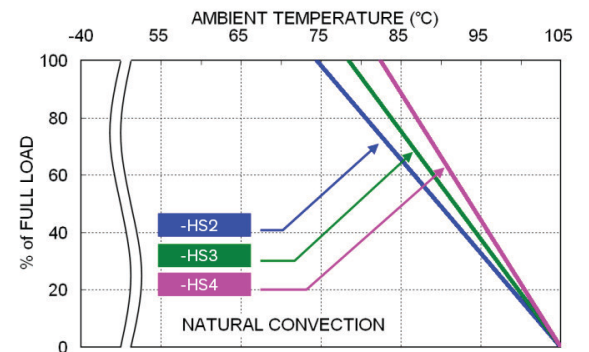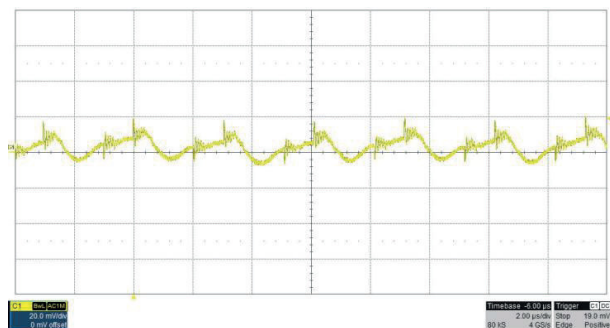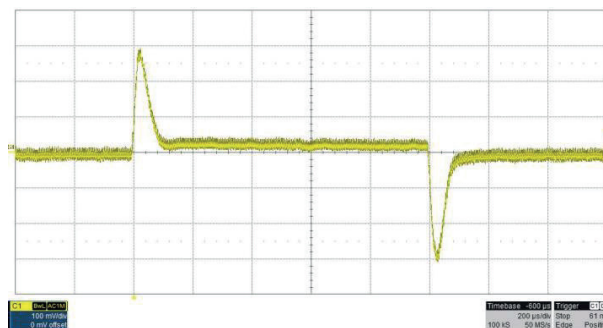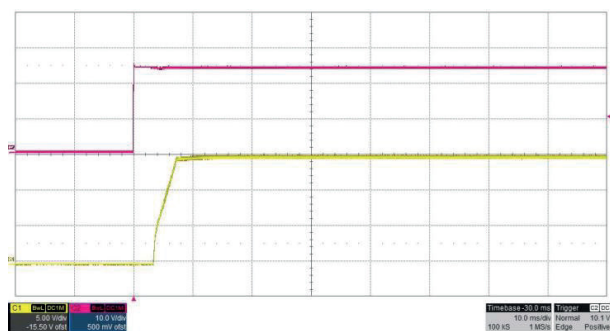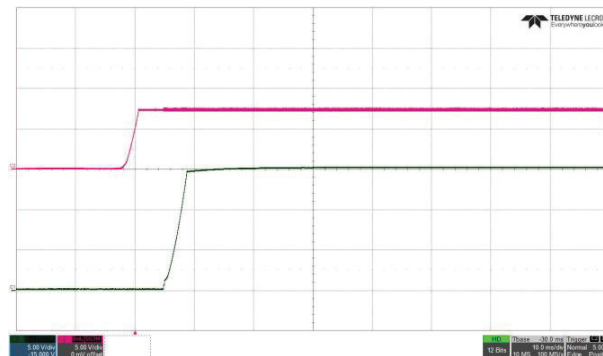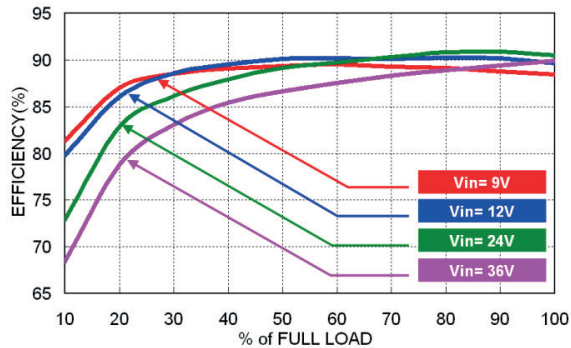
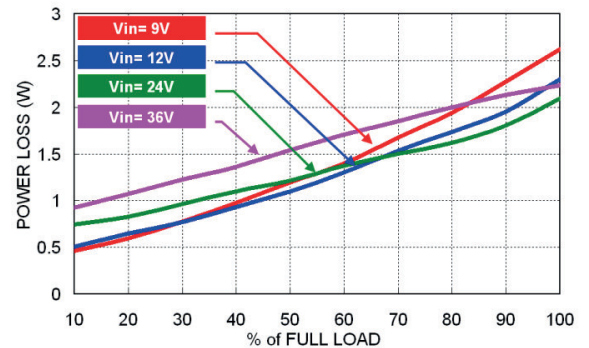Remote on/off Voltage Start-Up Characteristic

TRACO POWER

THN 20-2415WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-2415WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Input Start-Up and Output Rise Characteristic

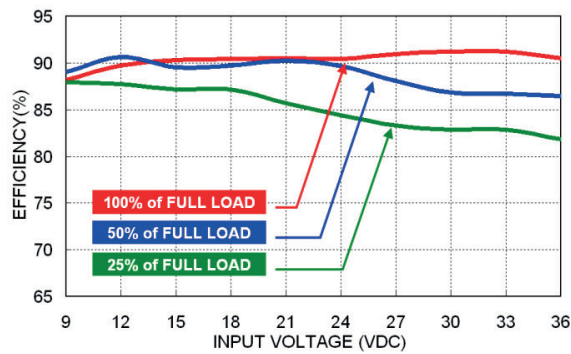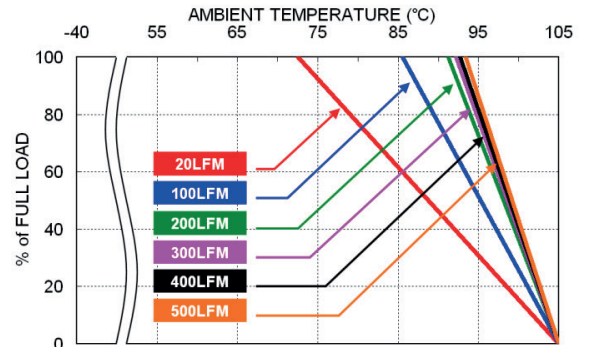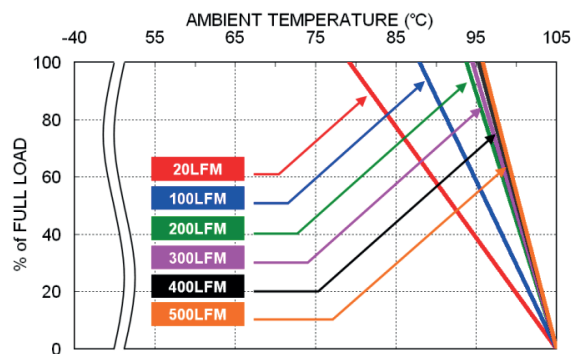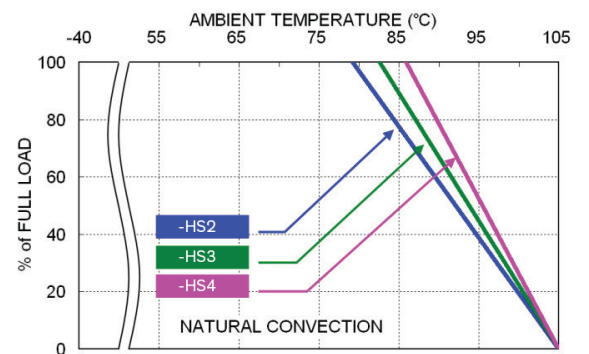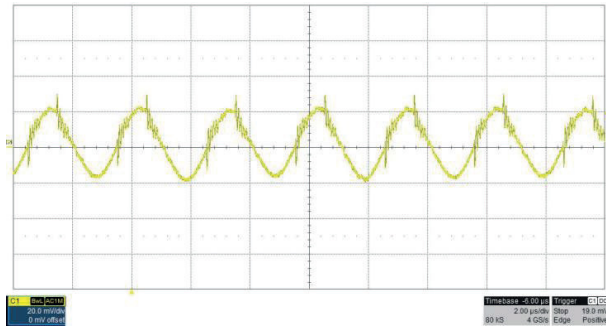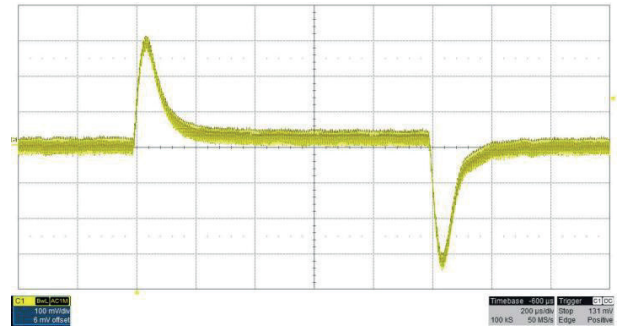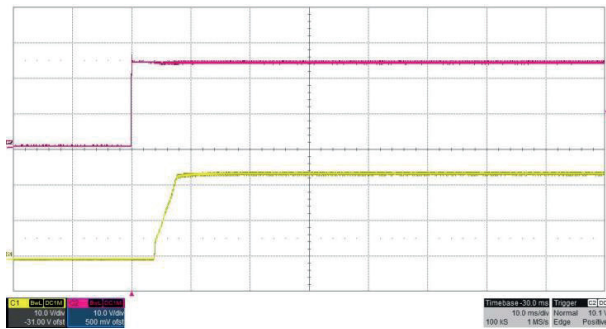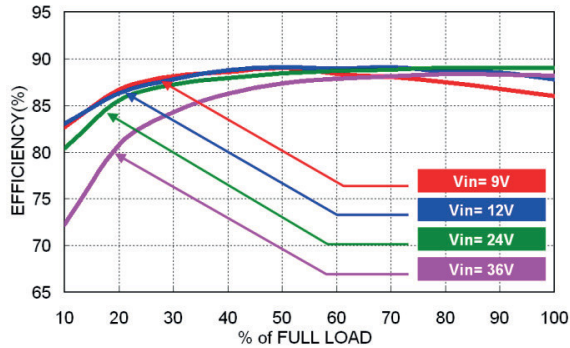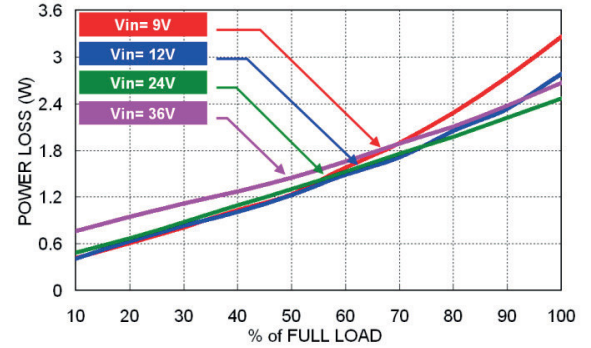Remote on/off Voltage Start-Up Characteristic

THN 20-2422WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-2422WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Input Start-Up and Output Rise Characteristic

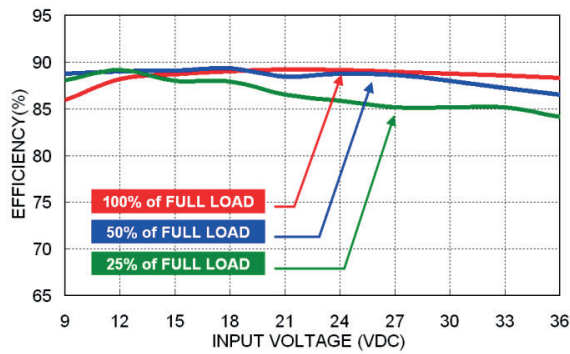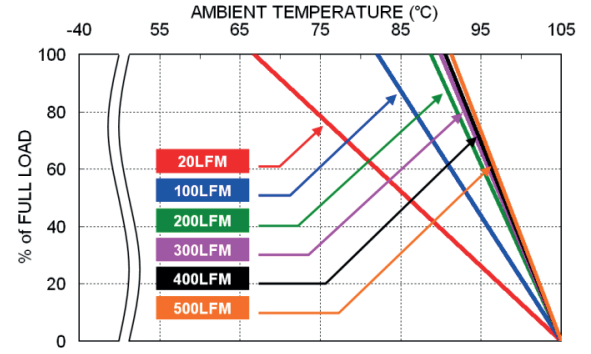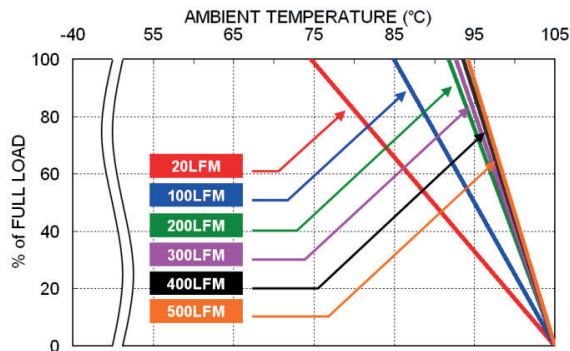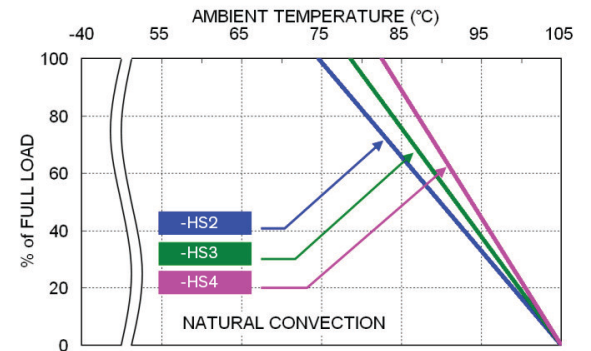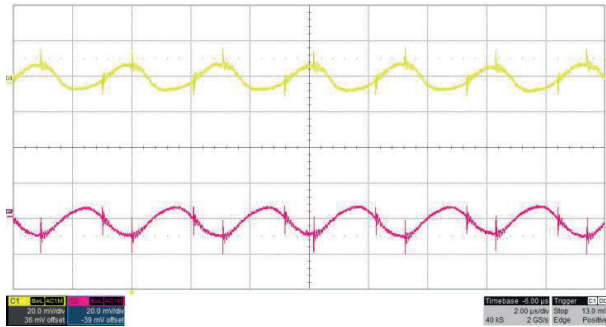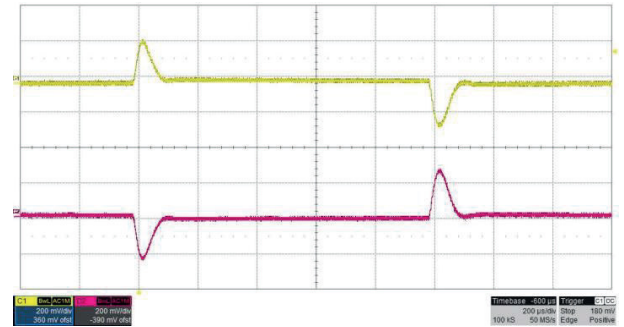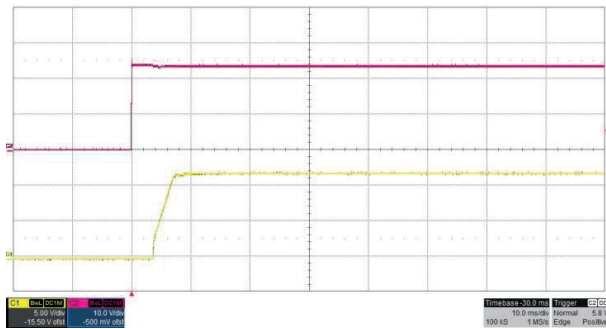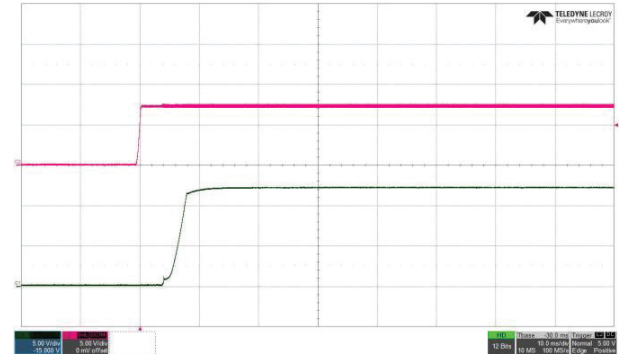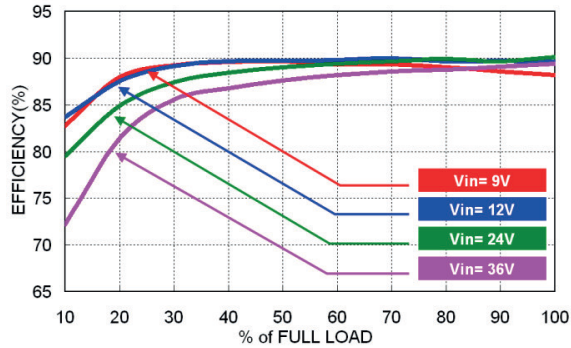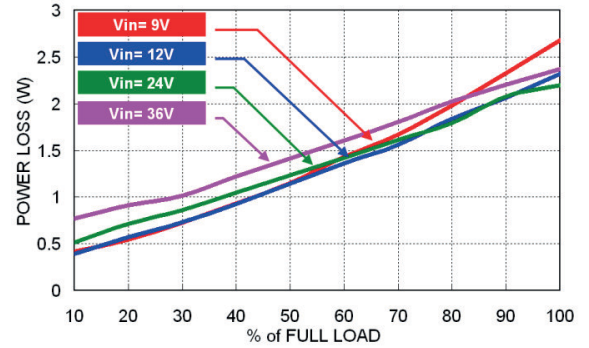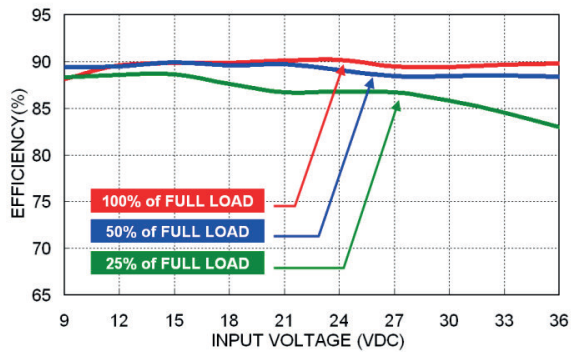Remote on/off Voltage Start-Up Characteristic
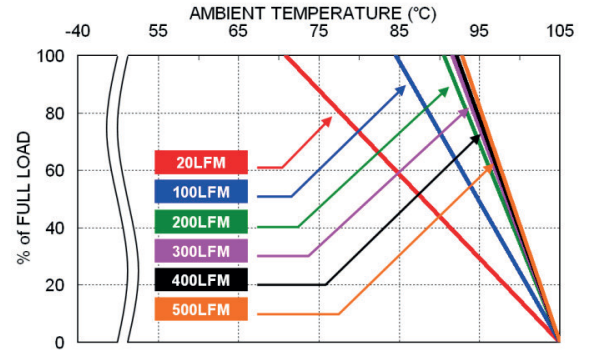
THN 20-2423WIR

Efficiency vs Output Load

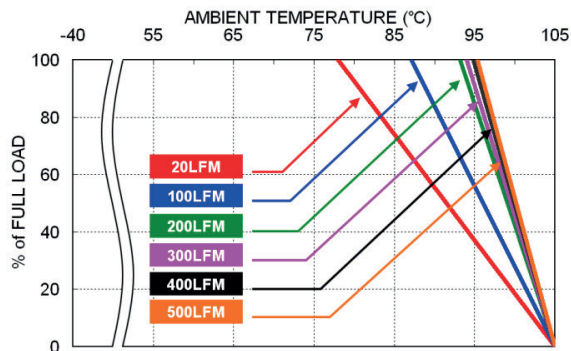
Power Dissipation versus Output Load

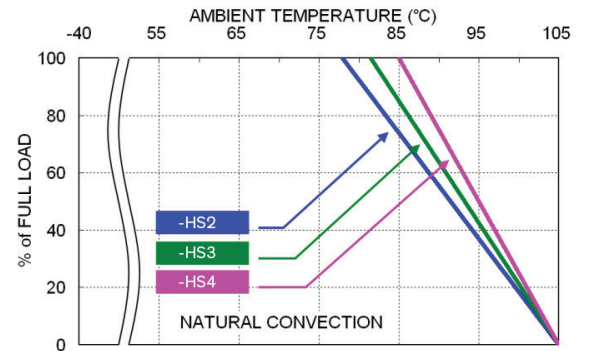### Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)
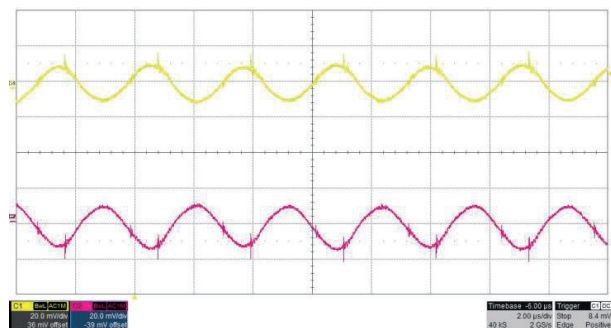

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
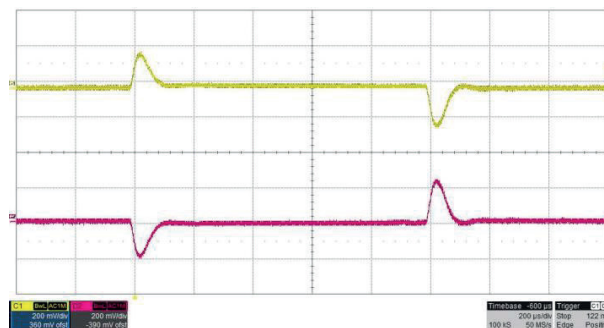
THN 20-2423WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Input Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

TRACO POWER

THN 20-2425WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
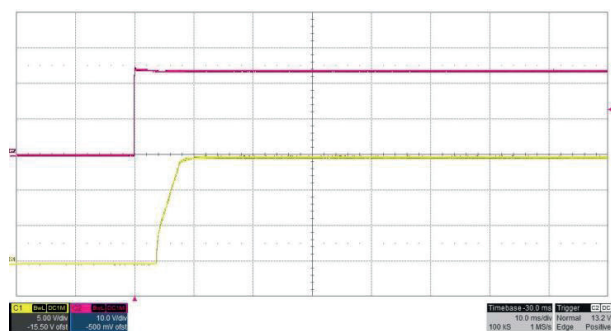
THN 20-2425WIR

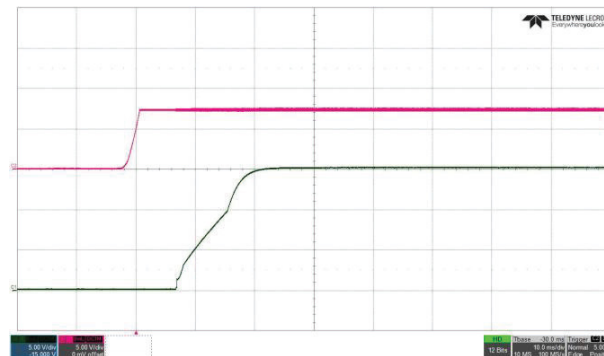Typical Output Ripple and Noise
(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)

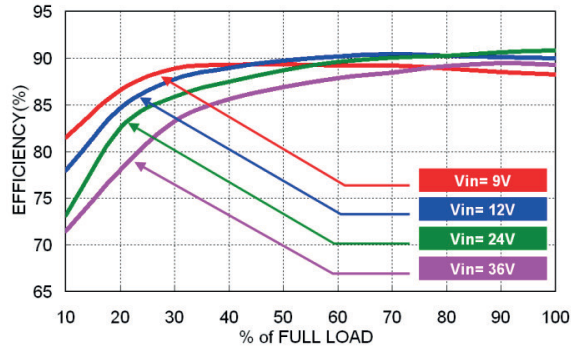Typical Input Start-Up and Output Rise Characteristic
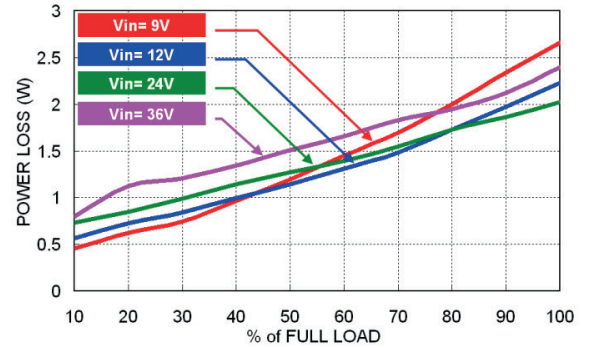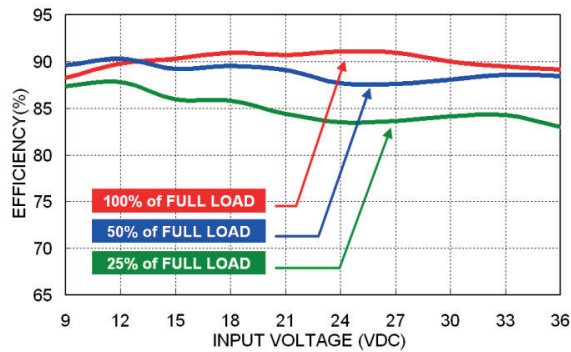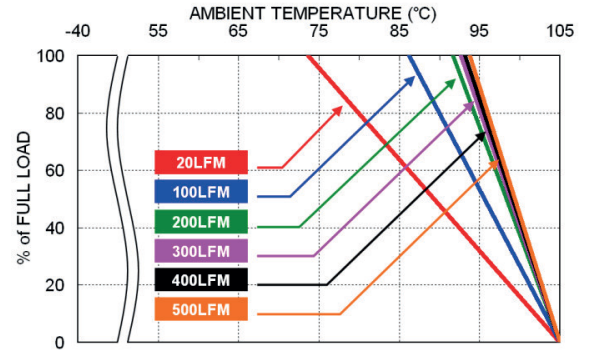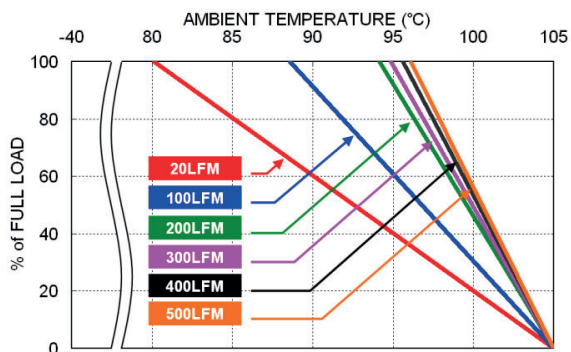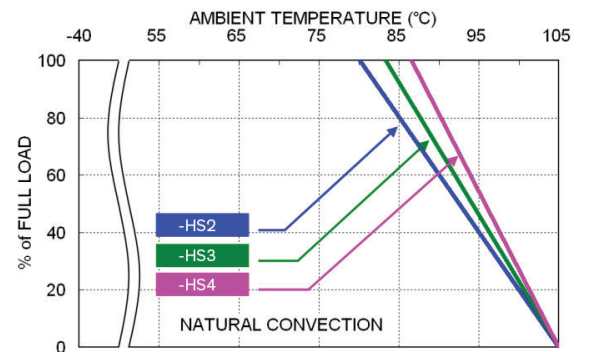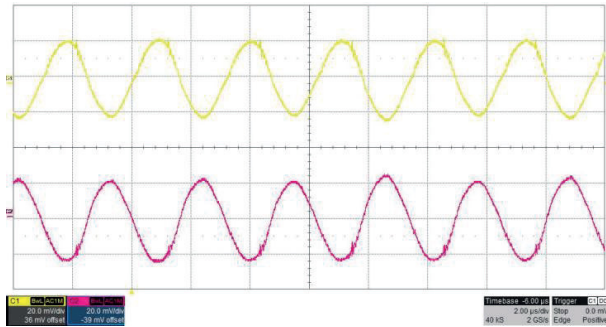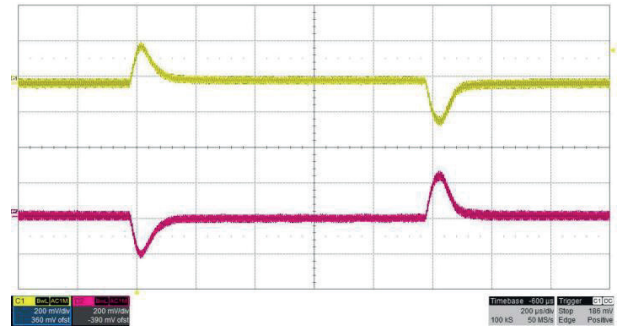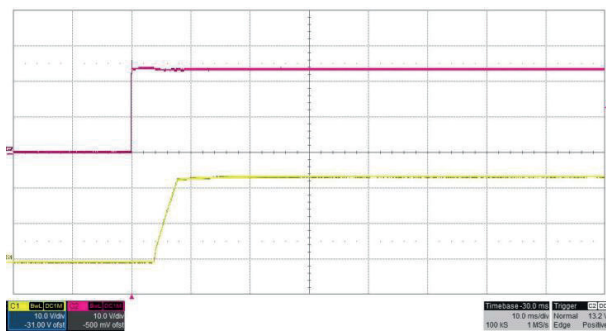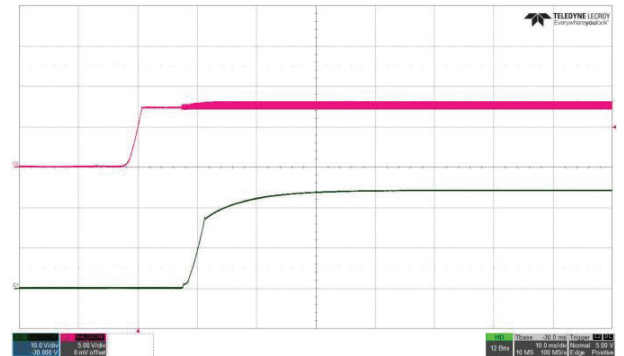
Remote on/off Voltage Start-Up Characteristic

TRACO POWER

THN 20-4810WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-4810WIR

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

Transient Response to Dynamic Load Change (25%)

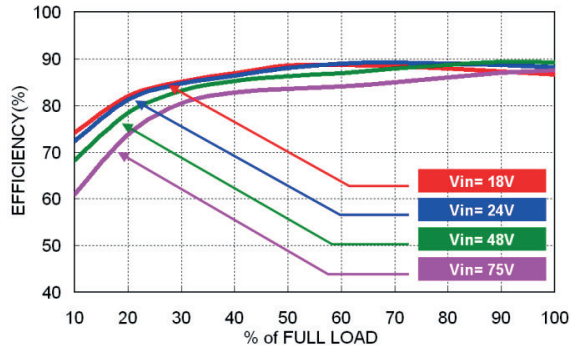Typical Input Start-Up and Output Rise Characteristic

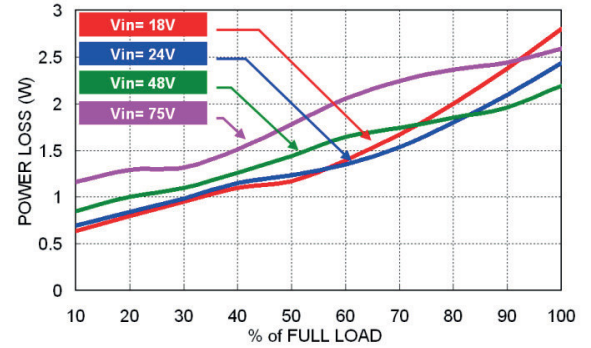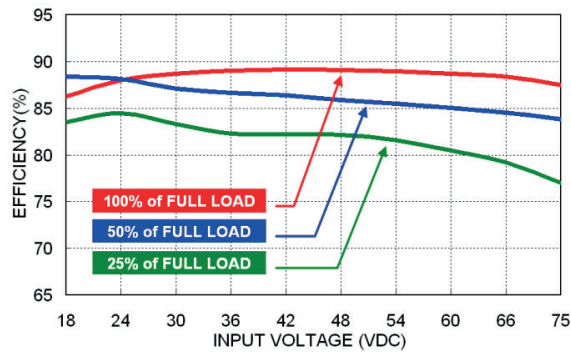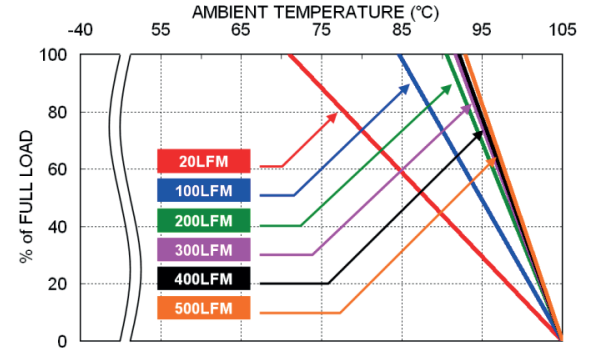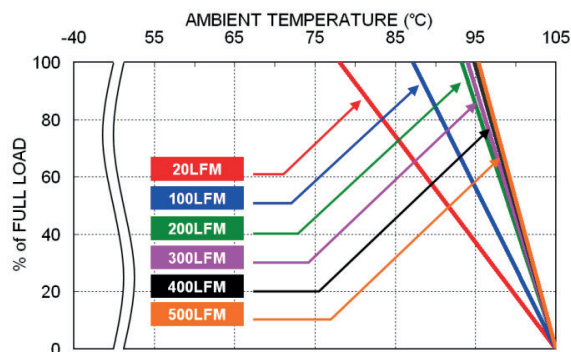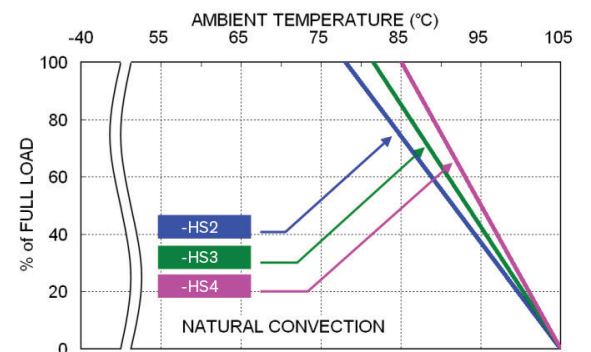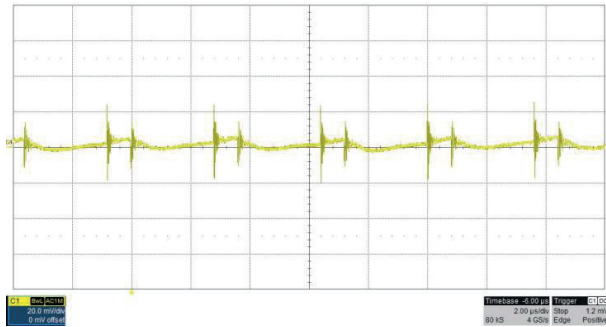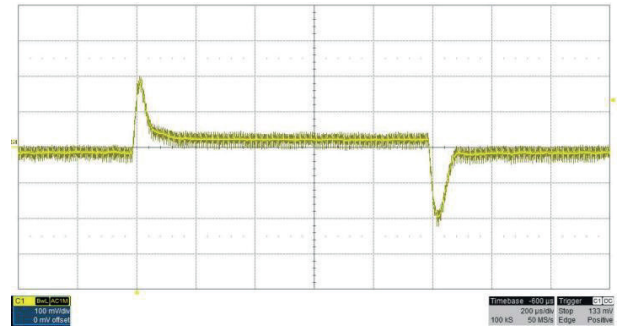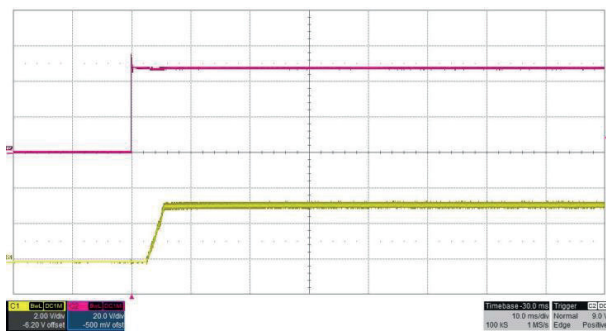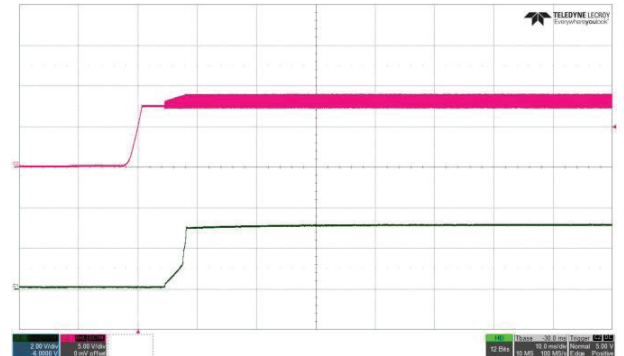Remote on/off Voltage Start-Up Characteristic

TRACO POWER

THN 20-4811WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-4811WIR

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

Transient Response to Dynamic Load Change (25%)

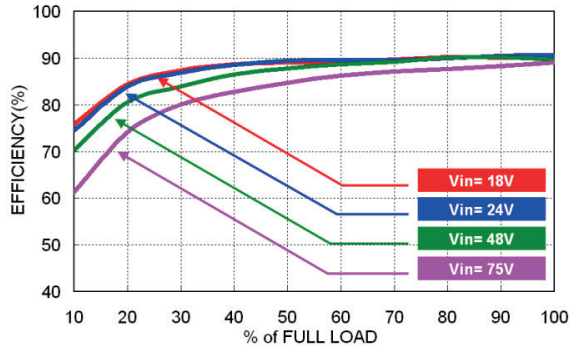Typical Input Start-Up and Output Rise Characteristic

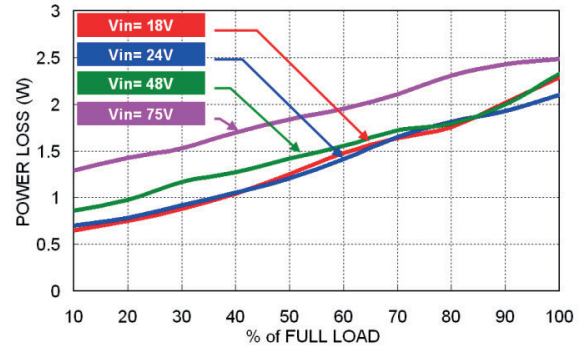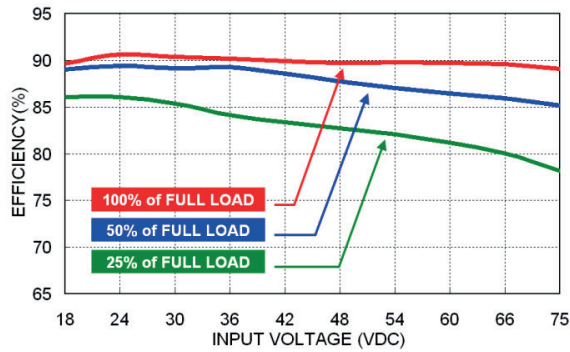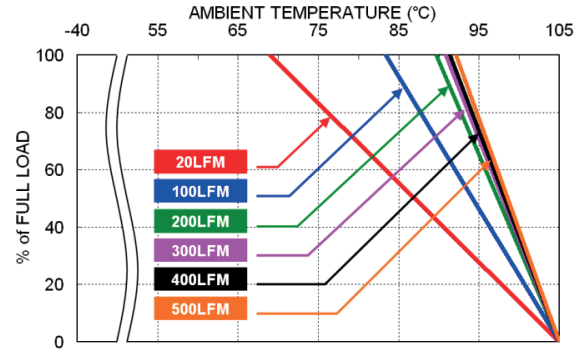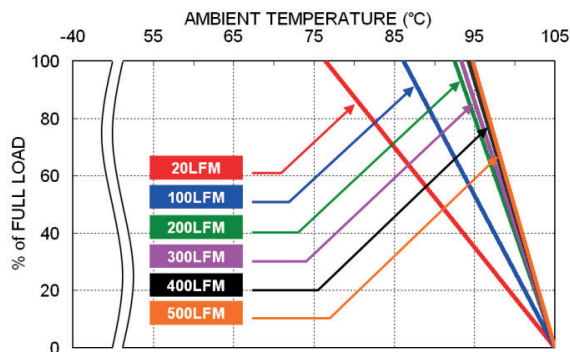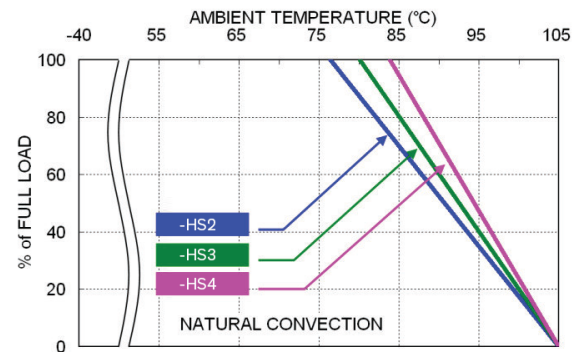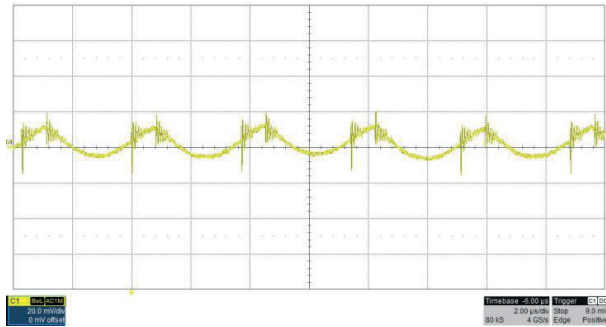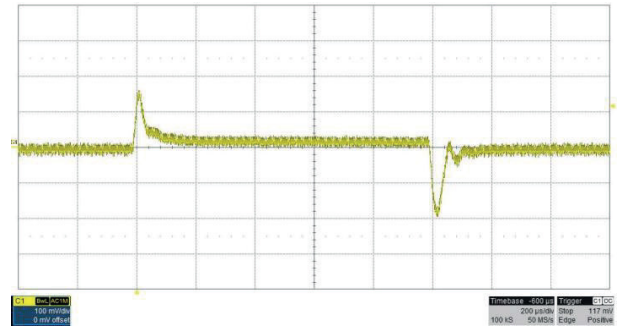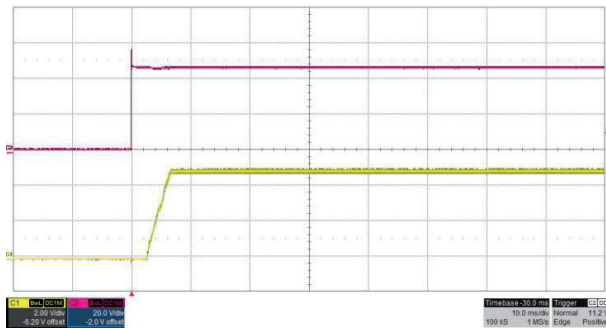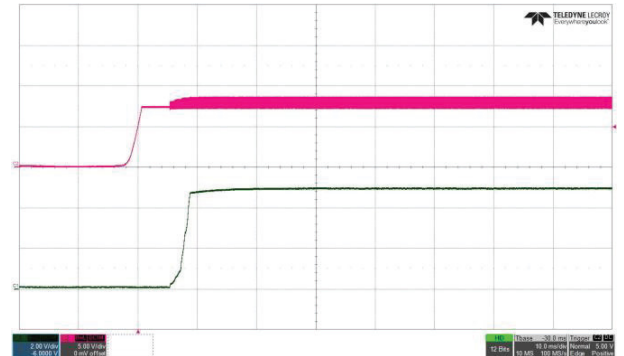Remote on/off Voltage Start-Up Characteristic

TRACO POWER

THN 20-4812WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-4812WIR

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

Transient Response to Dynamic Load Change (25%)

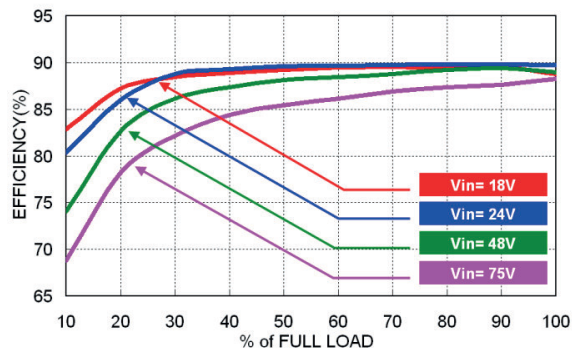Typical Input Start-Up and Output Rise Characteristic

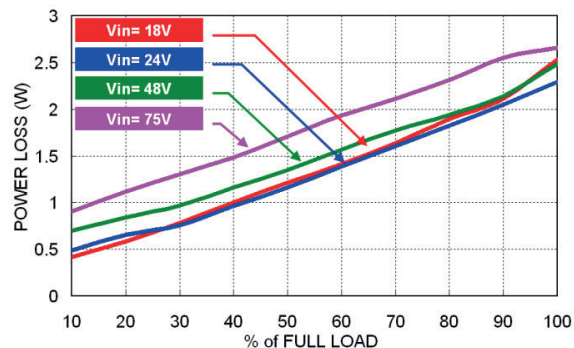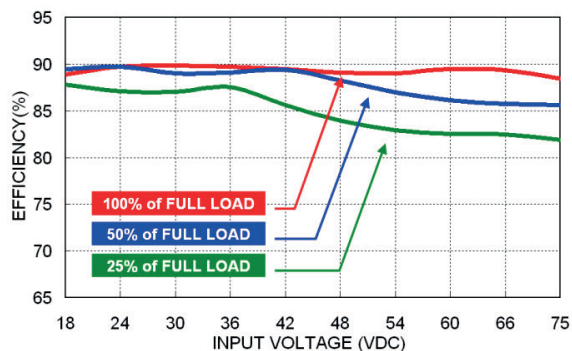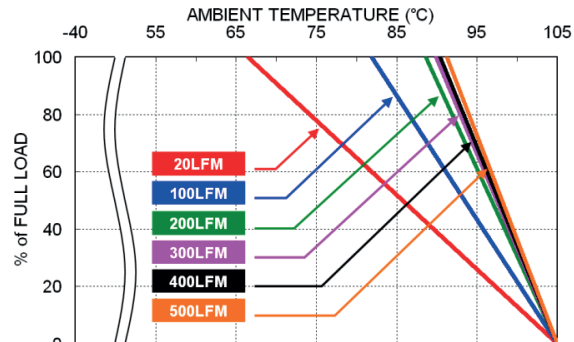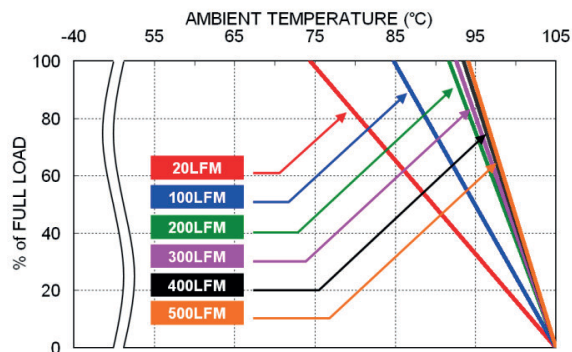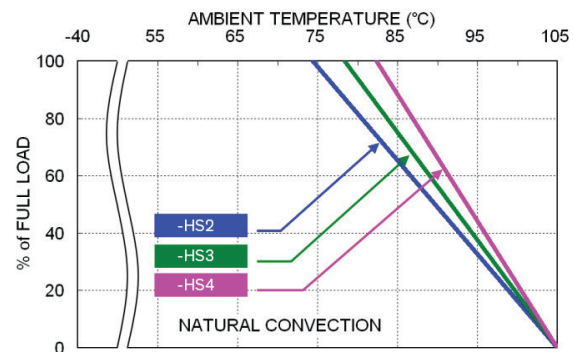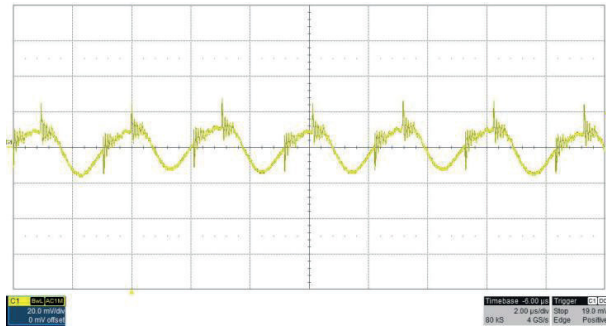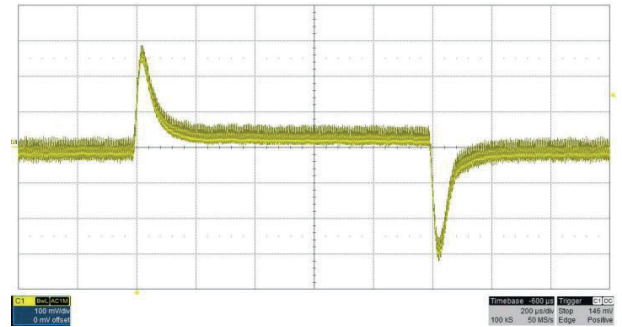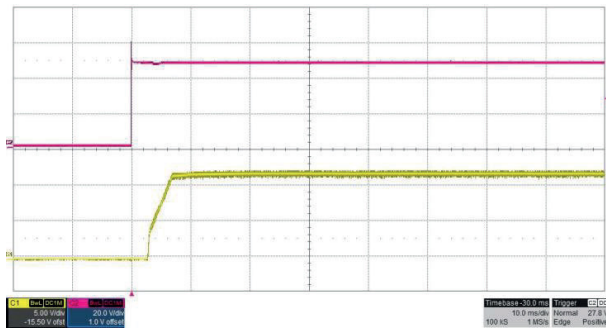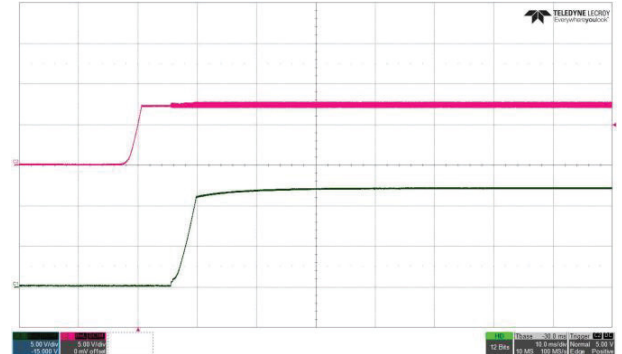Remote on/off Voltage Start-Up Characteristic

THN 20-4813WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-4813WIR

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

Transient Response to Dynamic Load Change (25%)
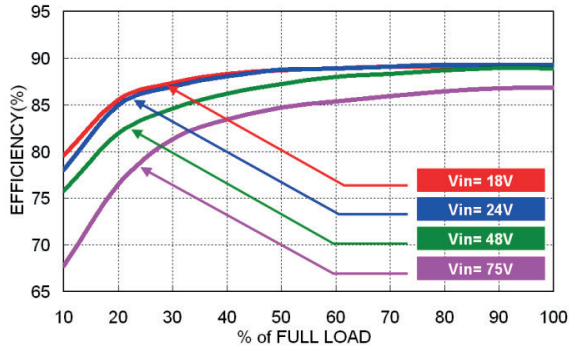
Typical Input Start-Up and Output Rise Characteristic

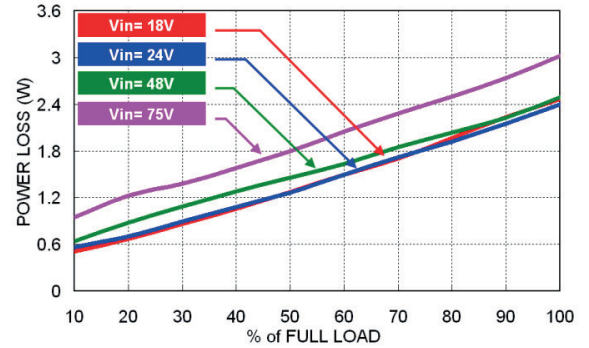Remote on/off Voltage Start-Up Characteristic
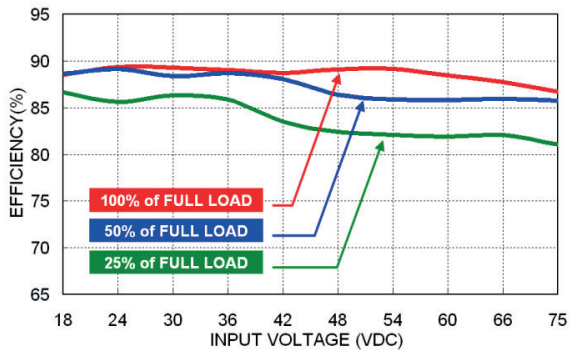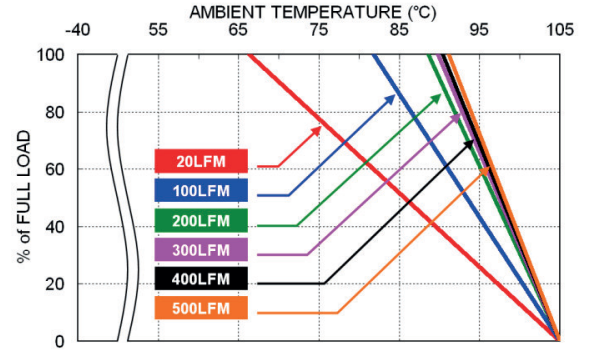
THN 20-4815WIR

Efficiency vs Output Load

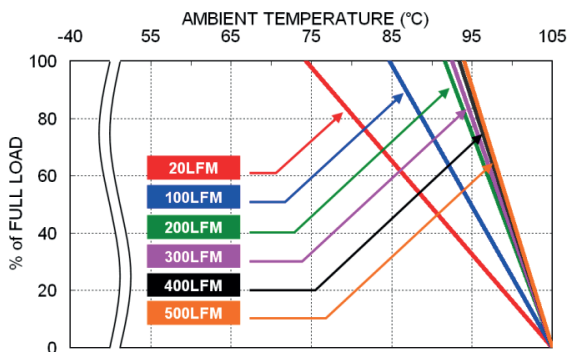

Power Dissipation versus Output Load
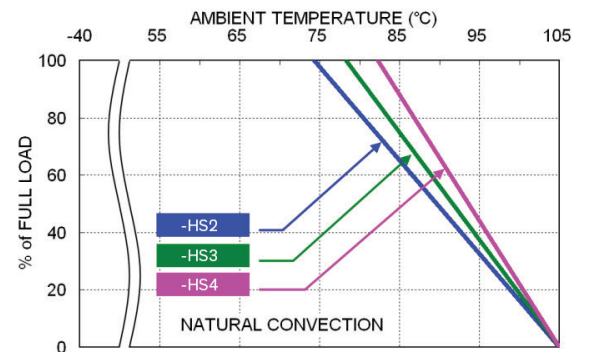

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

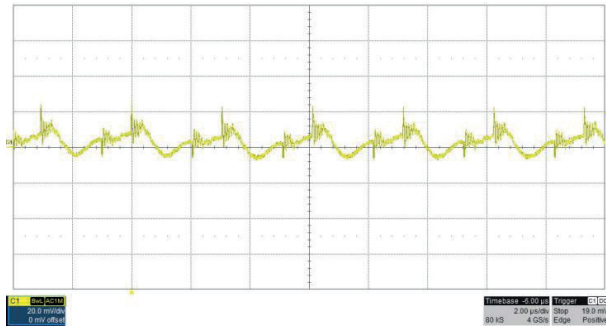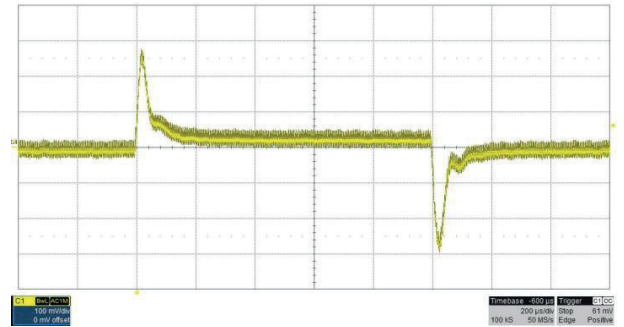Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
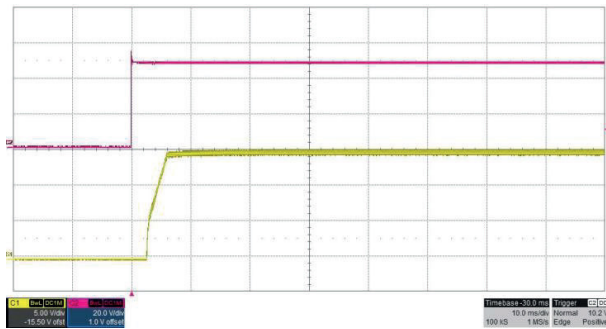
THN 20-4815WIR

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

Transient Response to Dynamic Load Change (25%)

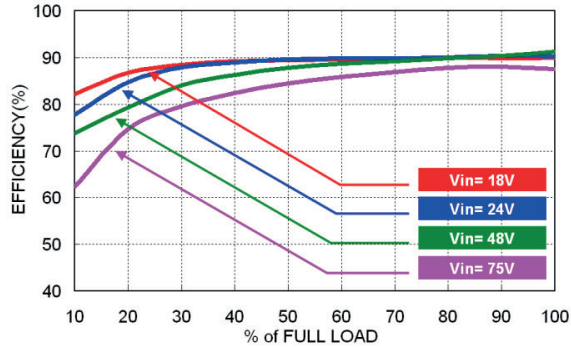Typical Input Start-Up and Output Rise Characteristic
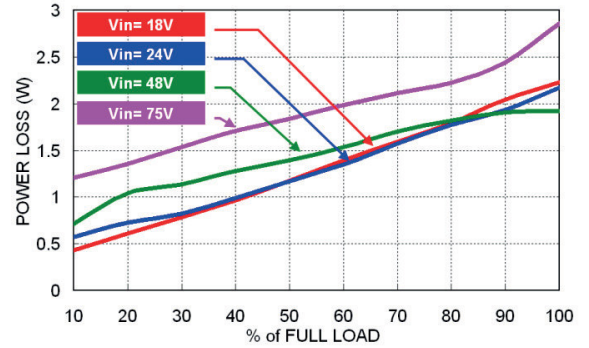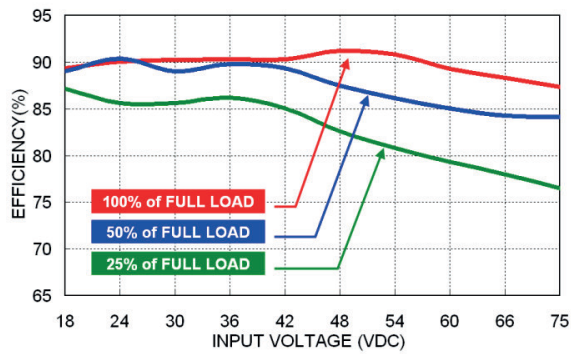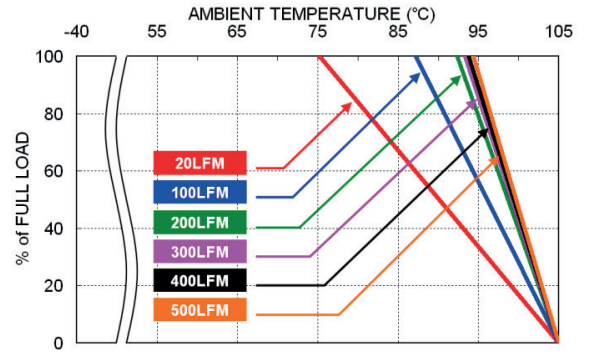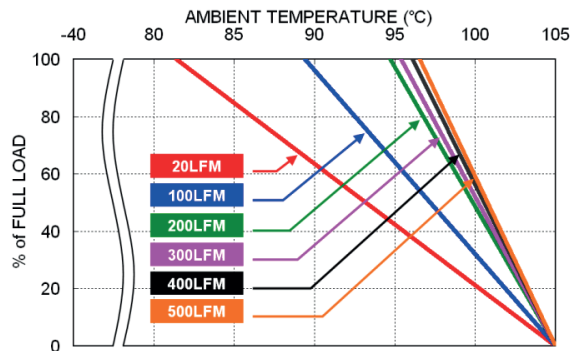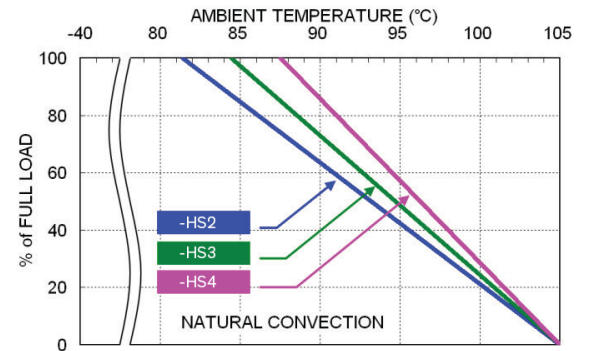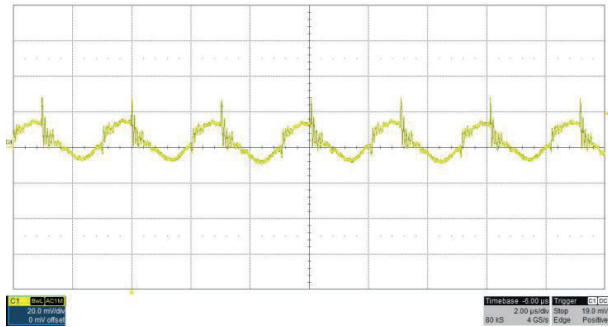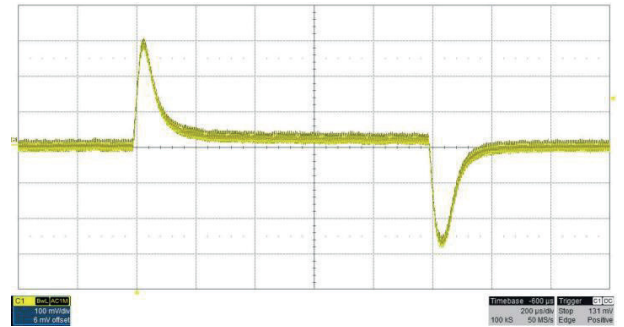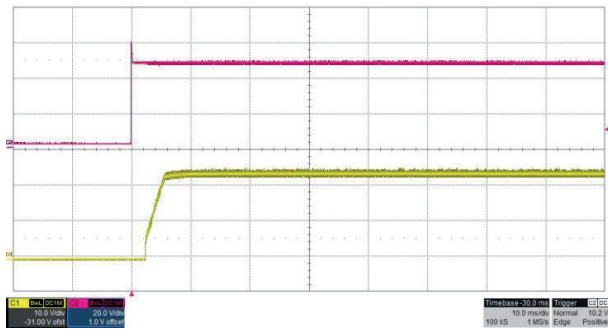

Remote on/off Voltage Start-Up Characteristic

TRACO POWER

THN 20-4822WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-4822WIR

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

Transient Response to Dynamic Load Change (25%)

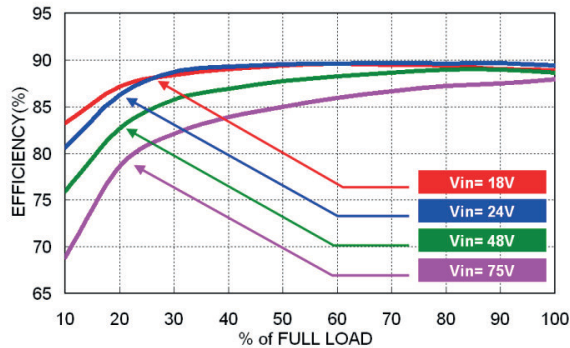Typical Input Start-Up and Output Rise Characteristic

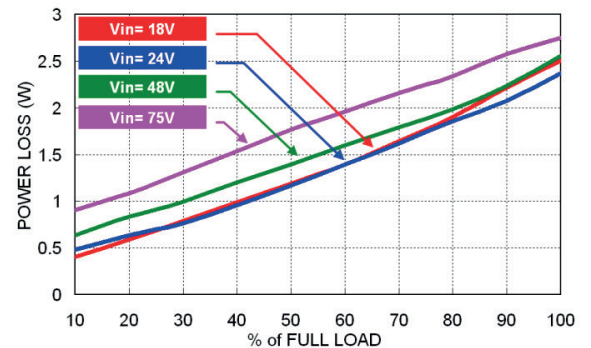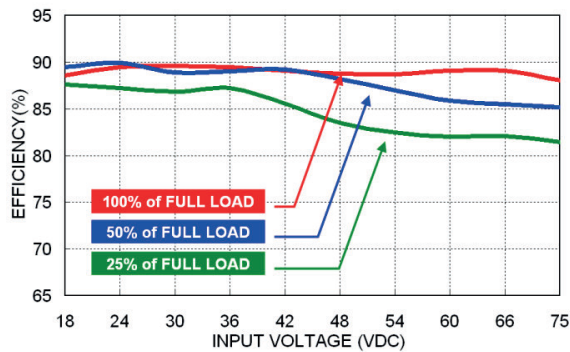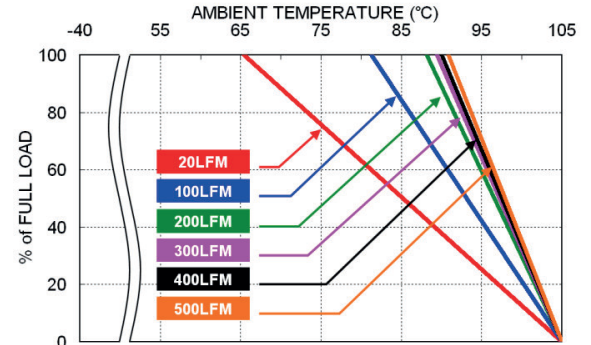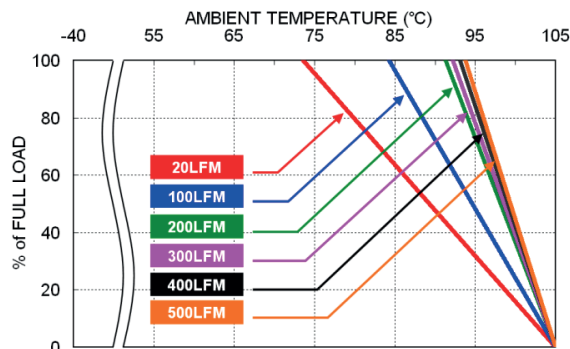Remote on/off Voltage Start-Up Characteristic

THN 20-4823WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

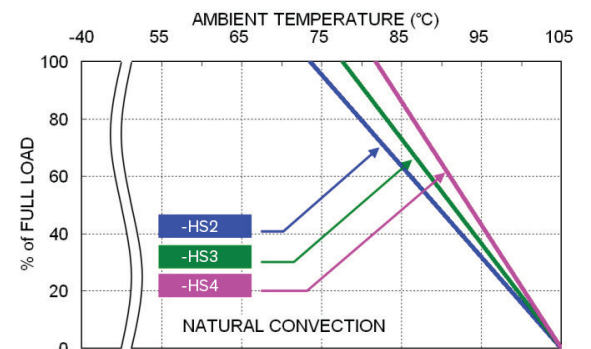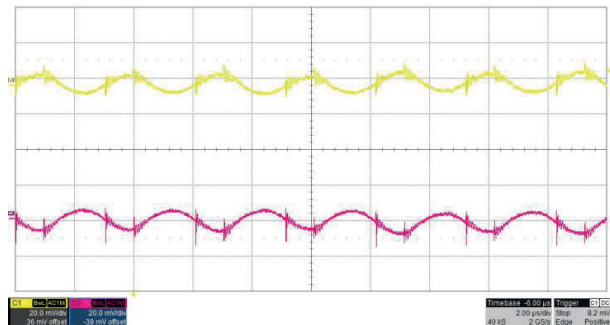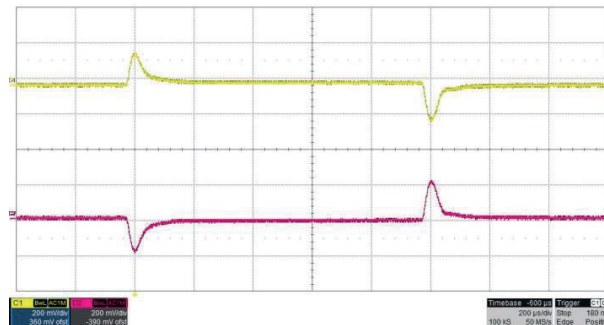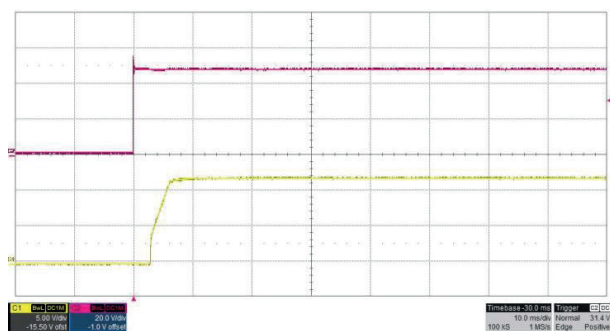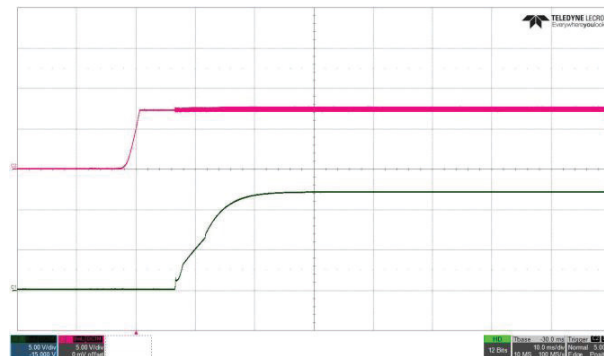### Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-4823WIR

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

Transient Response to Dynamic Load Change (25%)
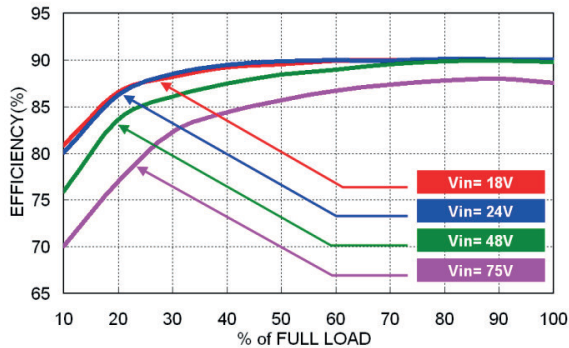
Typical Input Start-Up and Output Rise Characteristic

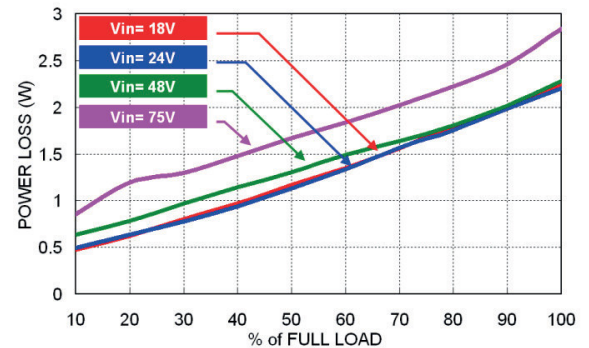Remote on/off Voltage Start-Up Characteristic

TRACO POWER
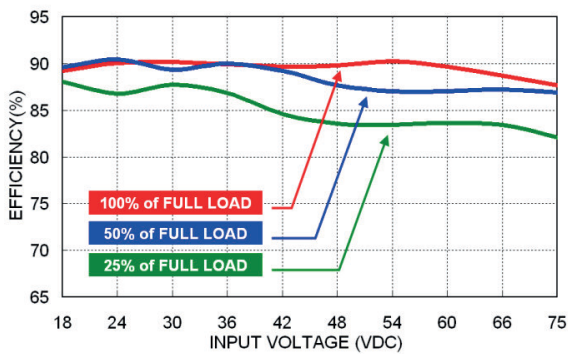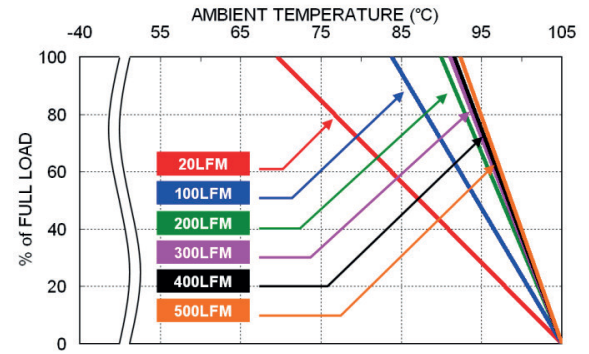
THN 20-4825WIR

Efficiency vs Output Load

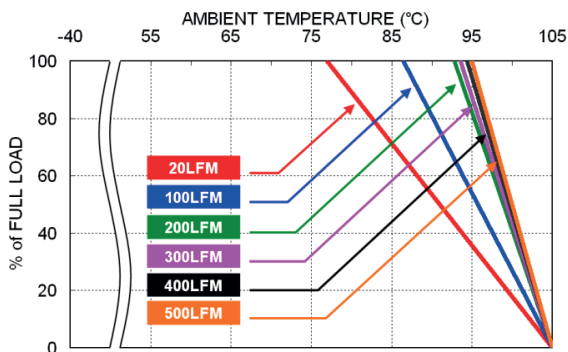### Power Dissipation versus Output Load
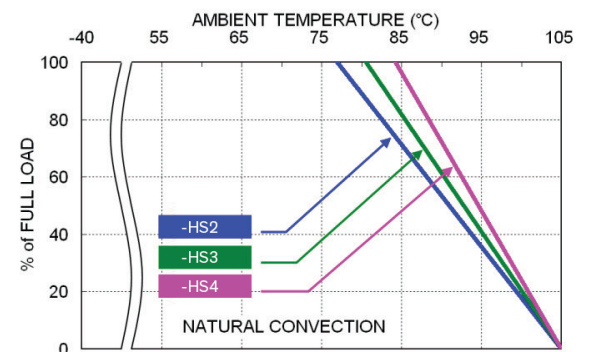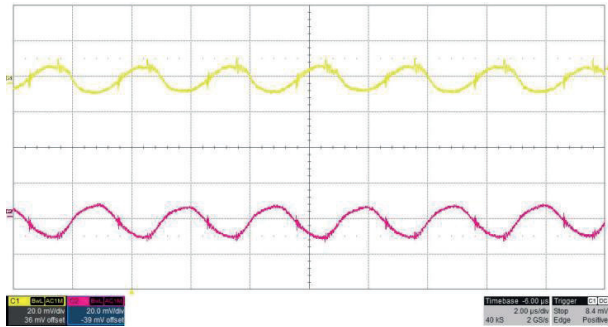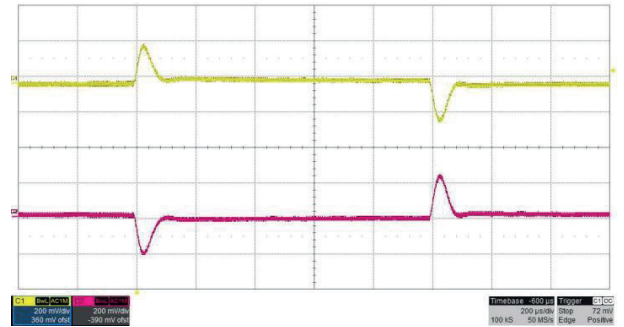

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
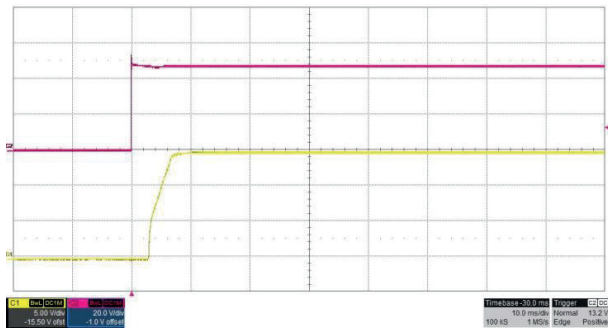
THN 20-4825WIR

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

Transient Response to Dynamic Load Change (25%)

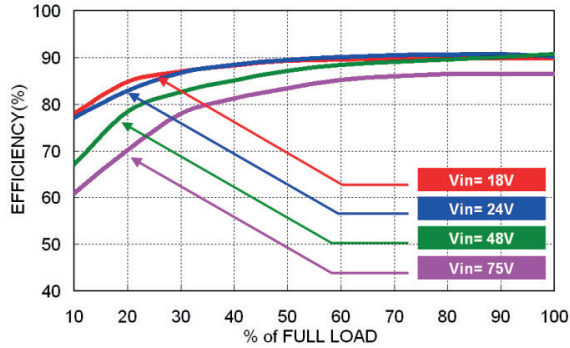Typical Input Start-Up and Output Rise Characteristic

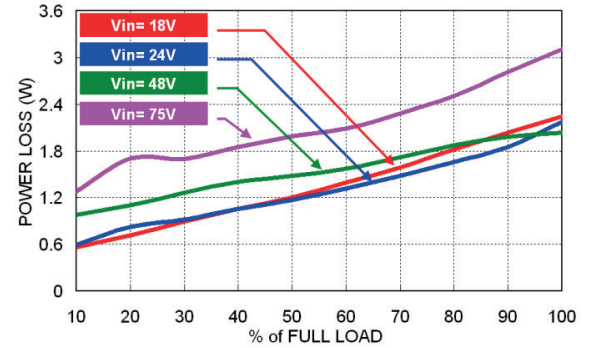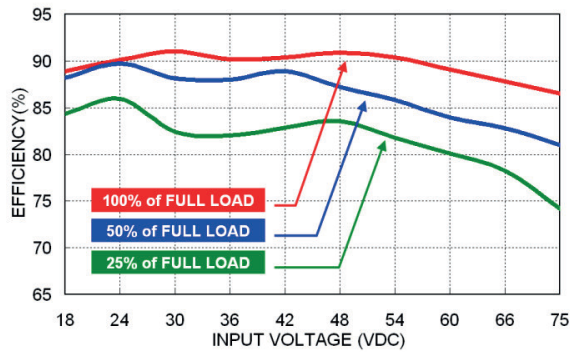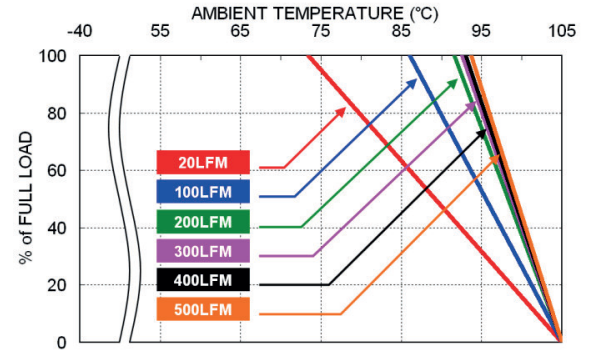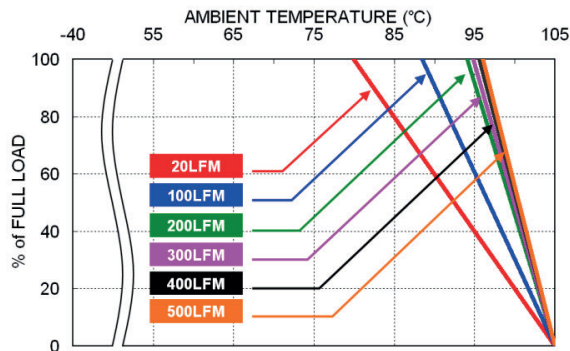Remote on/off Voltage Start-Up Characteristic

THN 20-7210WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

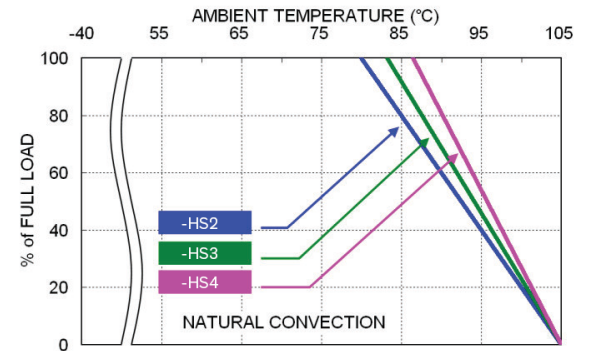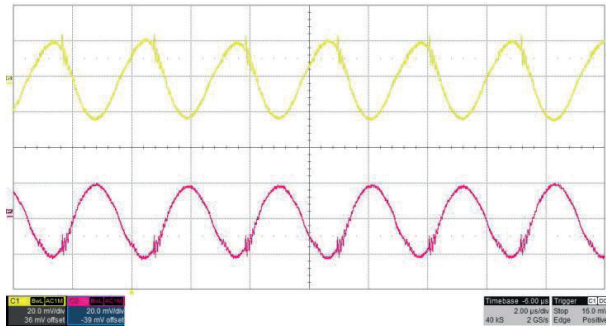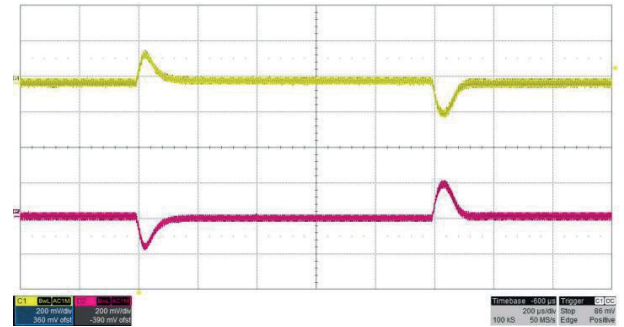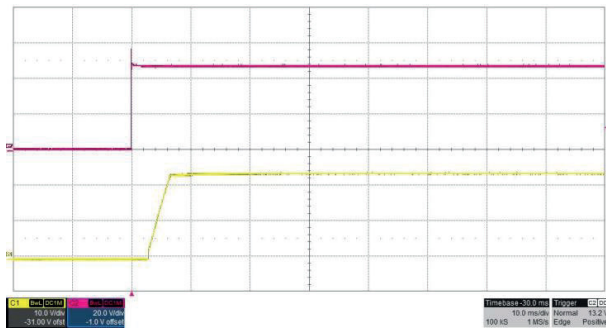### Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-7210WIR

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

Transient Response to Dynamic Load Change (25%)

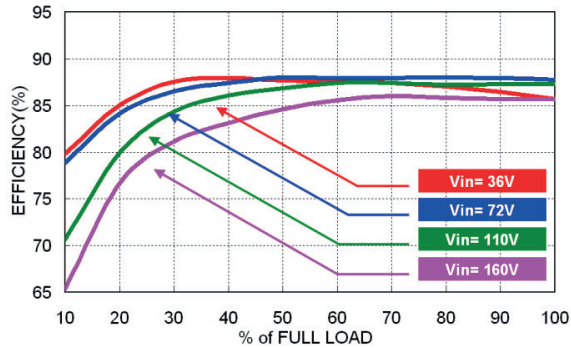Typical Input Start-Up and Output Rise Characteristic
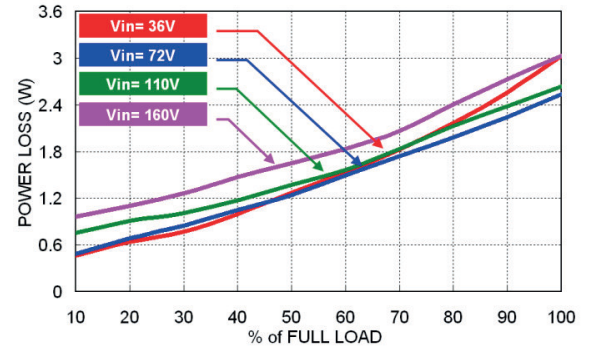

Remote on/off Voltage Start-Up Characteristic

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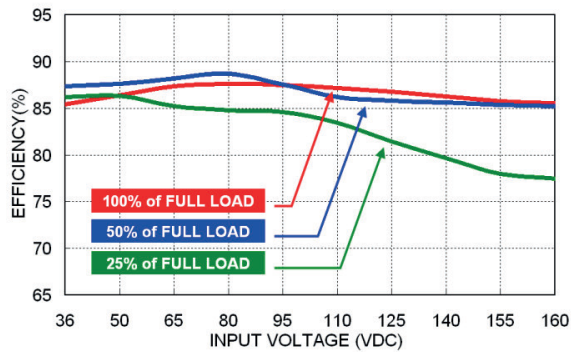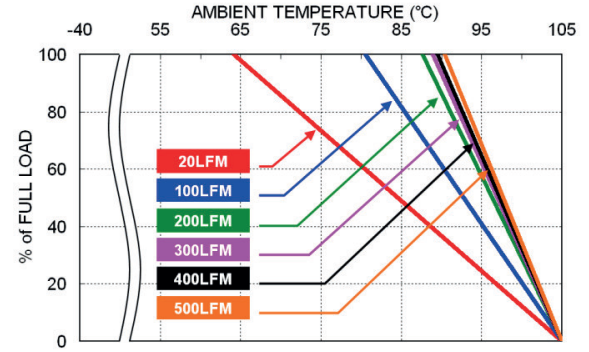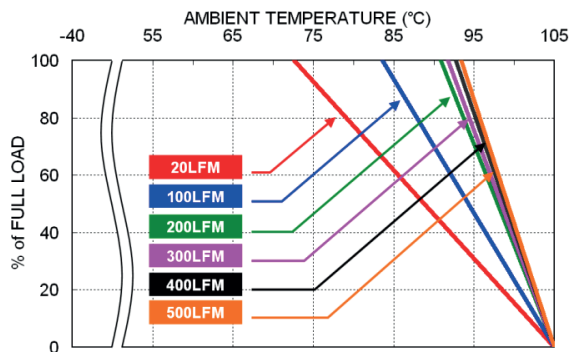
THN 20-7211WIR

Efficiency vs Output Load

Power Dissipation versus Output Load
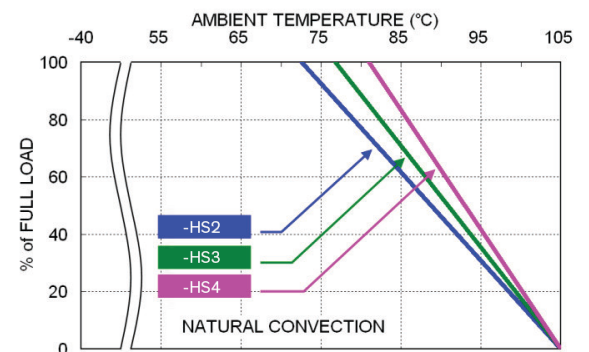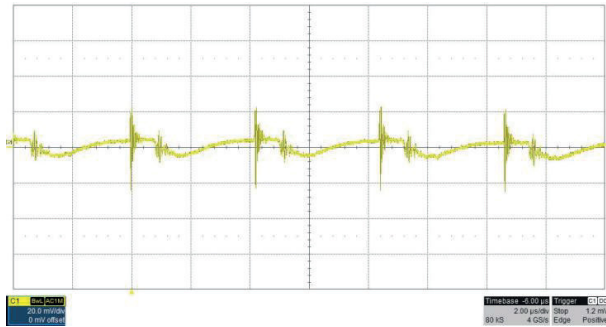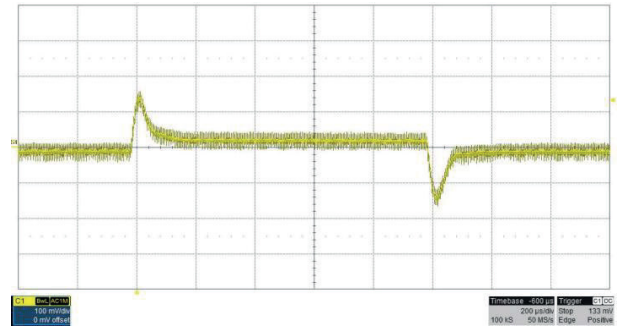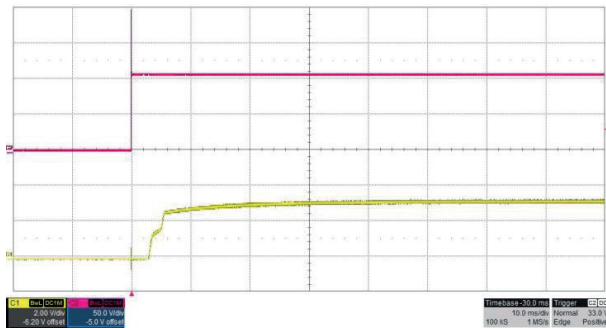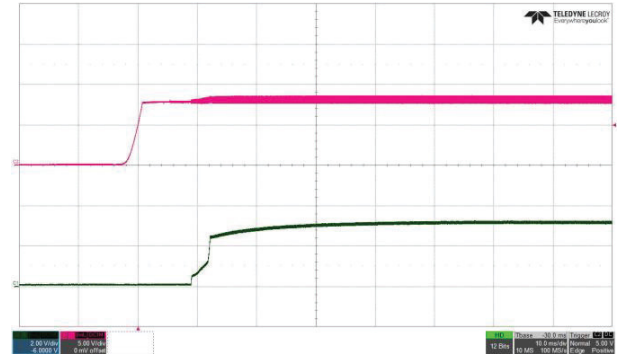

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-7211WIR

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

Transient Response to Dynamic Load Change (25%)

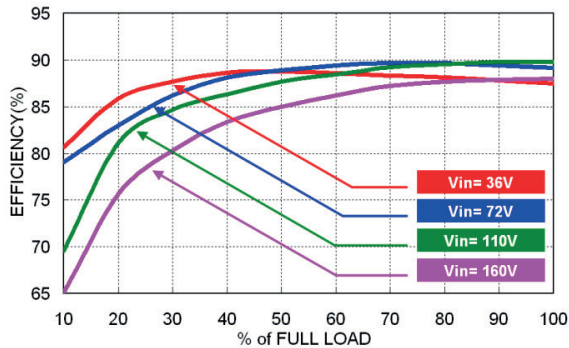Typical Input Start-Up and Output Rise Characteristic

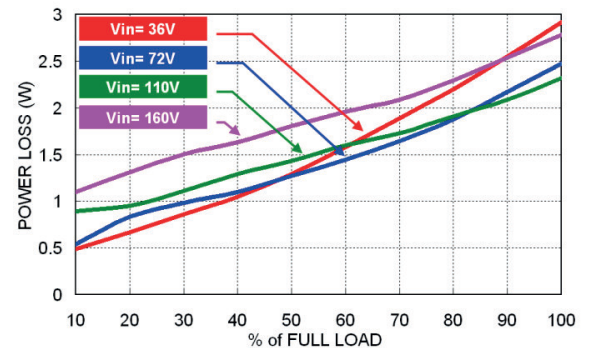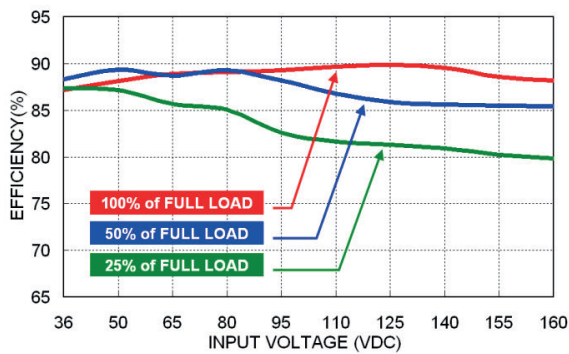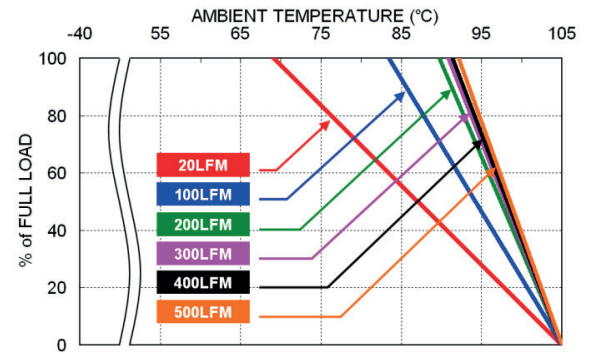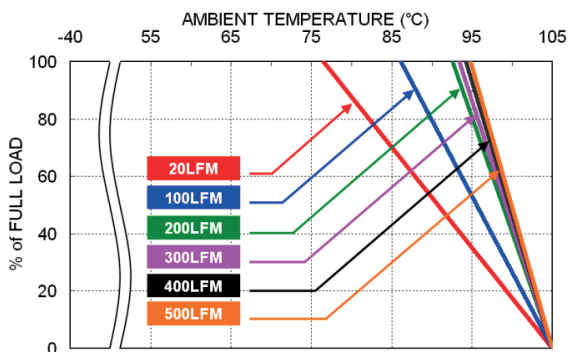Remote on/off Voltage Start-Up Characteristic

THN 20-7212WIR

Efficiency vs Output Load

Power Dissipation versus Output Load

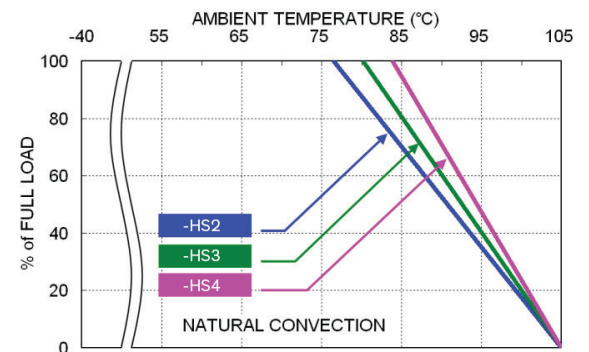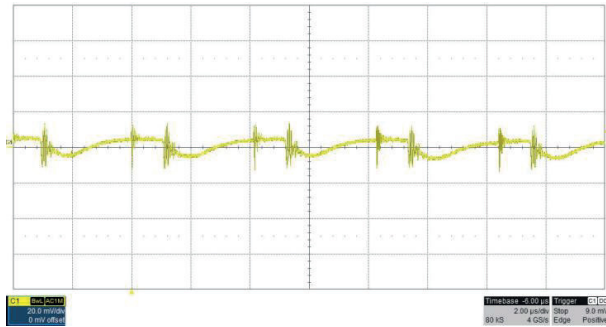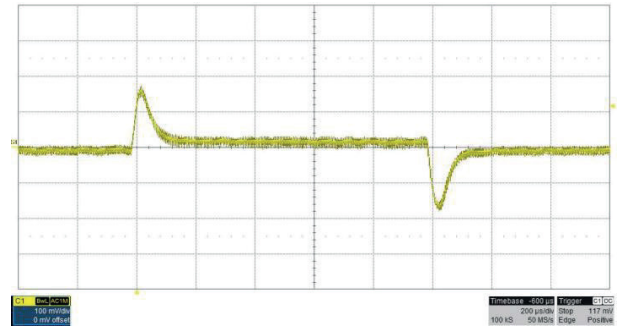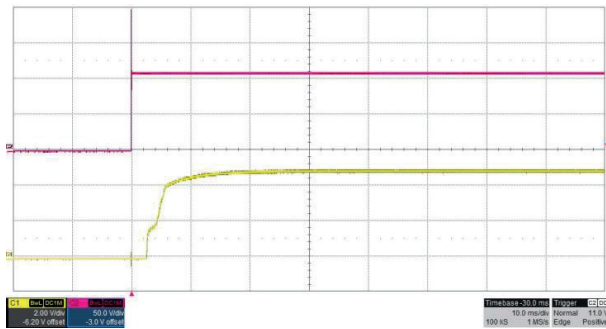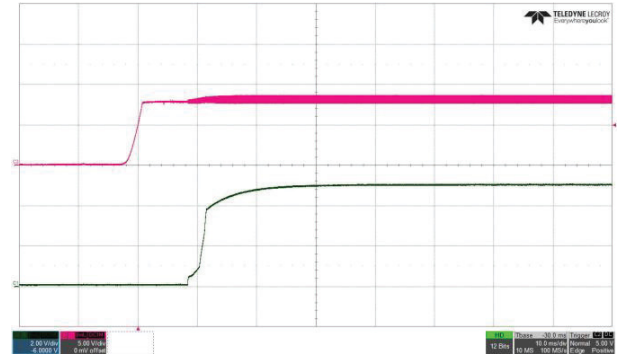### Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)

THN 20-7212WIR

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

Transient Response to Dynamic Load Change (25%)

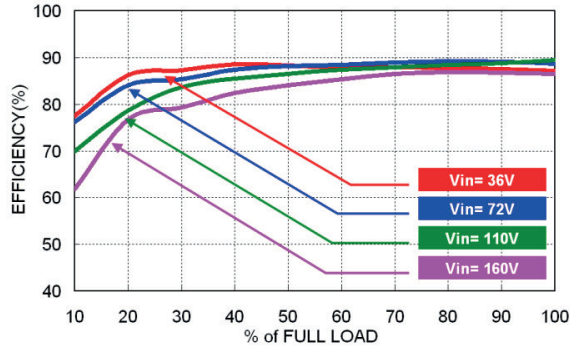Typical Input Start-Up and Output Rise Characteristic
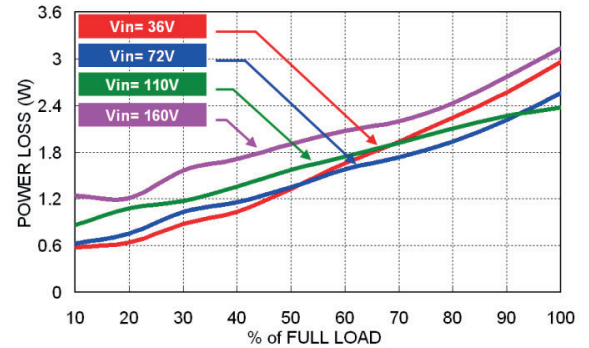

Remote on/off Voltage Start-Up Characteristic

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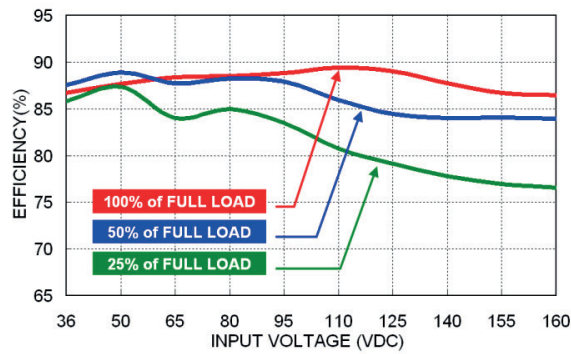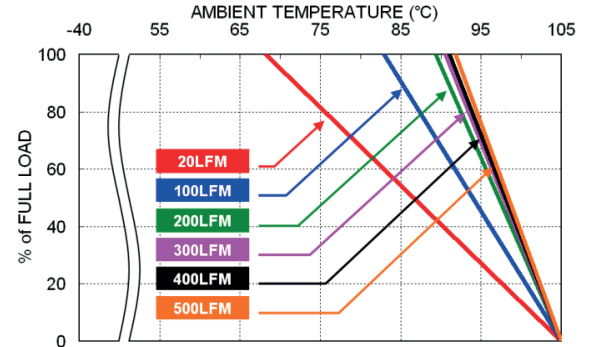
THN 20-7213WIR

Efficiency vs Output Load

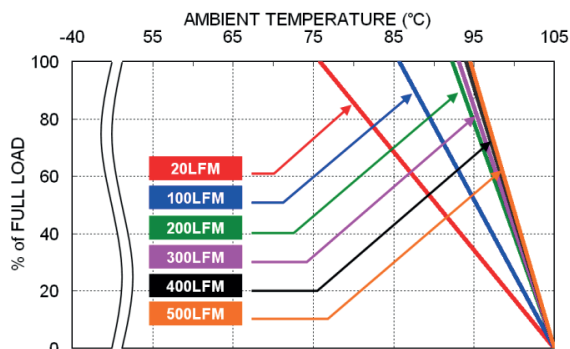### Power Dissipation versus Output Load
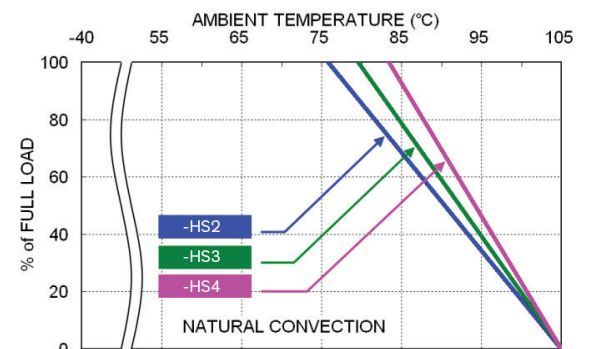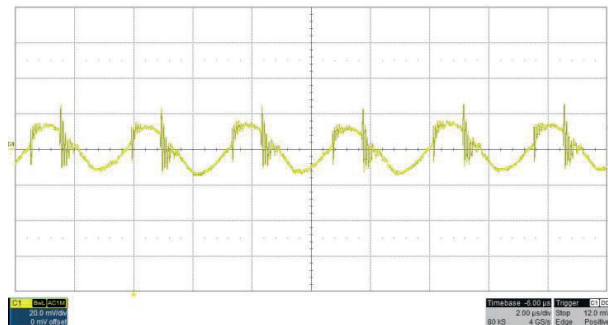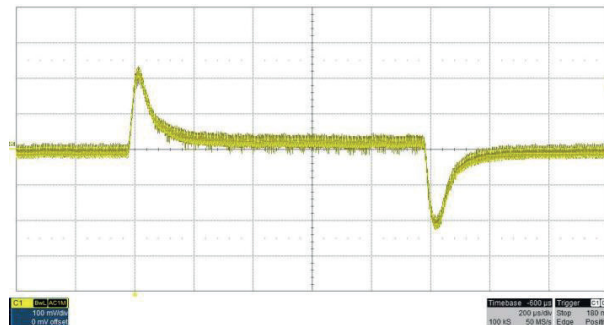

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
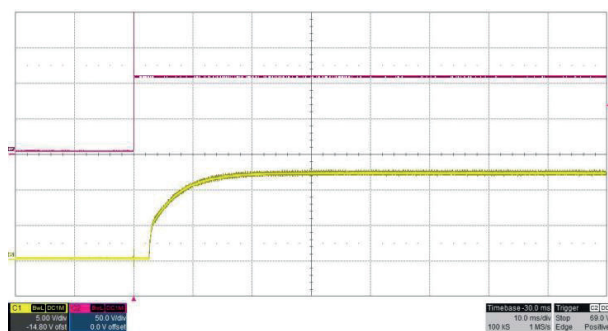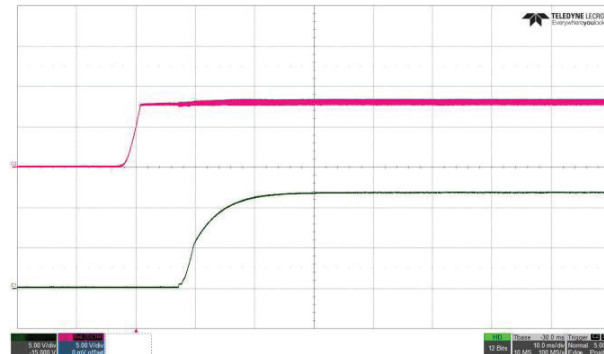
THN 20-7213WIR

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

Transient Response to Dynamic Load Change (25%)

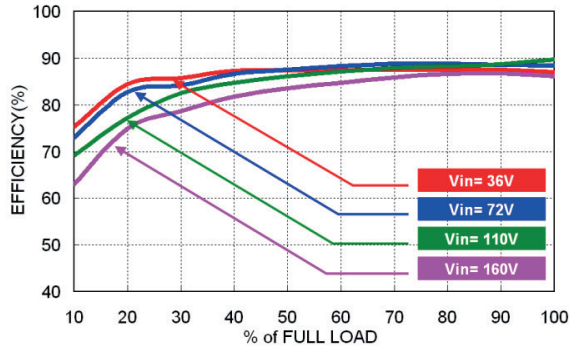Typical Input Start-Up and Output Rise Characteristic

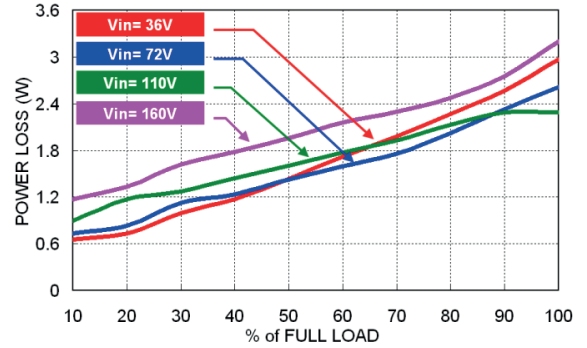Remote on/off Voltage Start-Up Characteristic
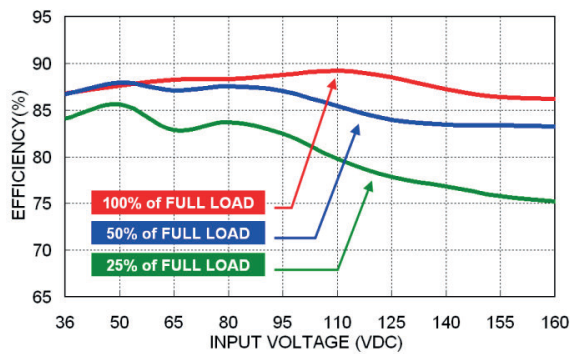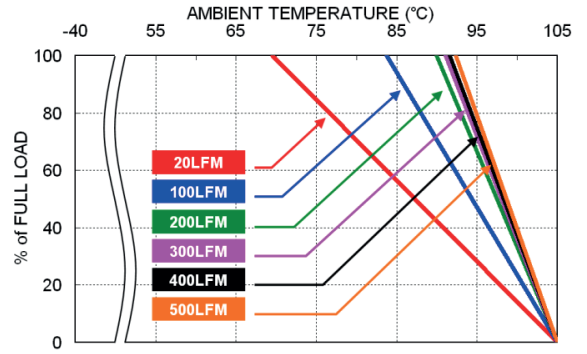
THN 20-7215WIR

Efficiency vs Output Load
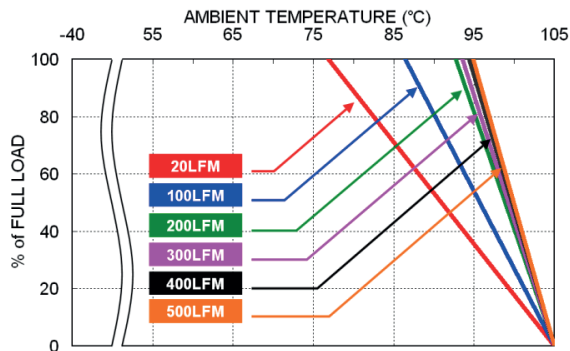

Power Dissipation versus Output Load
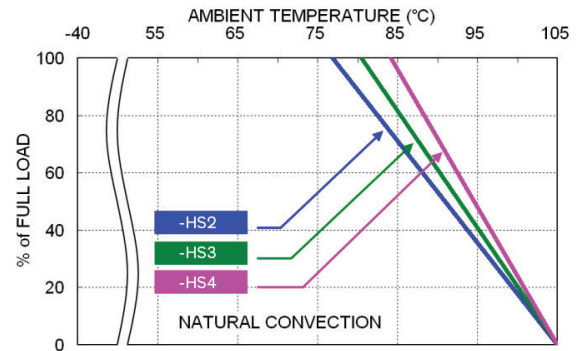

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

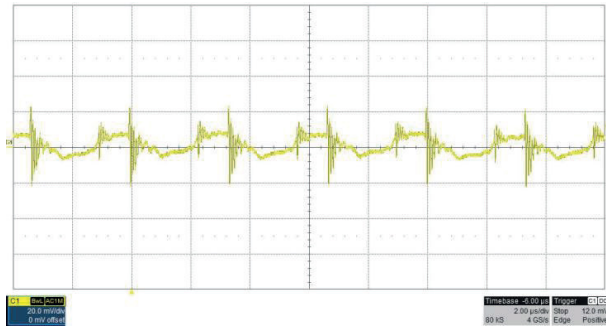Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
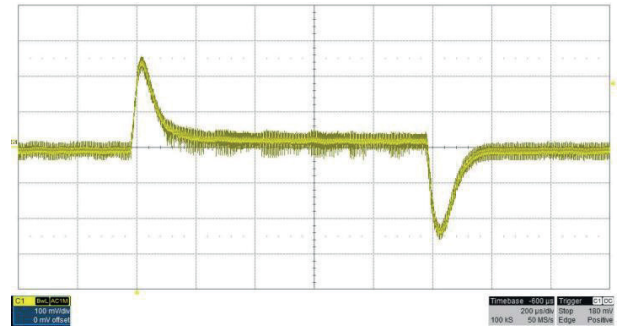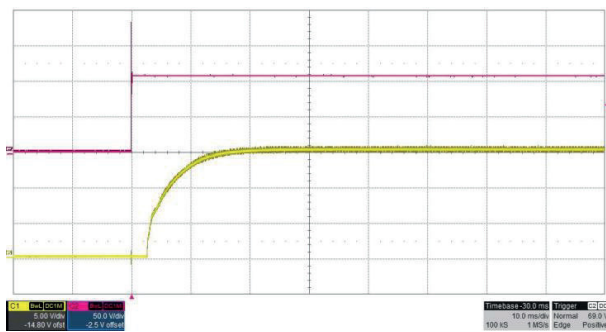
THN 20-7215WIR

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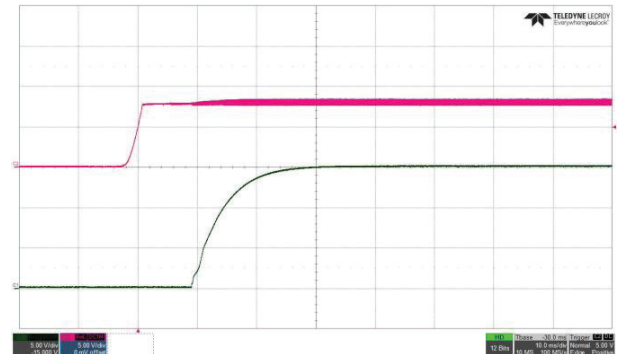(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)

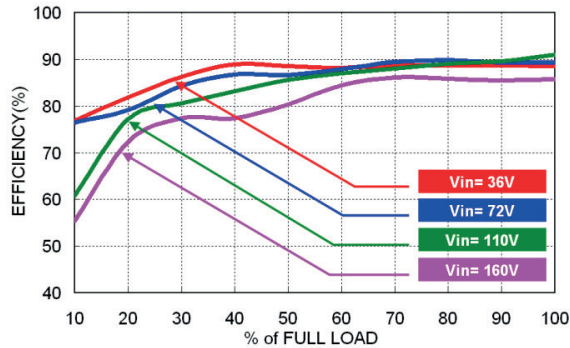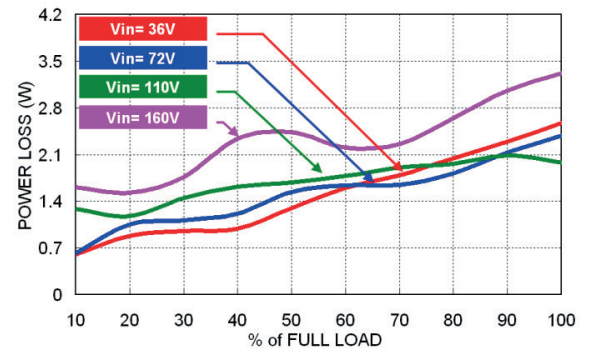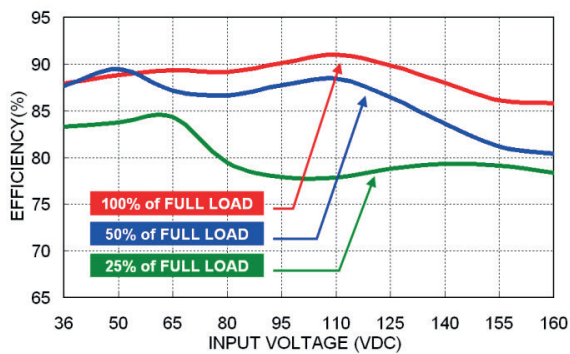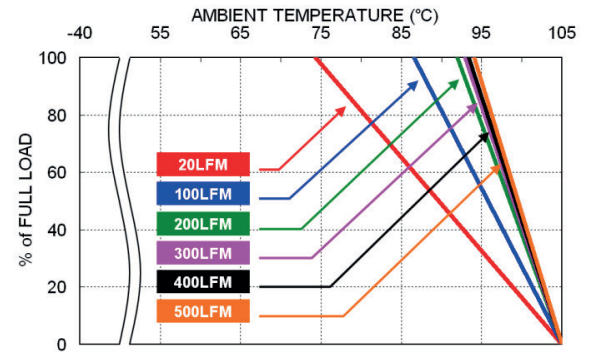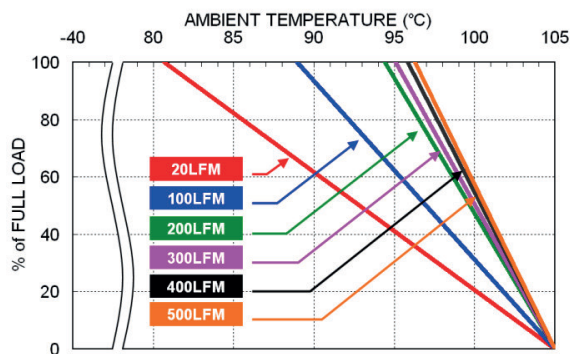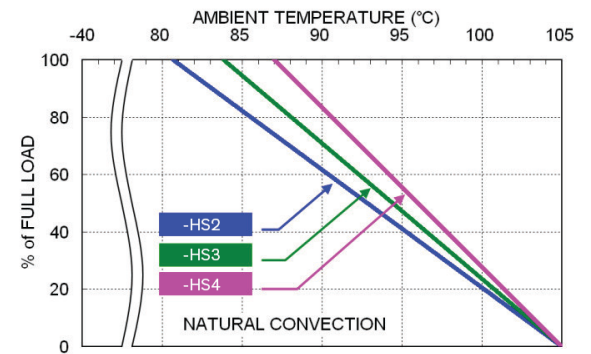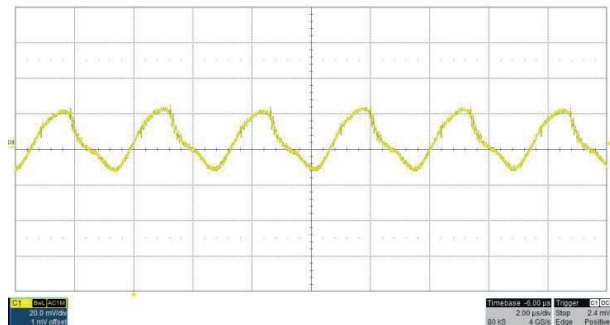Typical Input Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

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Efficiency vs Output Load

Power Dissipation versus Output Load

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
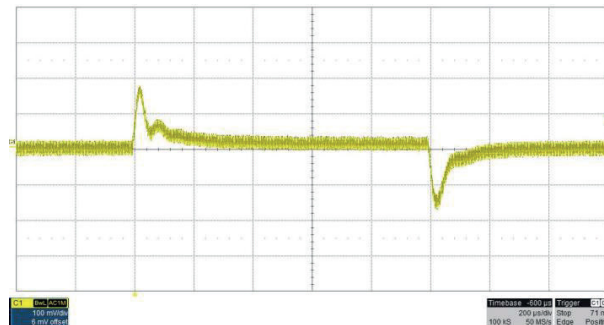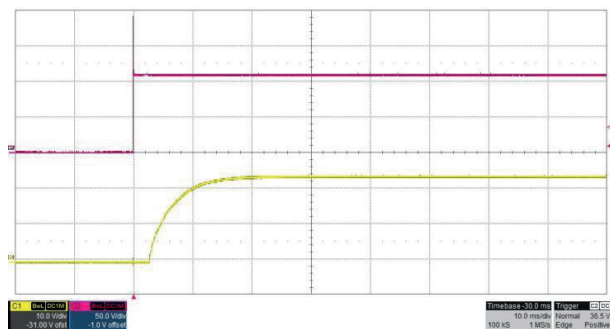
THN 20-7222WIR

Typical Output Ripple and Noise
(with external capacitor; see datasheet)
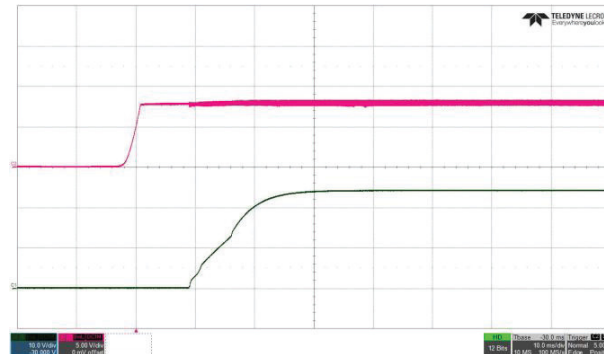
Transient Response to Dynamic Load Change (25%)

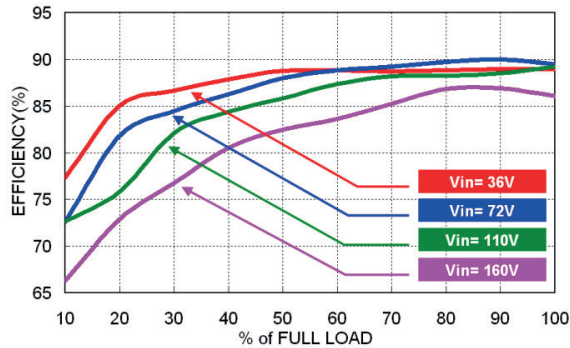Typical Input Start-Up and Output Rise Characteristic

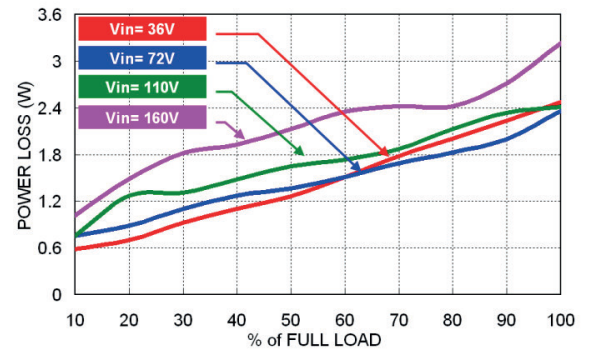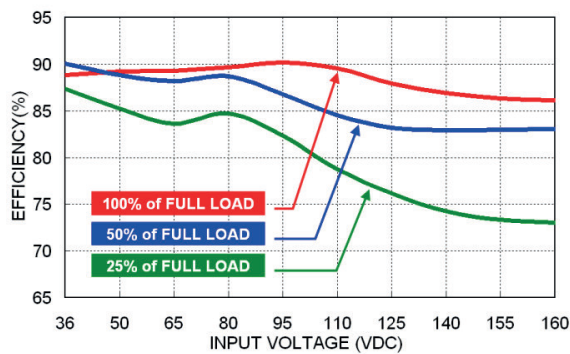Remote on/off Voltage Start-Up Characteristic

THN 20-7223WIR
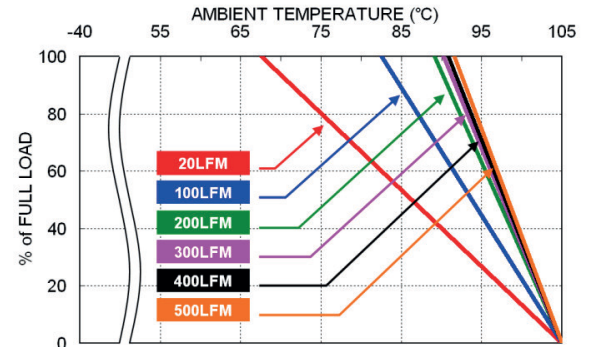
Efficiency vs Output Load
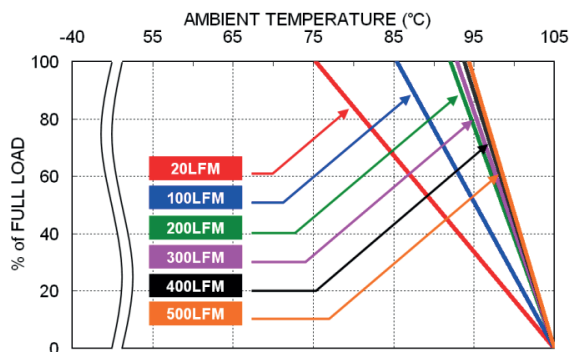

Power Dissipation versus Output Load

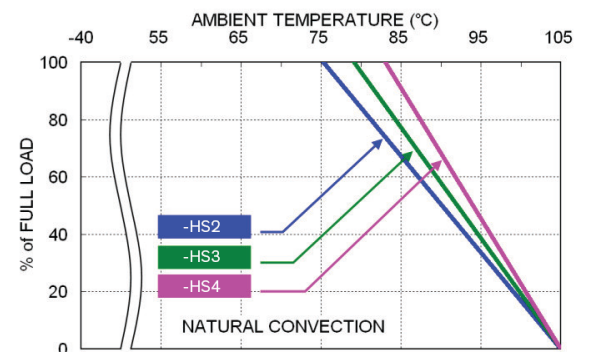### Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)
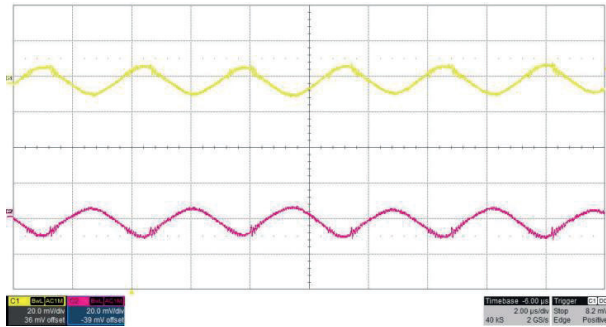

Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
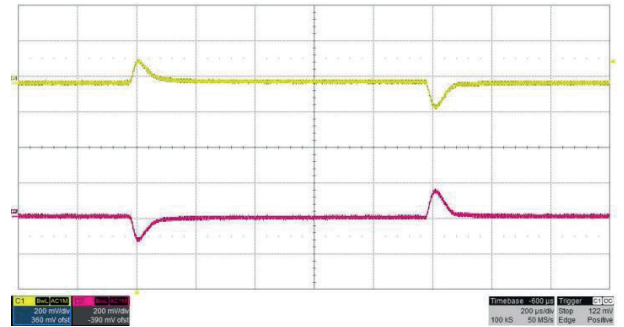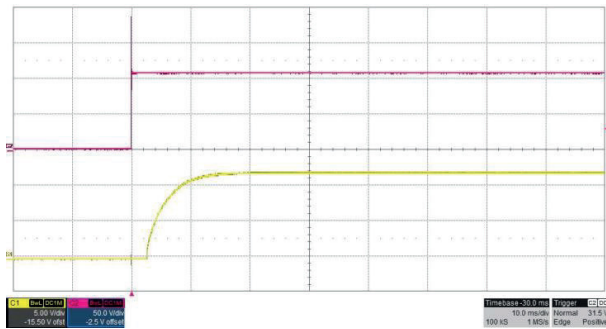
THN 20-7223WIR

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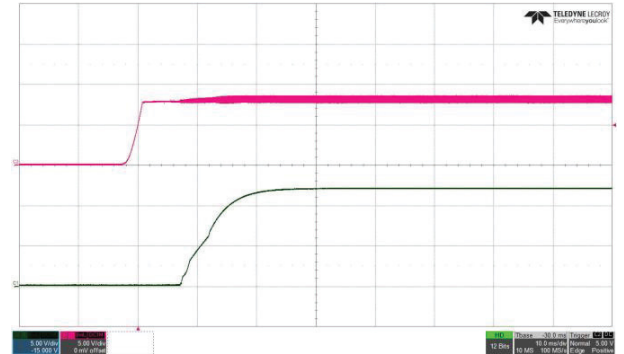(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)
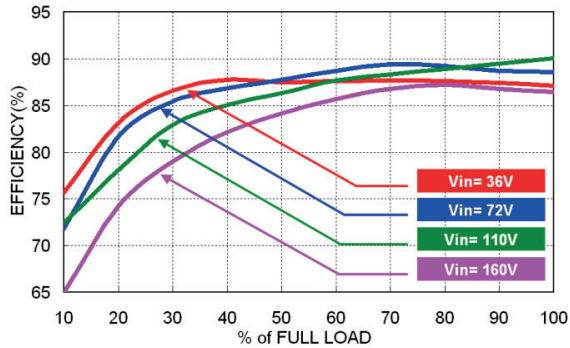
Typical Input Start-Up and Output Rise Characteristic

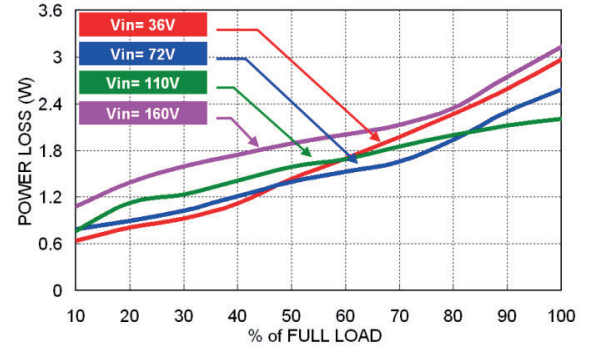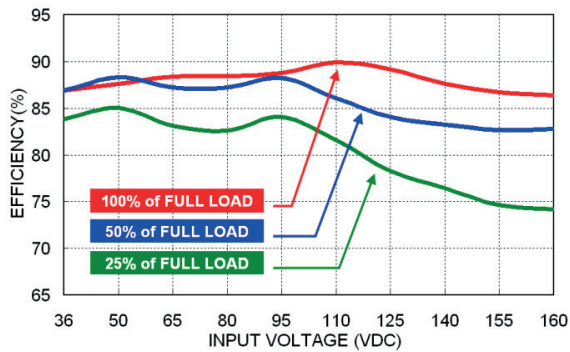Remote on/off Voltage Start-Up Characteristic

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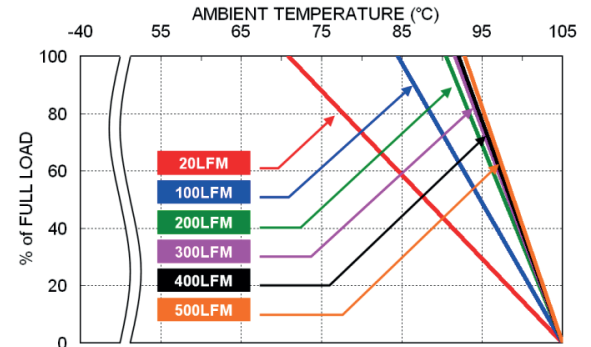### Efficiency vs Output Load

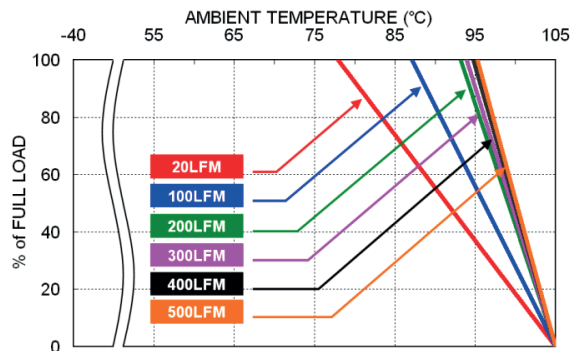### Power Dissipation versus Output Load
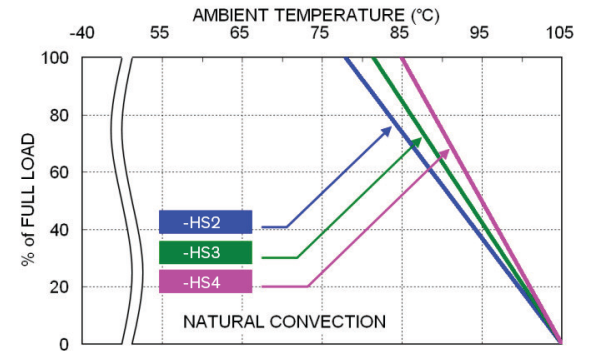

Efficiency vs Input Voltage

Derating Output Load versus Ambient Temperature

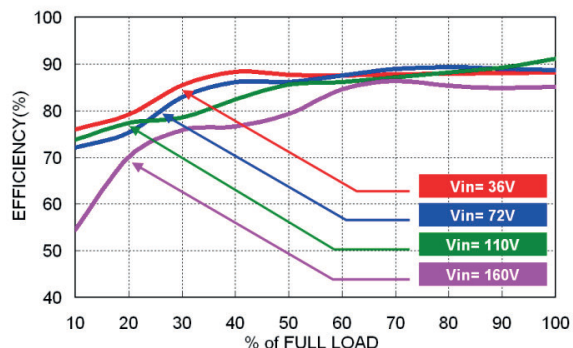### Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2)

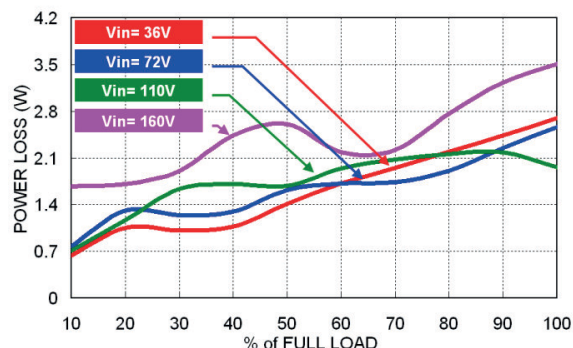### Derating Output Load versus Ambient Temperature with Heatsink (THN-HS2 / THN-HS3 / THN-HS4)
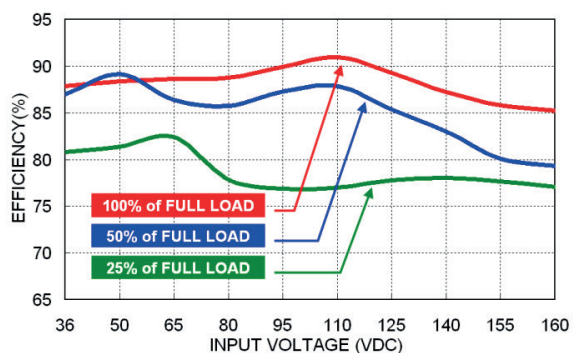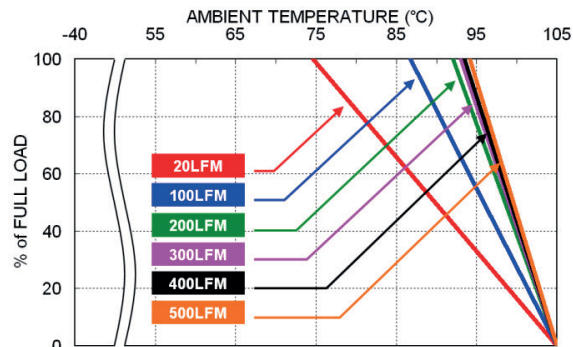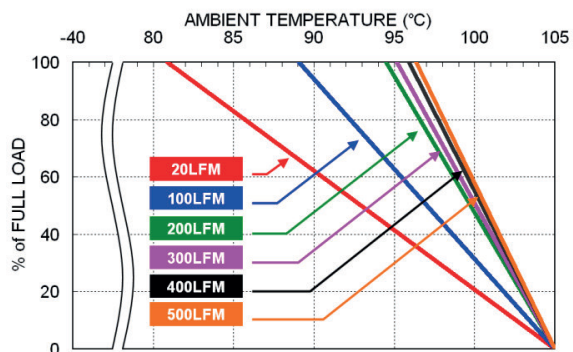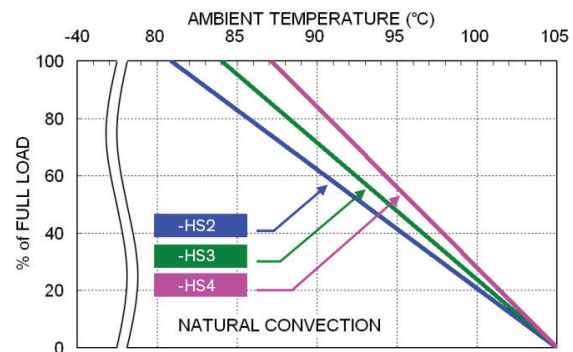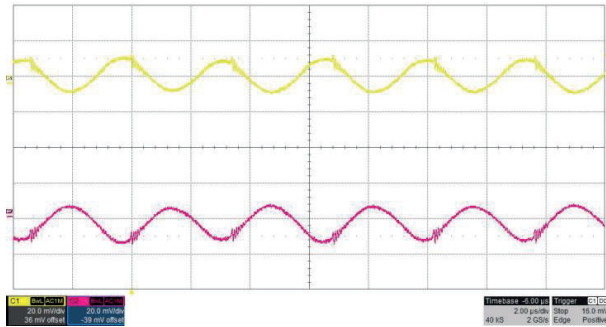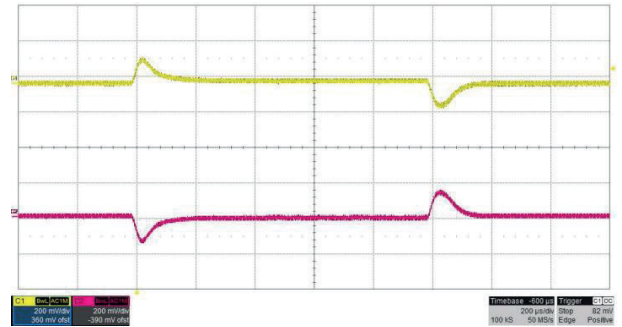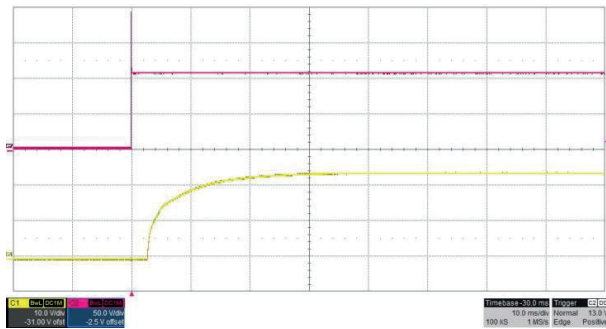
THN 20-7225WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Input Start-Up and Output Rise Characteristic

Remote on/off Voltage Start-Up Characteristic

Specifications can be changed without notice!