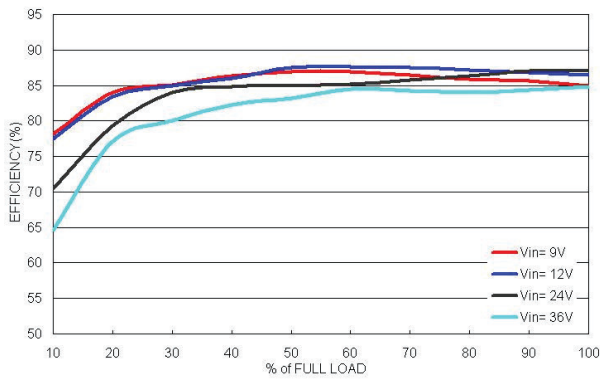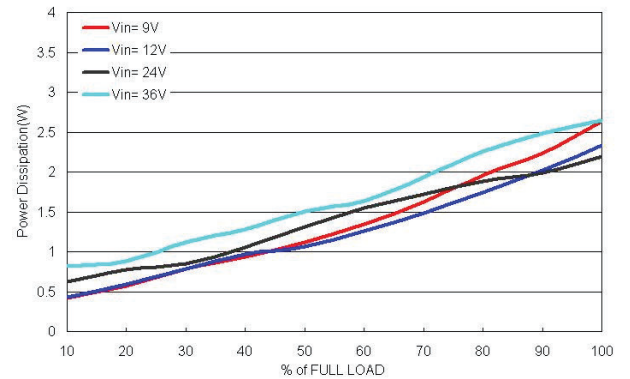## Characteristic Curves

TEN 20-2410WIR

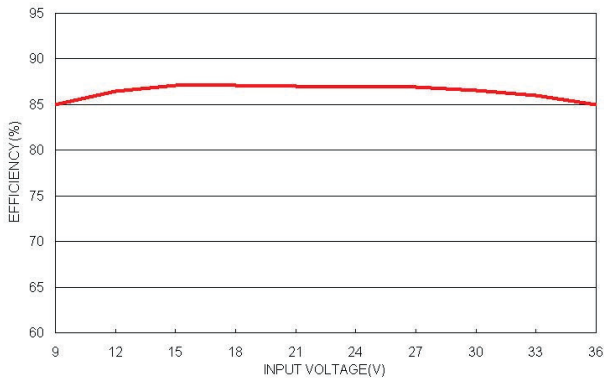Efficiency versus Output Load
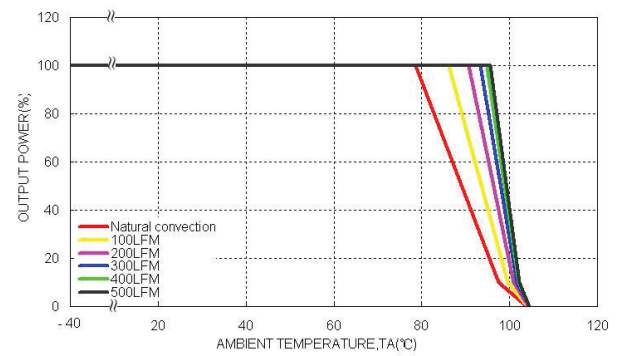

Efficiency versus Input Voltage

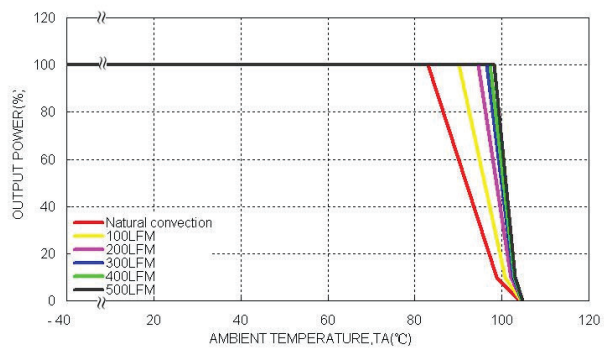Power Dissipation versus Output Load
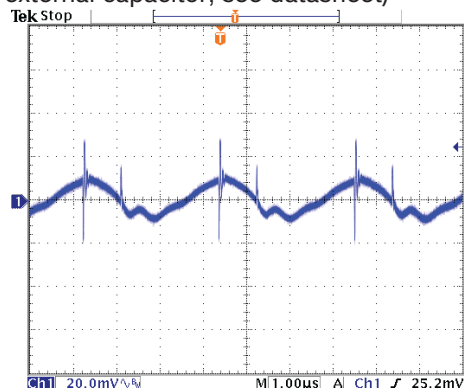

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature
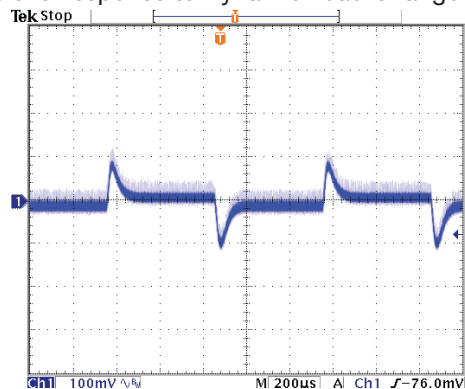(with Heatsink TEN-HS1)
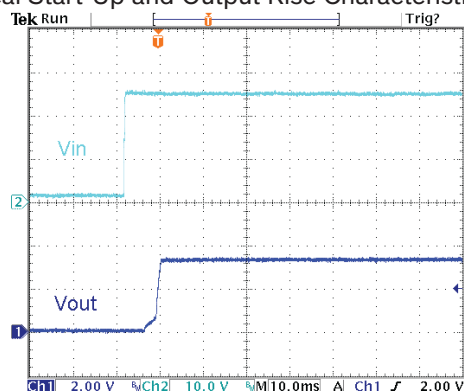
TEN 20-2410WIR

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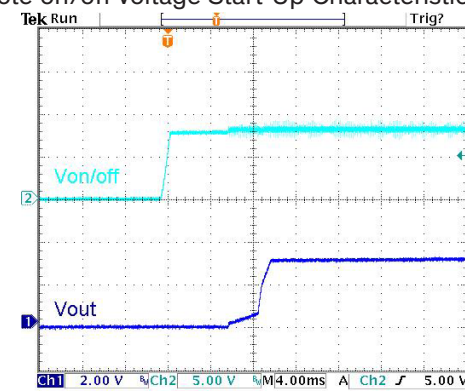(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)
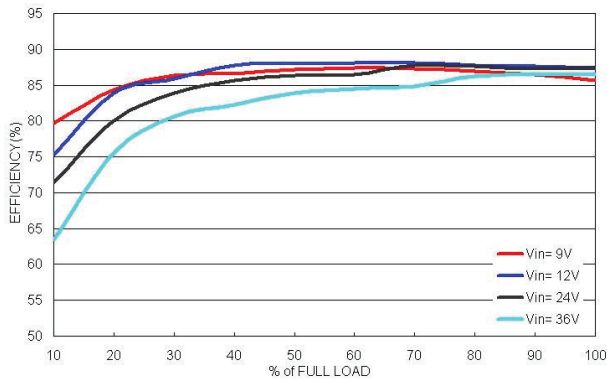

Typical Start-Up and Output Rise Characteristic

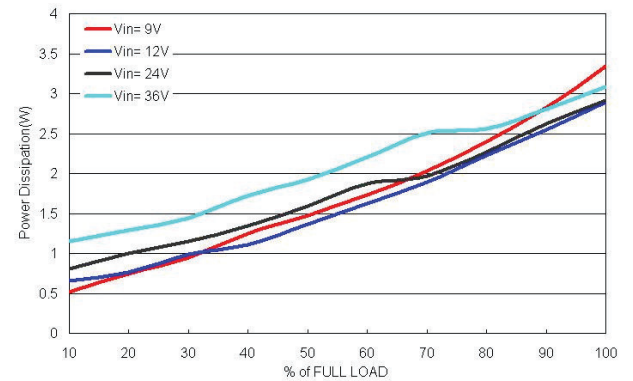Remote on/off Voltage Start-Up Characteristic

TRACO POWER

TEN 20-2411WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

TEN 20-2411WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic

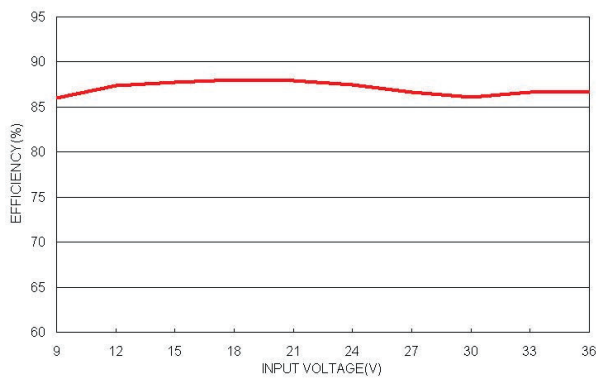Remote on/off Voltage Start-Up Characteristic

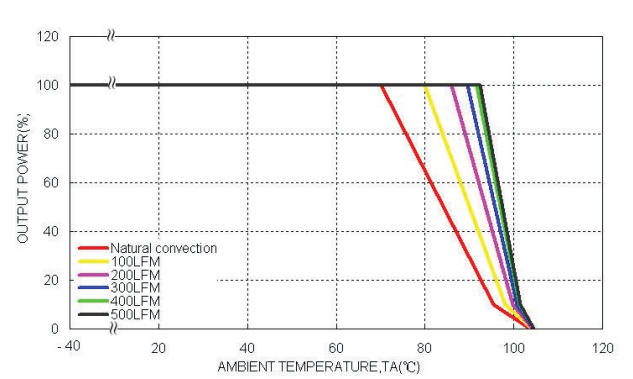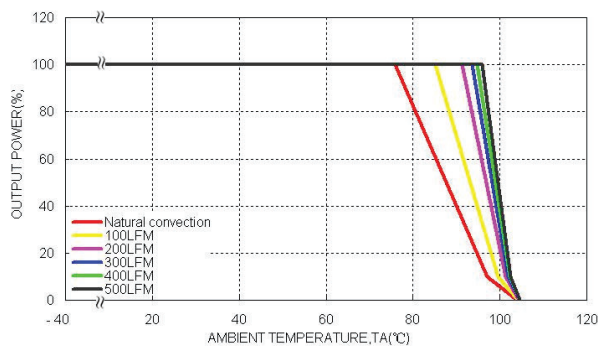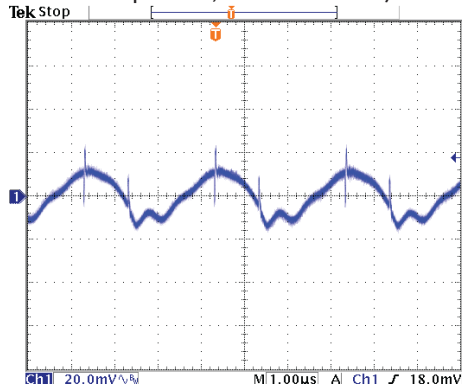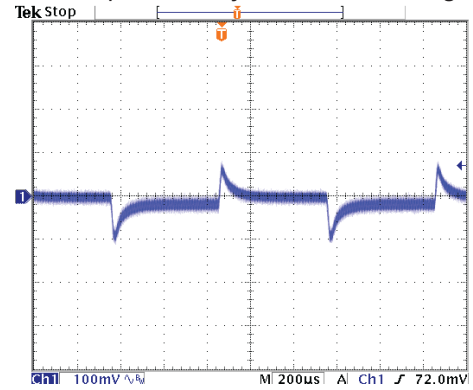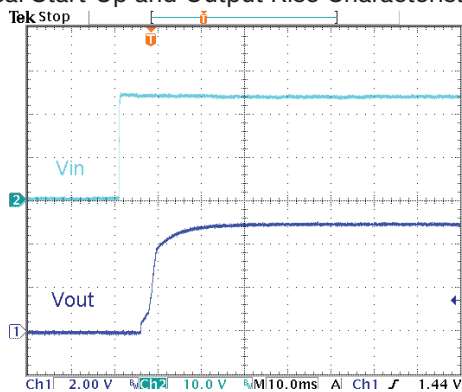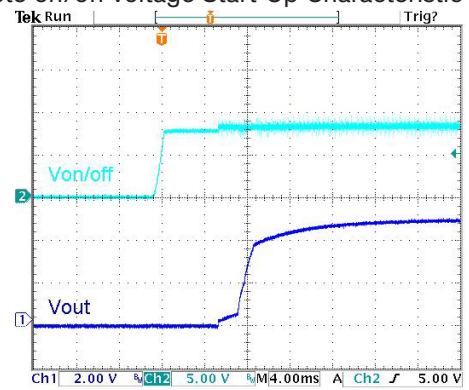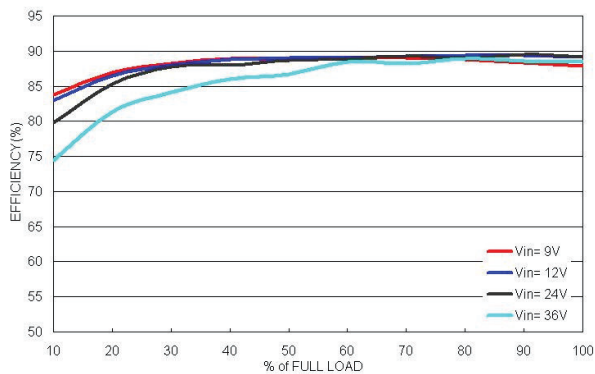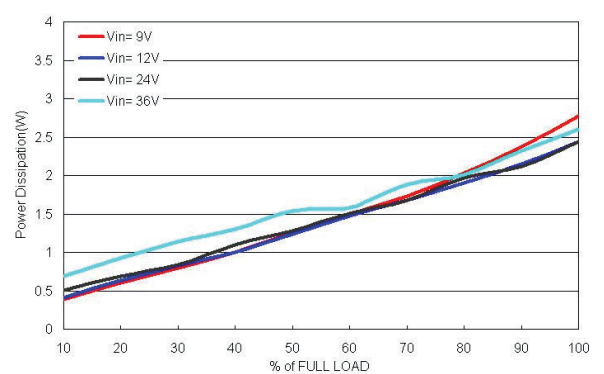## TEN 20-2412WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
(with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature
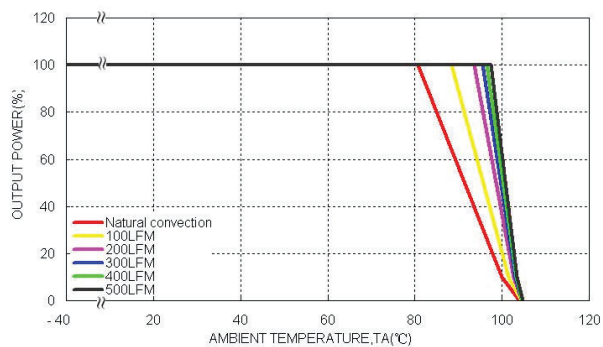
TEN 20-2412WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic

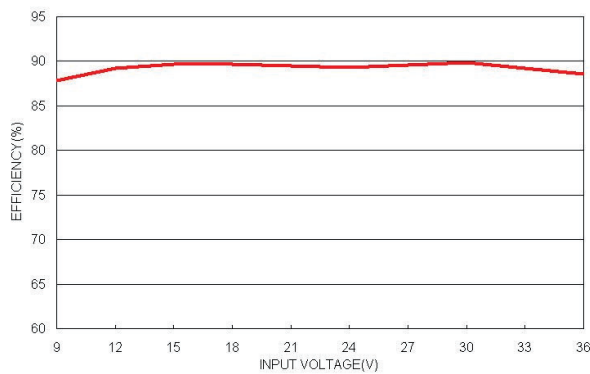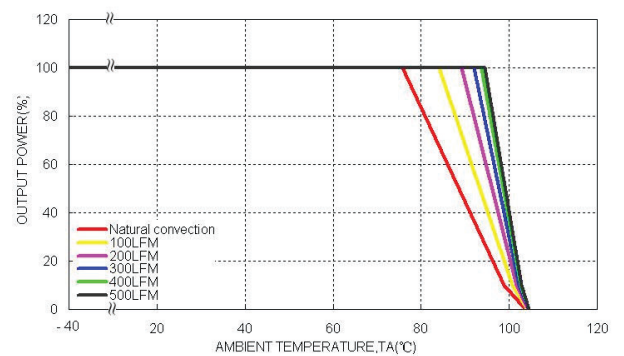Remote on/off Voltage Start-Up Characteristic

TEN 20-2413WIR

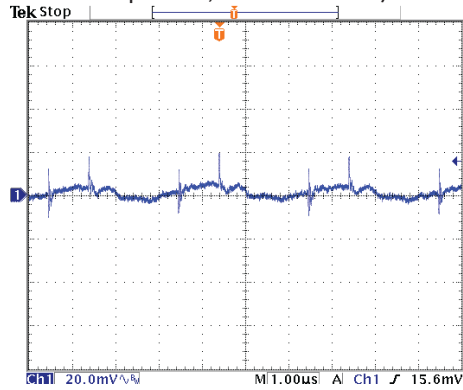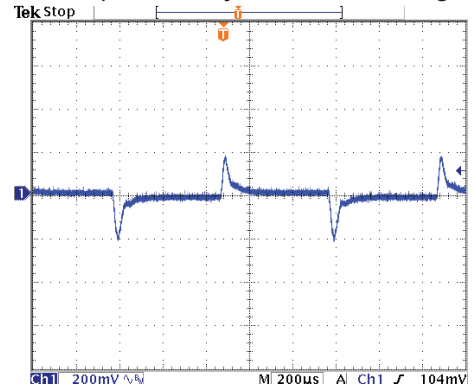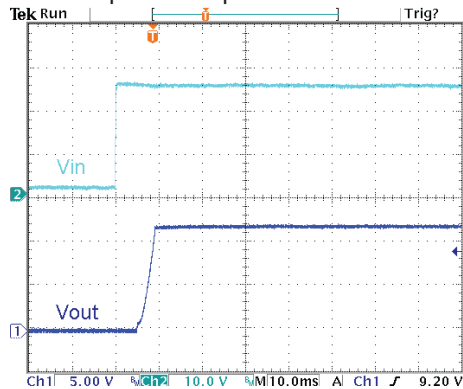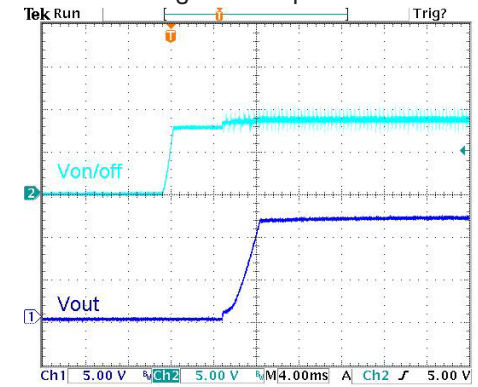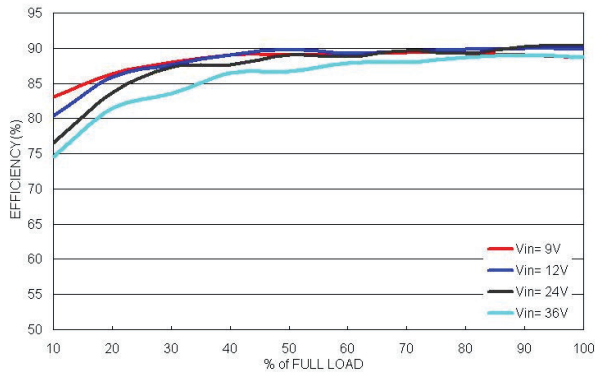Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature
(with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature
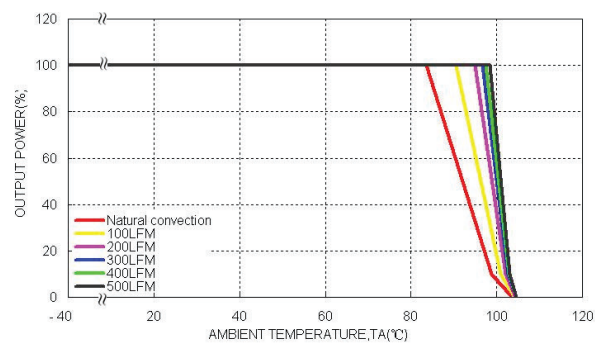
TEN 20-2413WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic
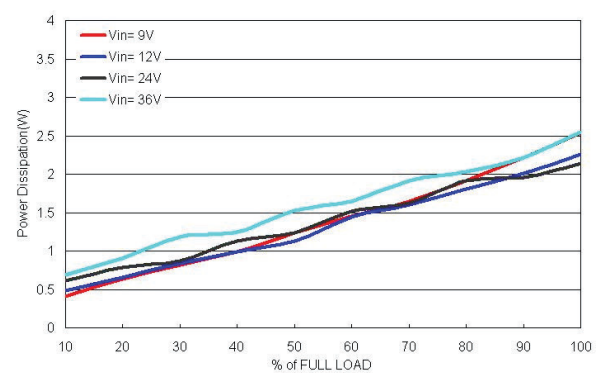

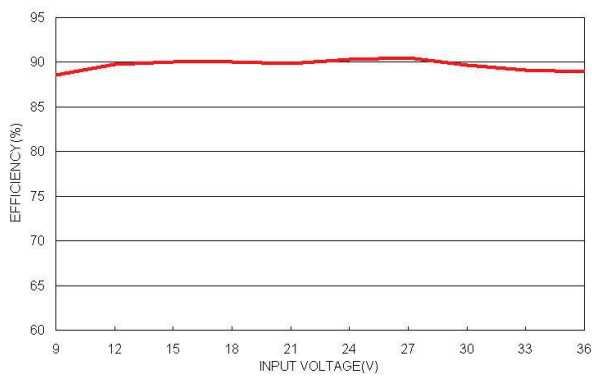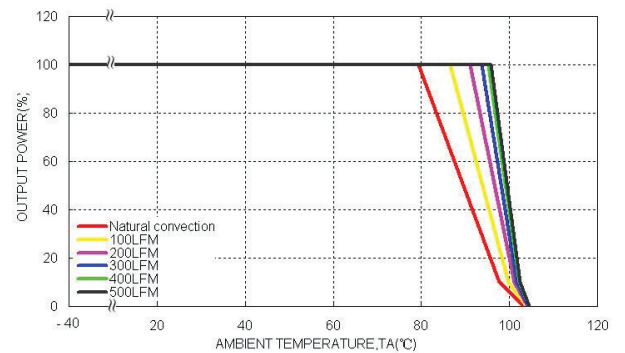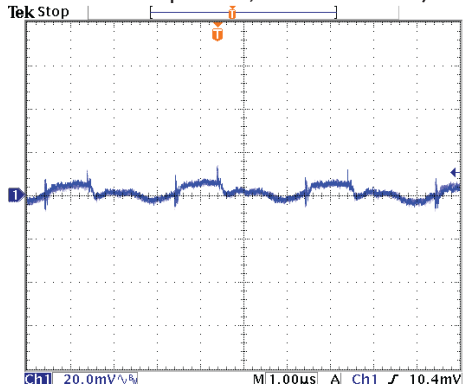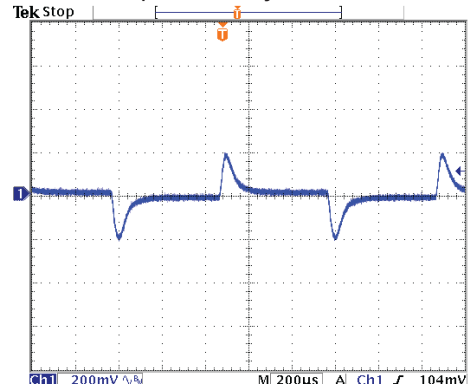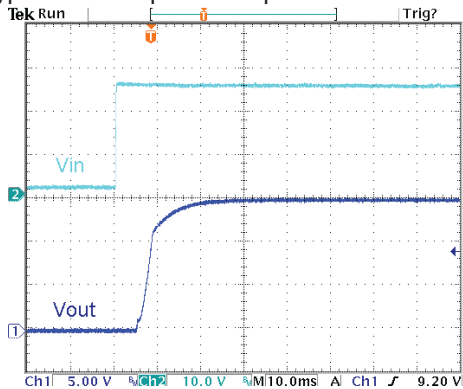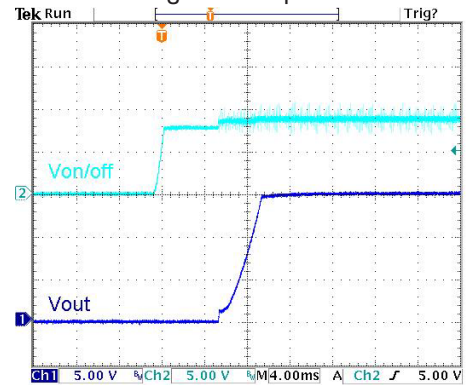Remote on/off Voltage Start-Up Characteristic

TEN 20-2422WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature
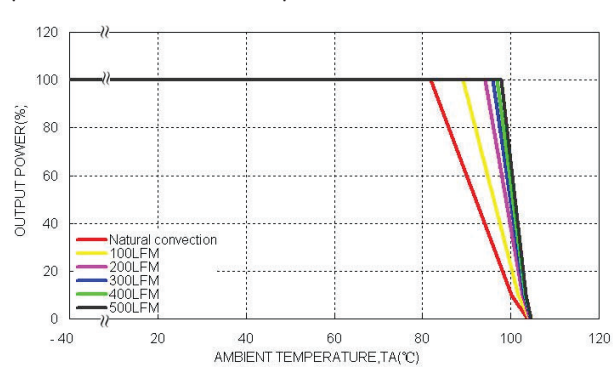
TEN 20-2422WIR

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

Transient Response to Dynamic Load Change (25%)
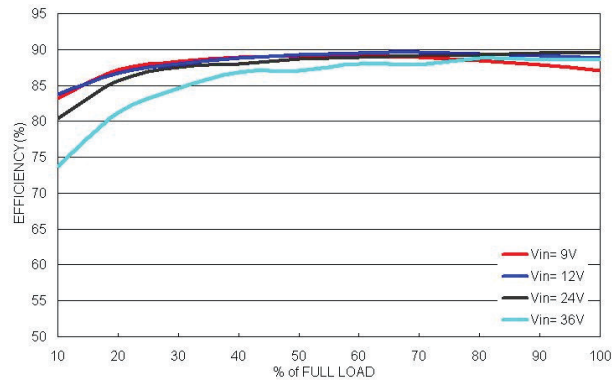

Typical Start-Up and Output Rise Characteristic

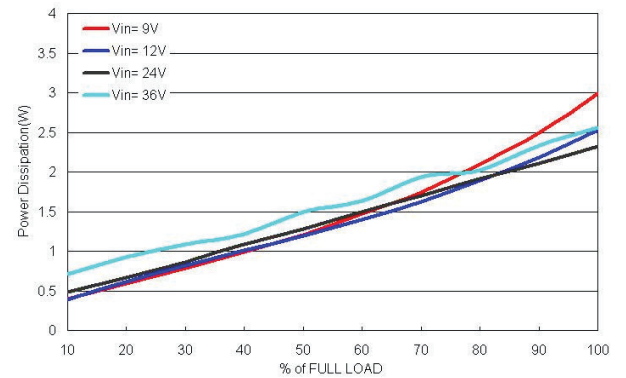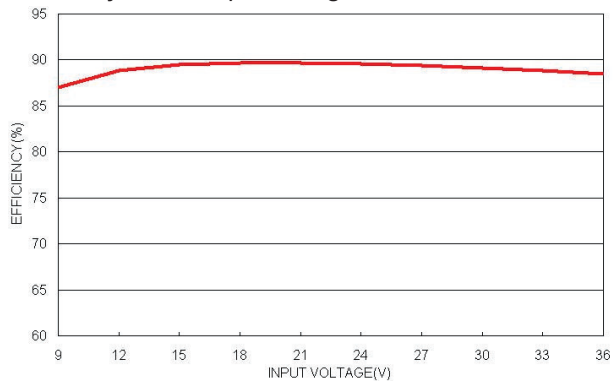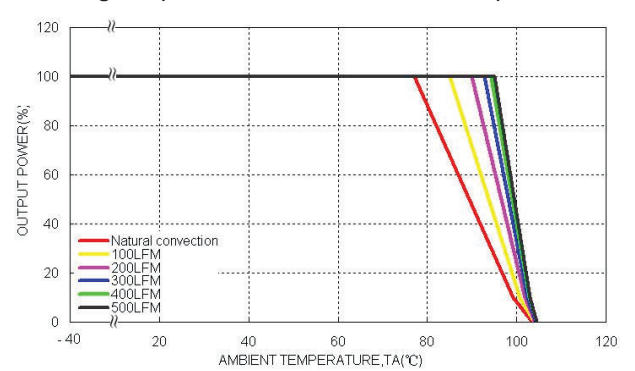Remote on/off Voltage Start-Up Characteristic
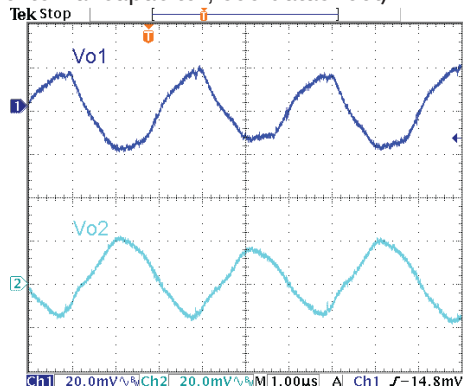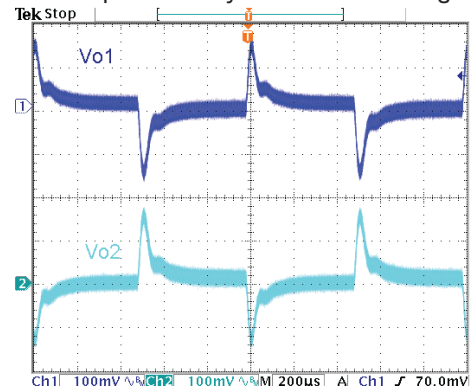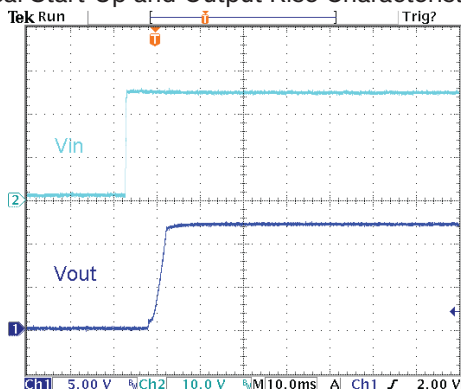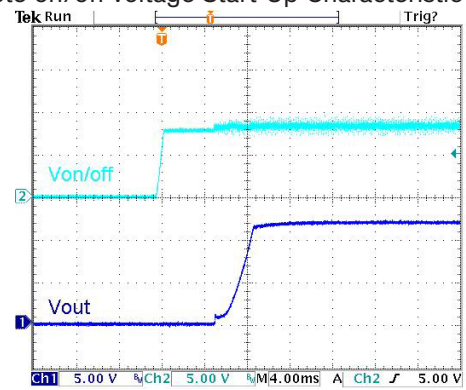
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TEN 20-2423WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

TEN 20-2423WIR

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

Transient Response to Dynamic Load Change (25%)

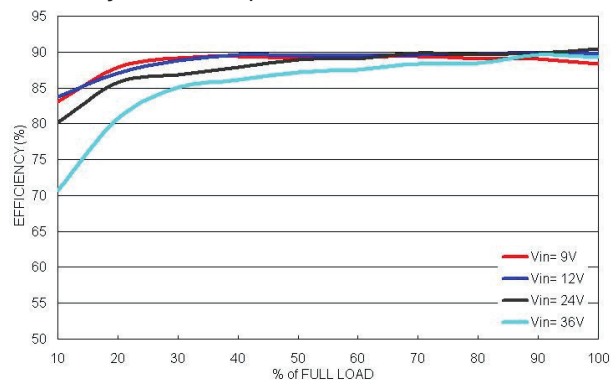Typical Start-Up and Output Rise Characteristic

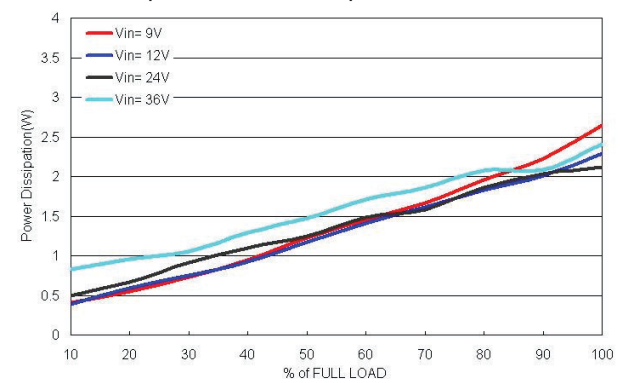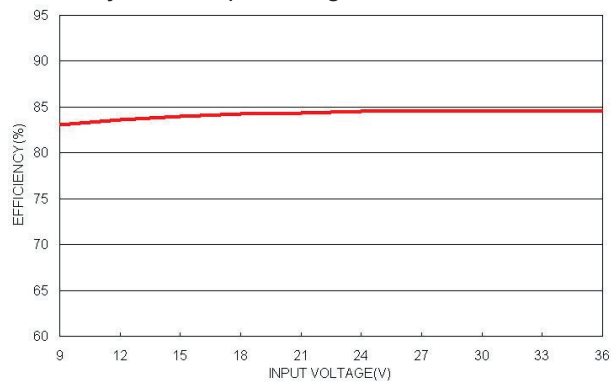Remote on/off Voltage Start-Up Characteristic

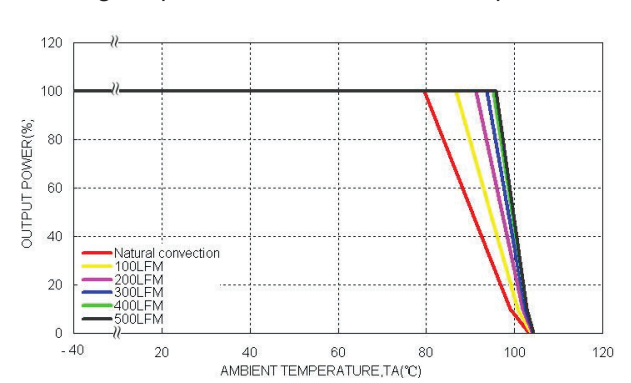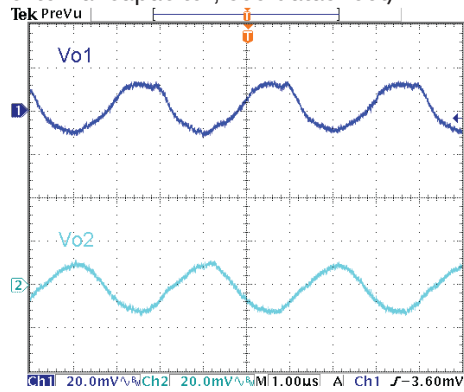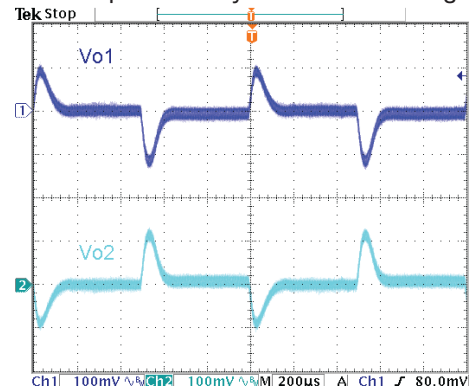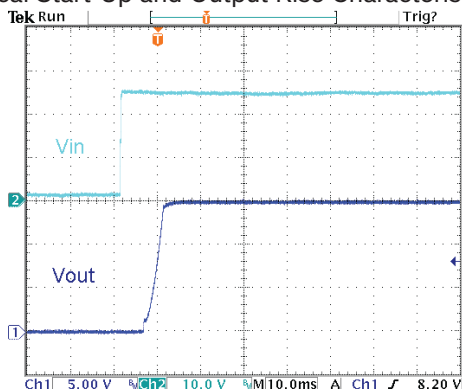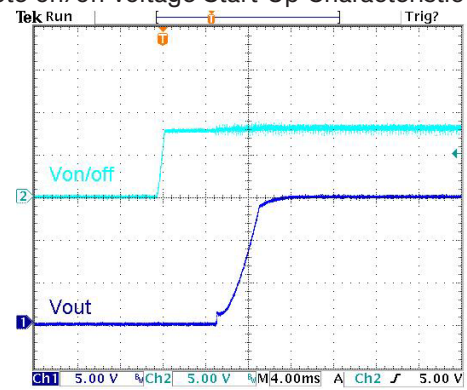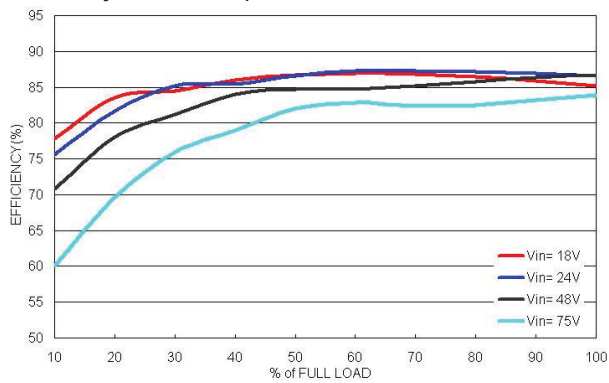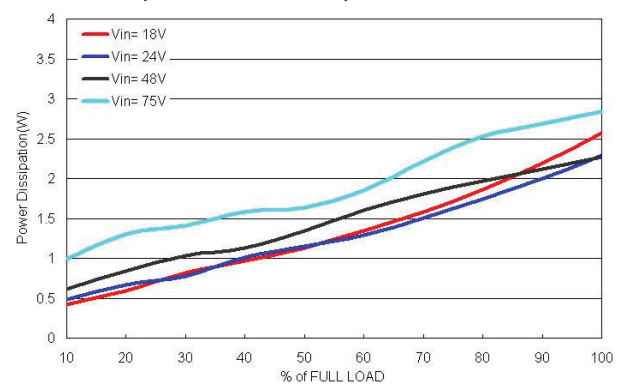## TEN 20-4810WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

III TRACO POWER
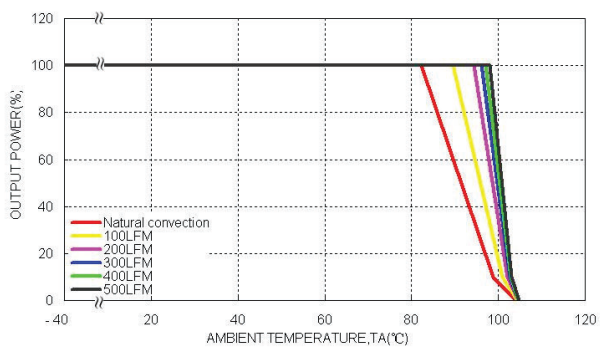
TEN 20-4810WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic

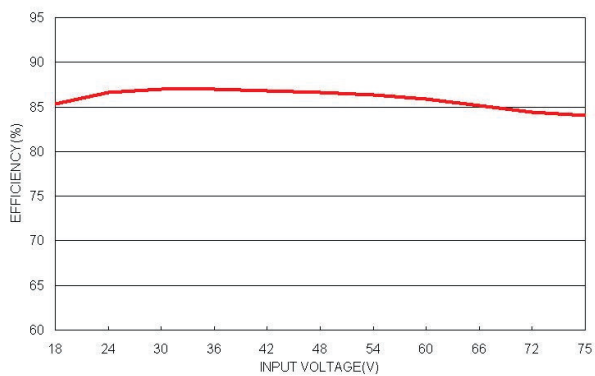Remote on/off Voltage Start-Up Characteristic
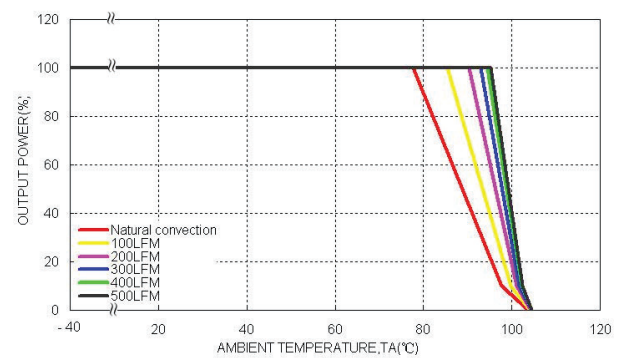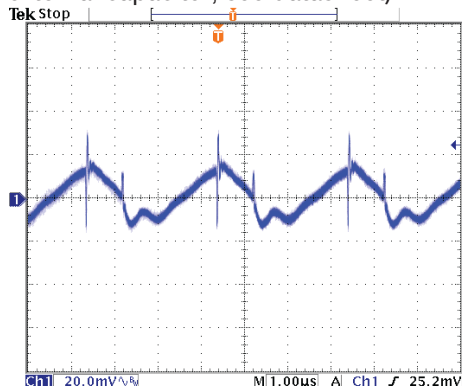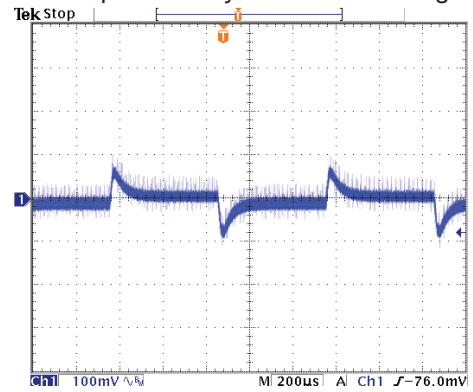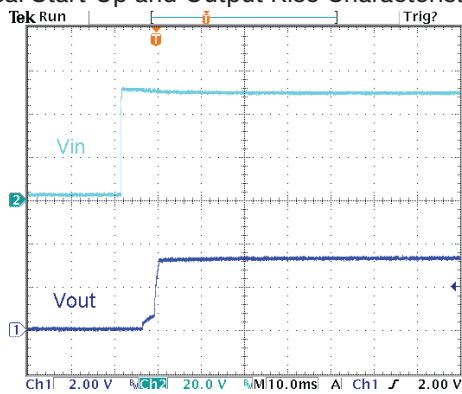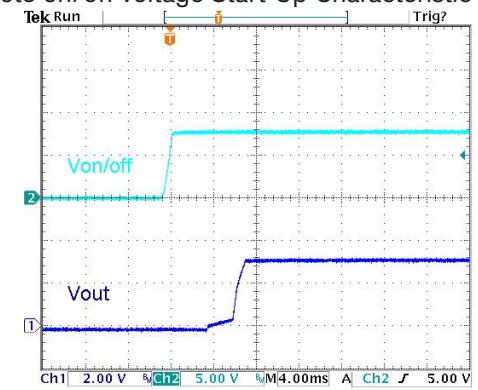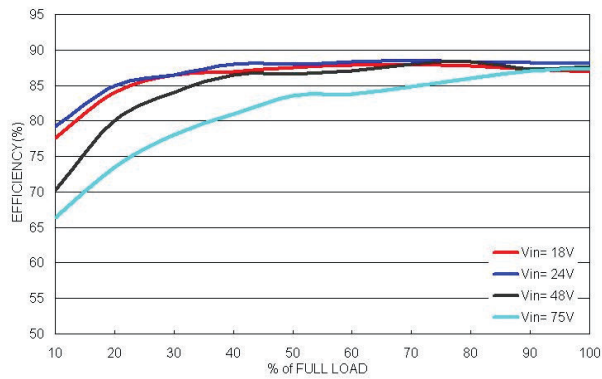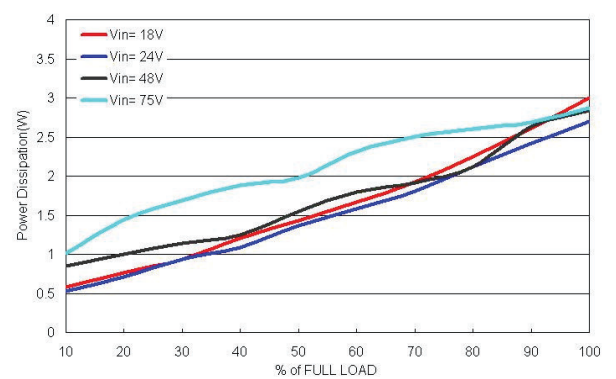
TEN 20-4811WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

III TRACO POWER
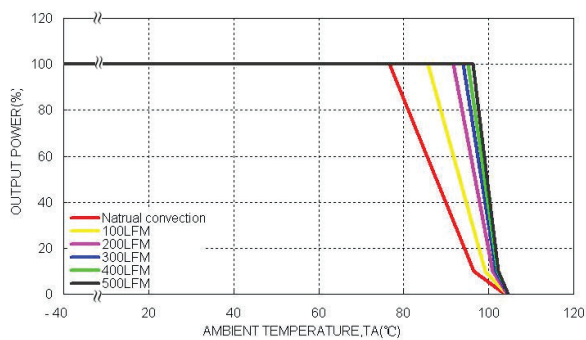
 TEN 20-4811WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic

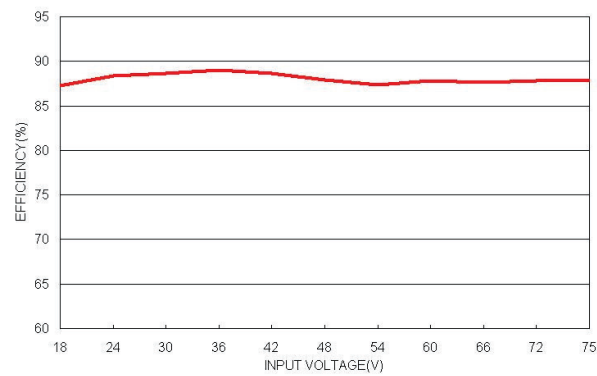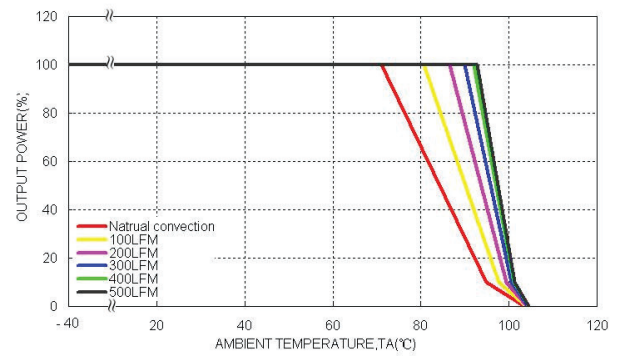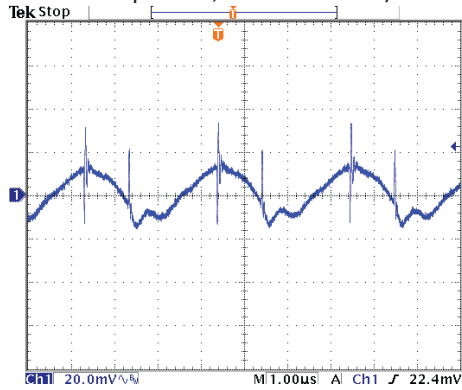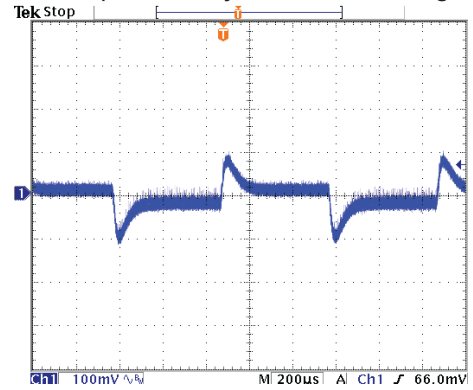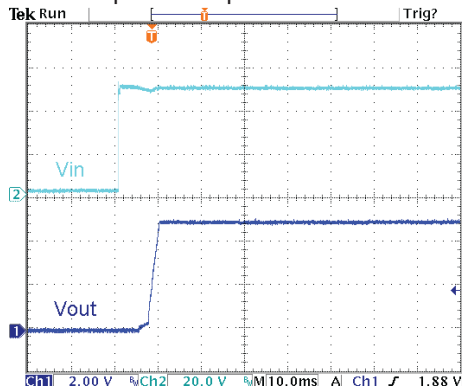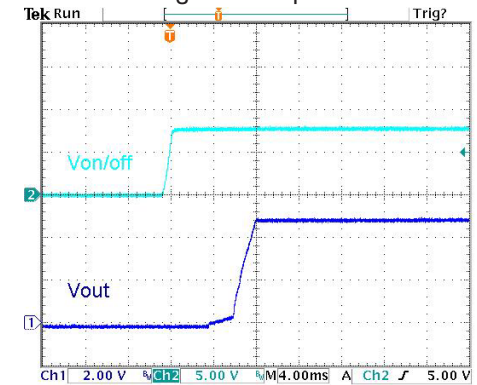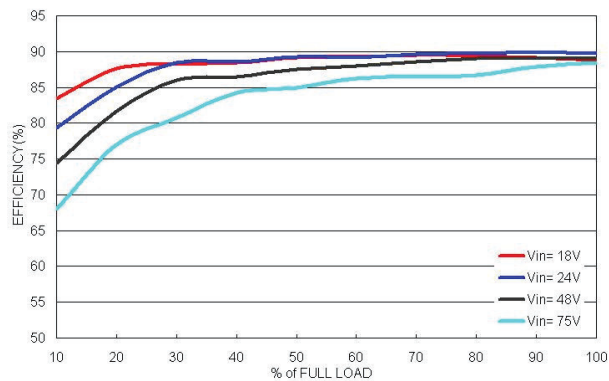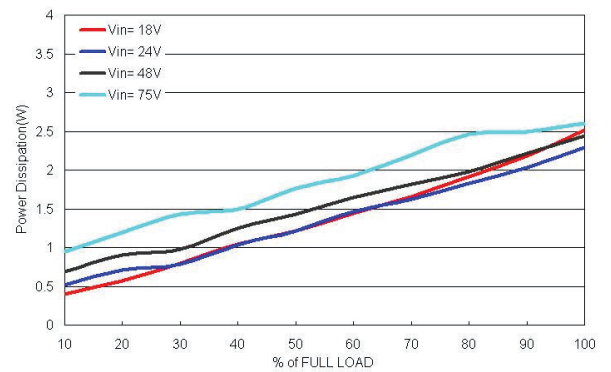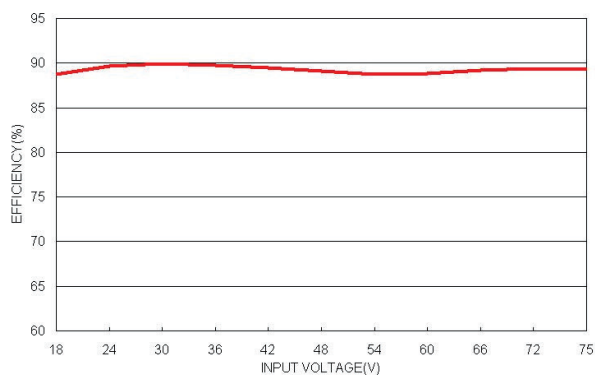Remote on/off Voltage Start-Up Characteristic
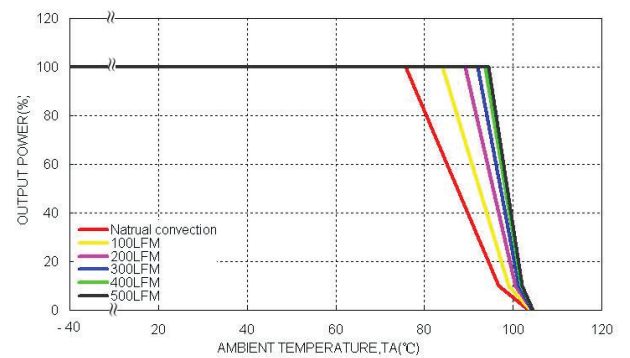
TEN 20-4812WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)
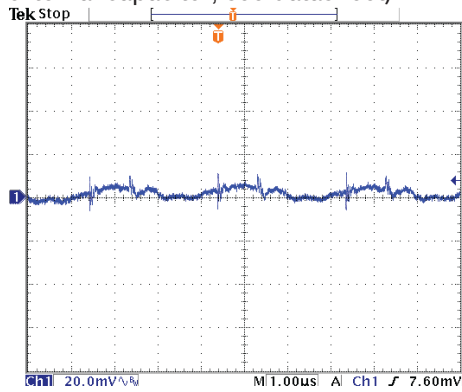

Power Dissipation versus Output Load

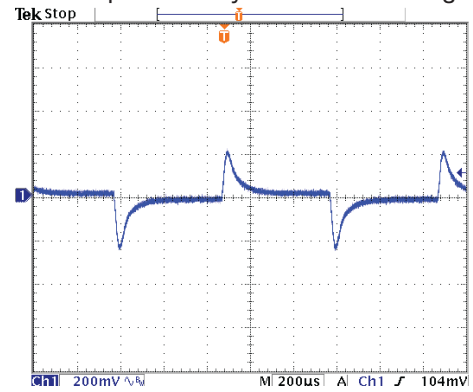
Derating Output Load versus Ambient Temperature
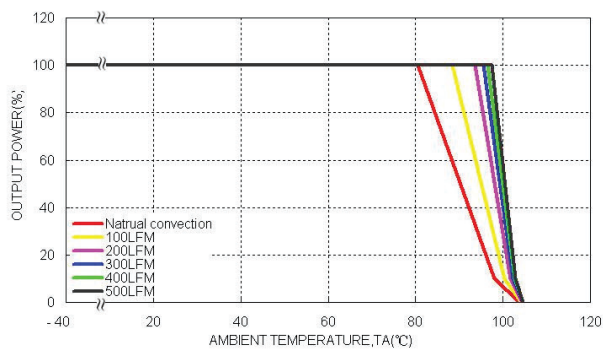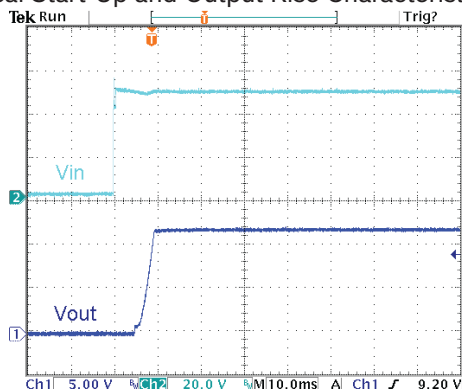
TEN 20-4812WIR

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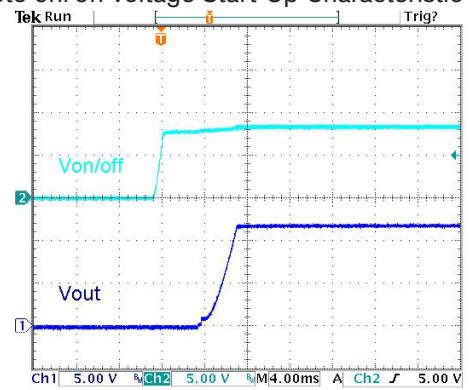(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)
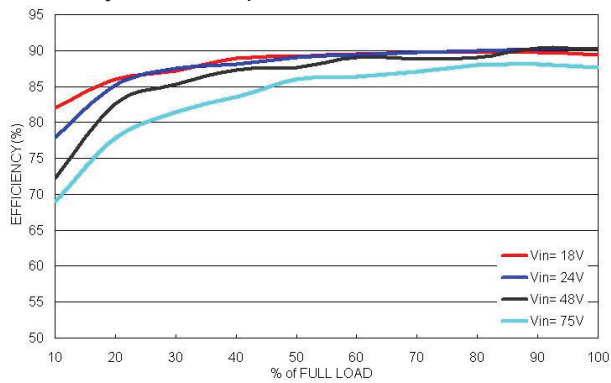

Typical Start-Up and Output Rise Characteristic

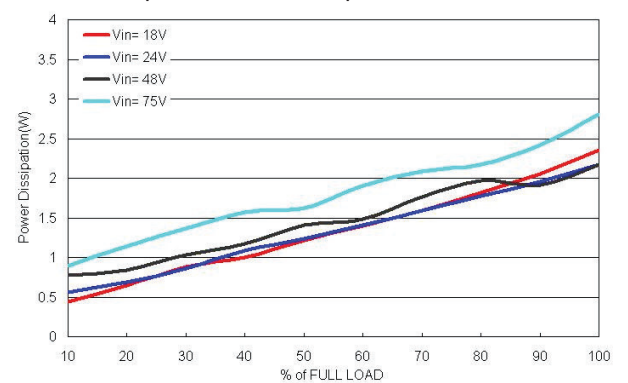Remote on/off Voltage Start-Up Characteristic

TRACO POWER

TEN 20-4813WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

TEN 20-4813WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic

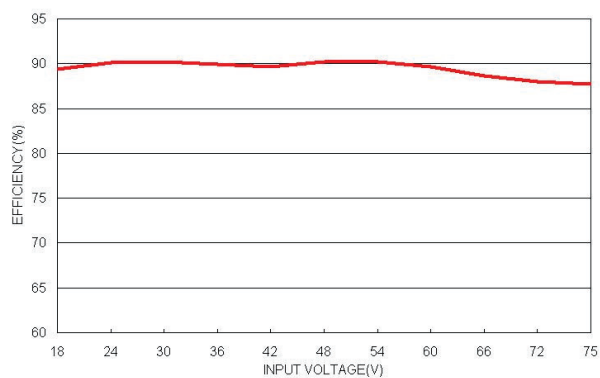Remote on/off Voltage Start-Up Characteristic

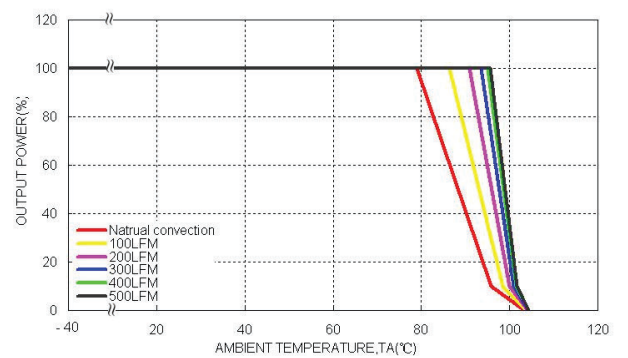### TEN 20-4822WIR

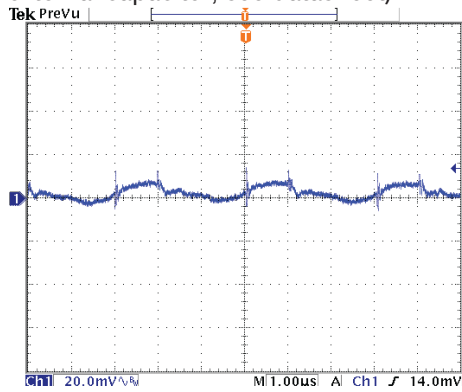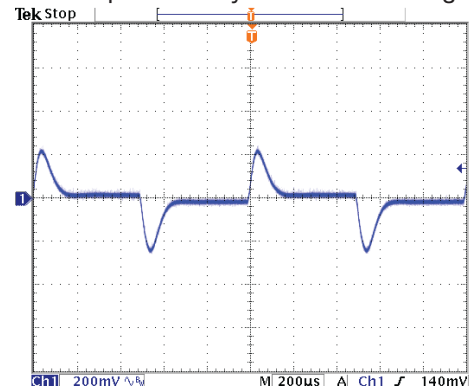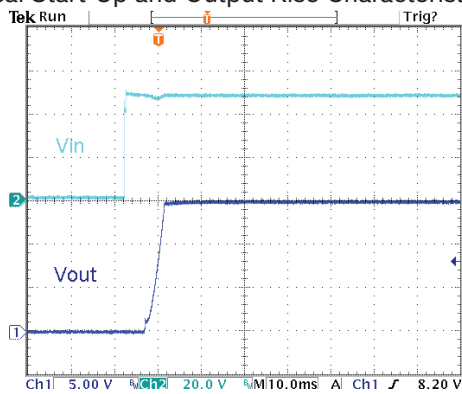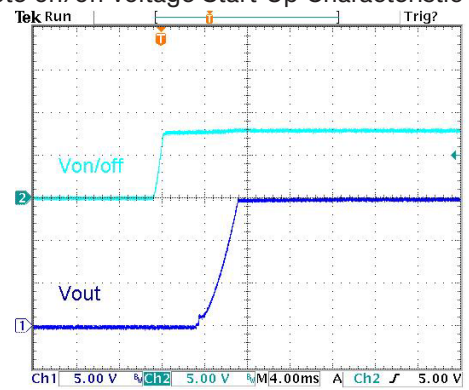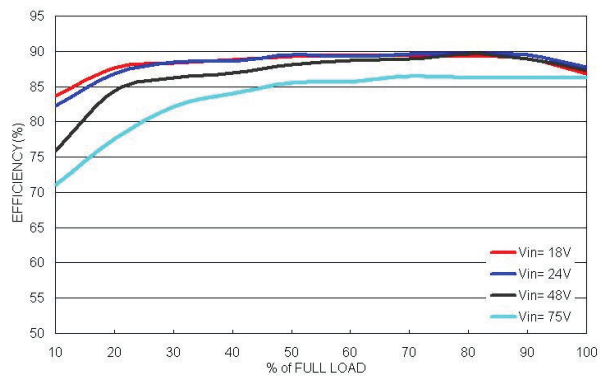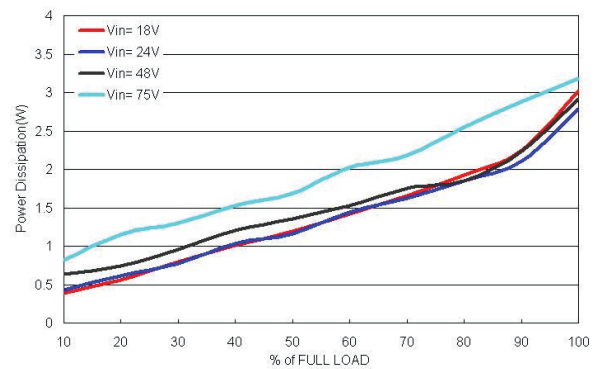Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature
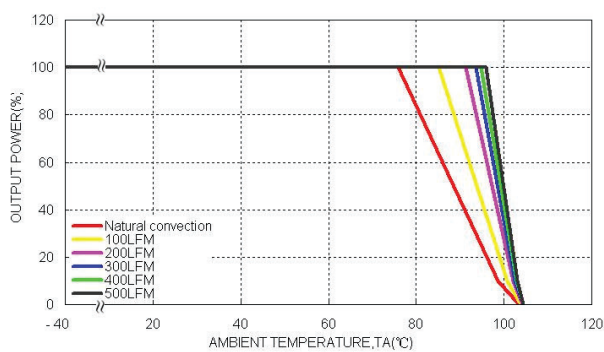
TEN 20-4822WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic

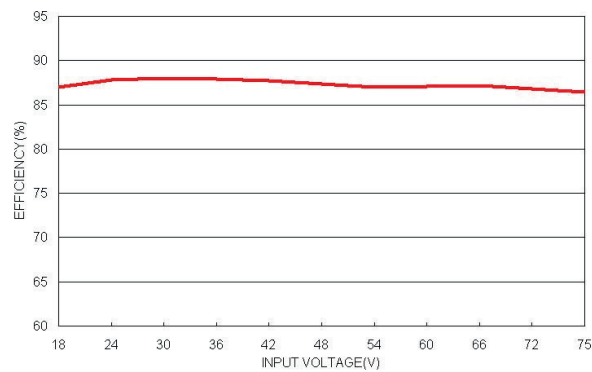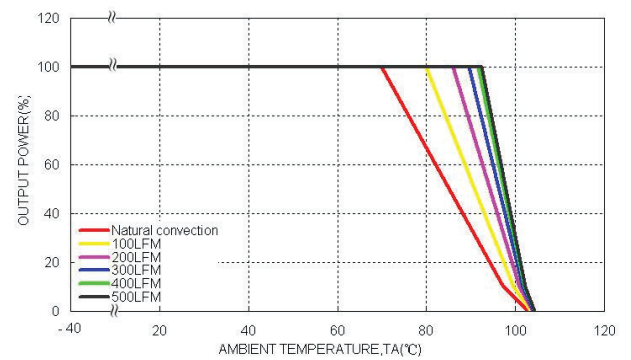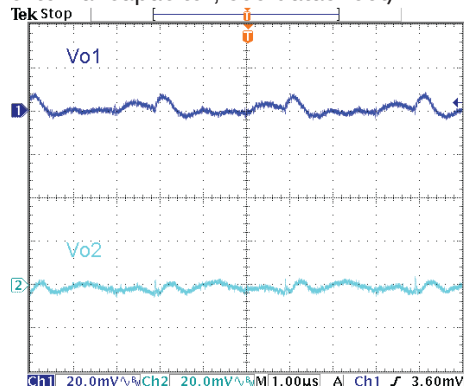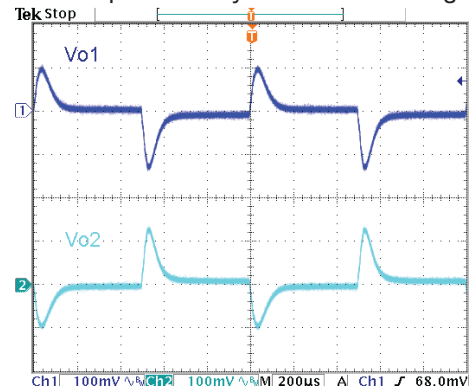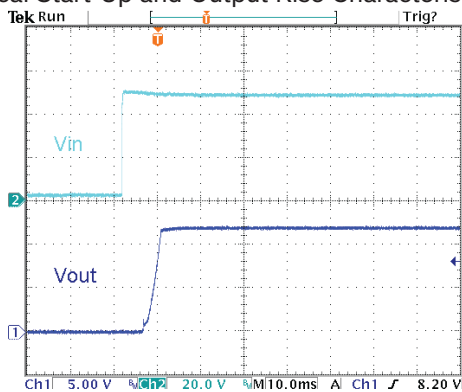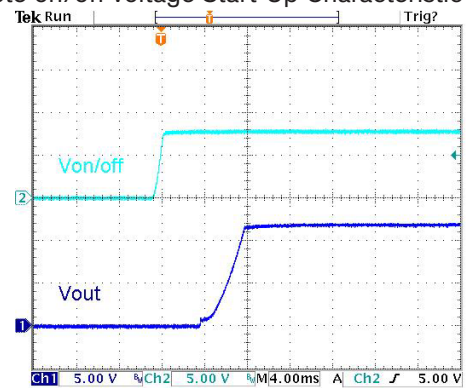Remote on/off Voltage Start-Up Characteristic

TEN 20-4823WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature
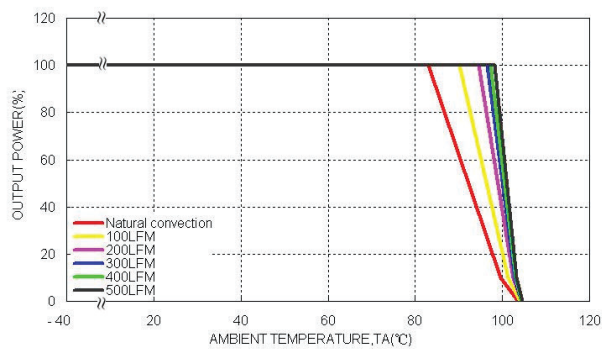
TEN 20-4823WIR

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

Transient Response to Dynamic Load Change (25%)

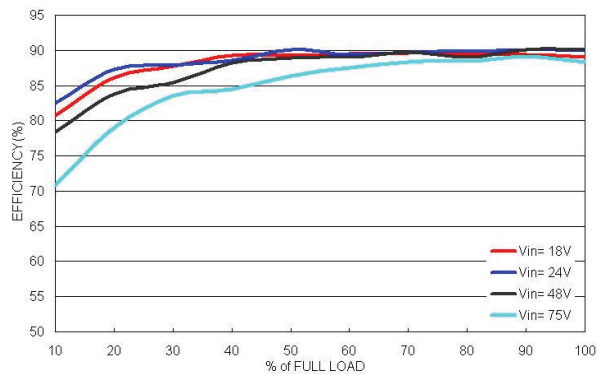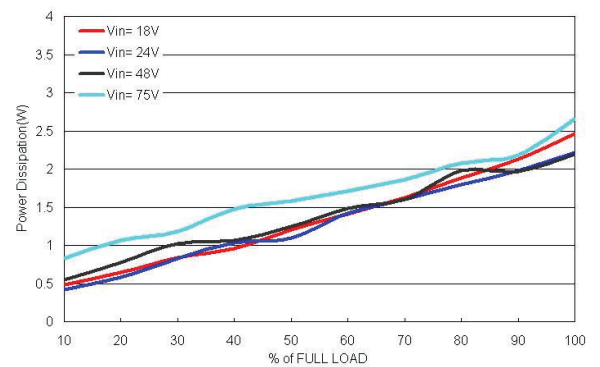Typical Start-Up and Output Rise Characteristic

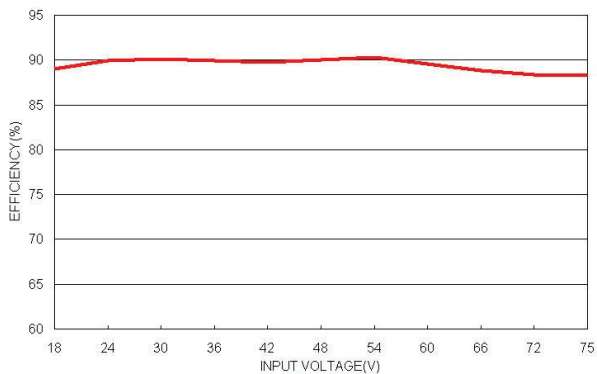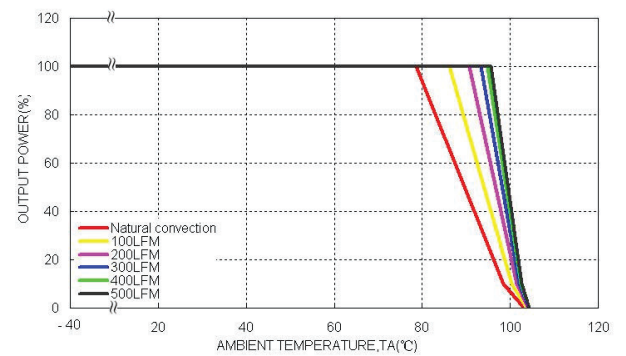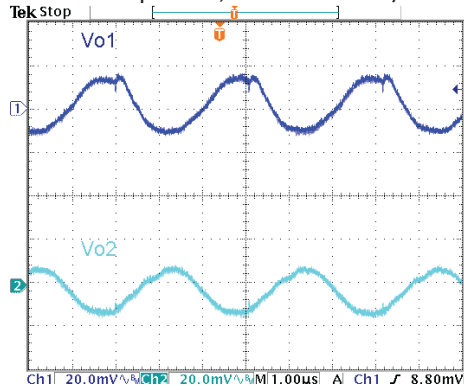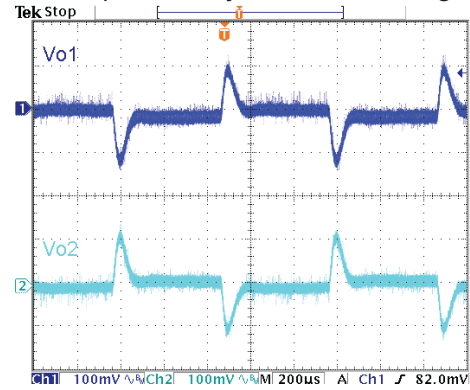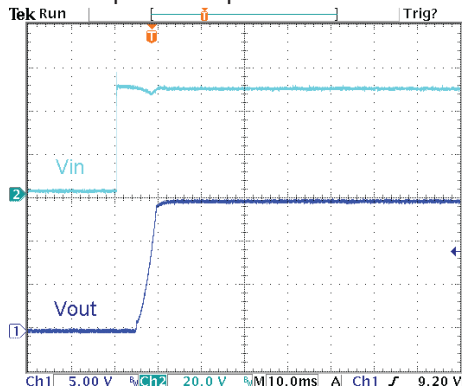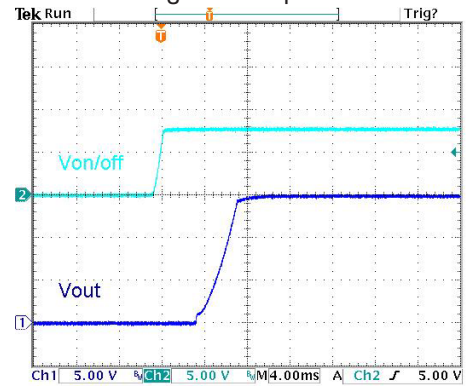Remote on/off Voltage Start-Up Characteristic

TEN 20-7210WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

TEN 20-7210WIR

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

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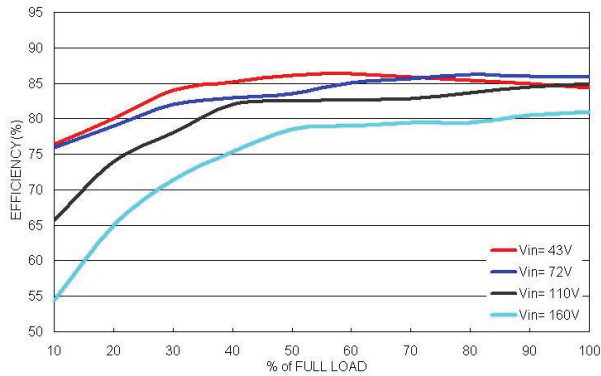
Typical Start-Up and Output Rise Characteristic

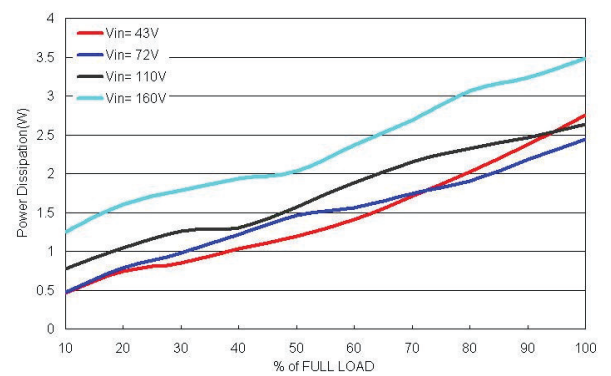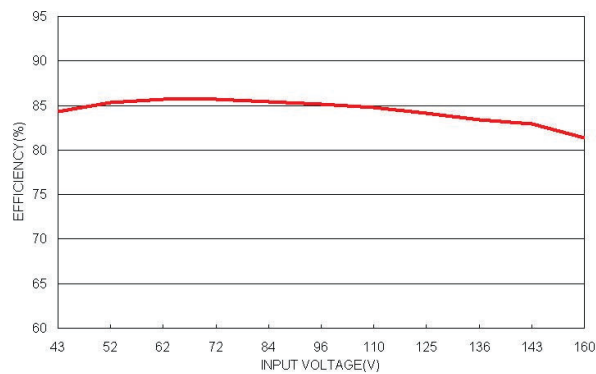Remote on/off Voltage Start-Up Characteristic
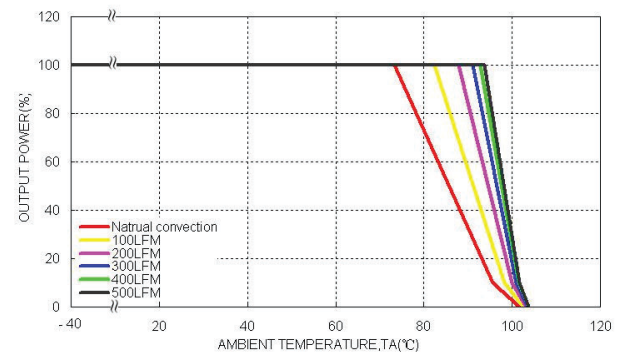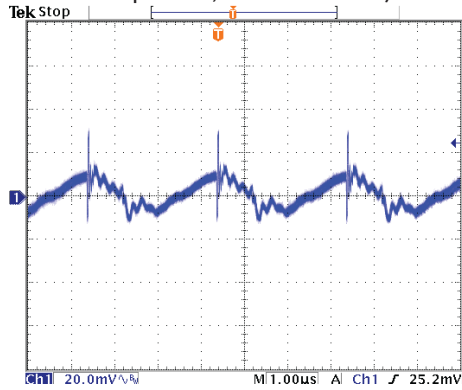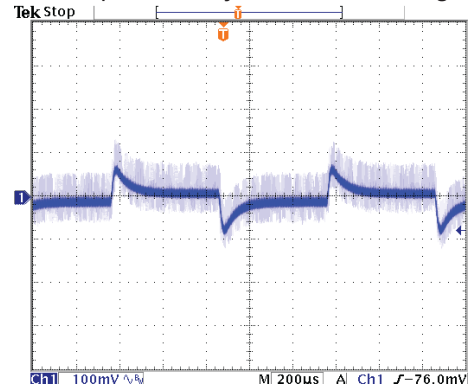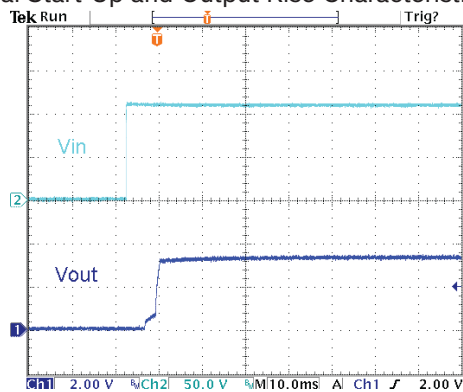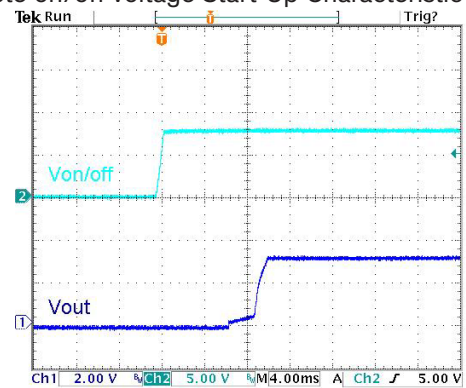
TEN 20-7211WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

II TRACO POWER

TEN 20-7211WIR

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

Transient Response to Dynamic Load Change (25%)

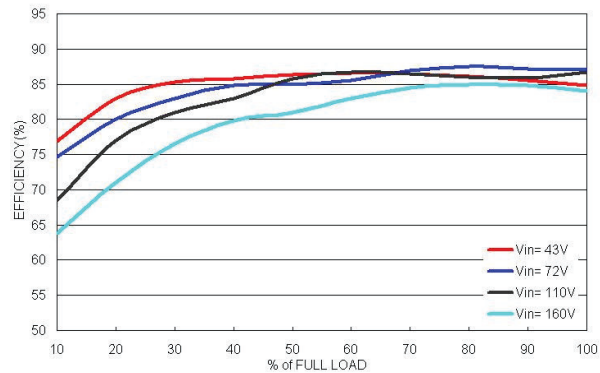Typical Start-Up and Output Rise Characteristic

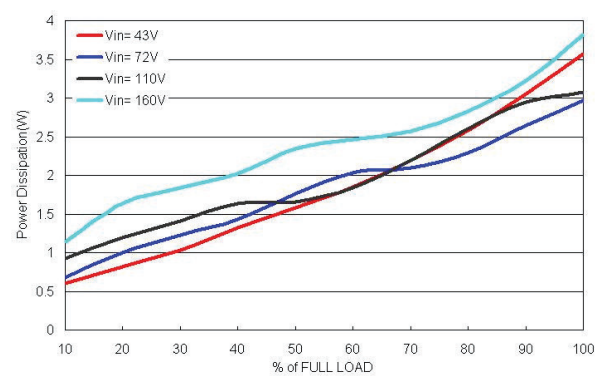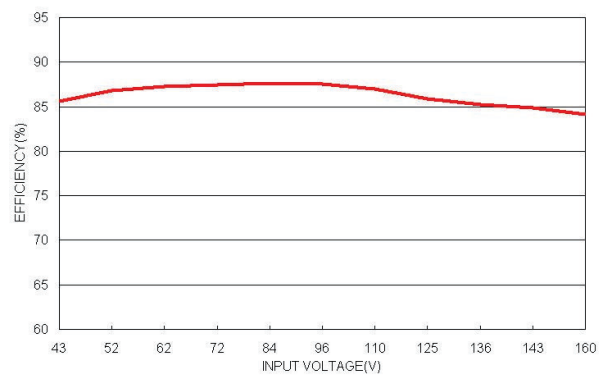Remote on/off Voltage Start-Up Characteristic

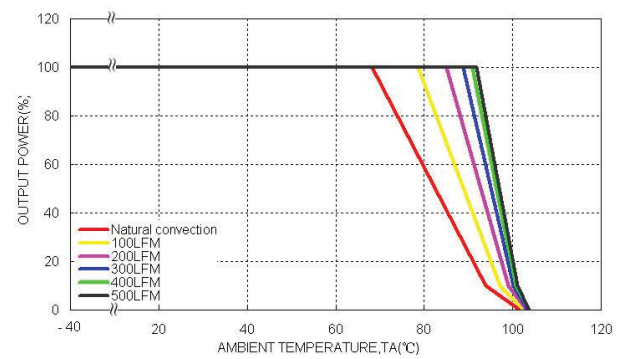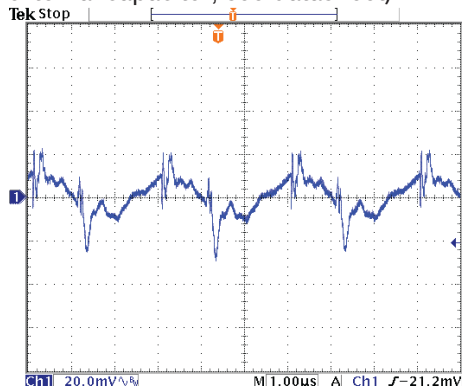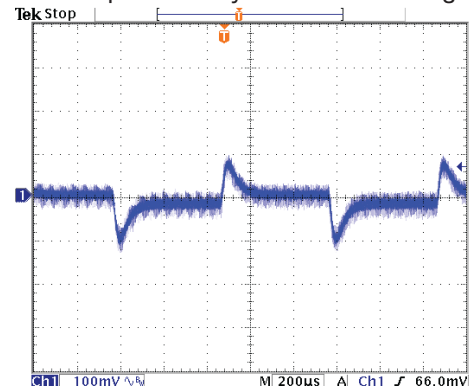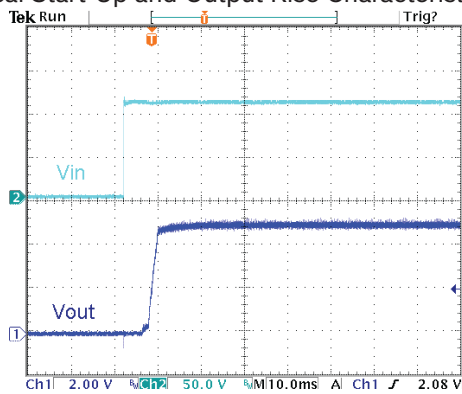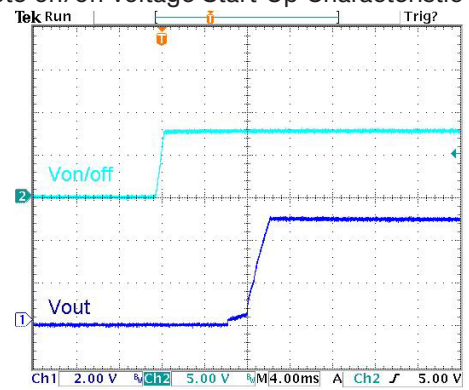## TEN 20-7212WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

TEN 20-7212WIR

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

Transient Response to Dynamic Load Change (25%)
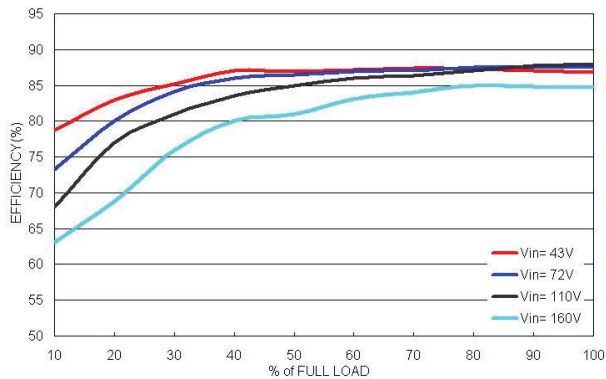

Typical Start-Up and Output Rise Characteristic

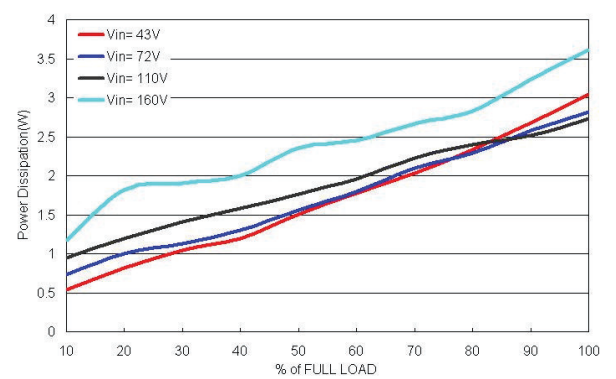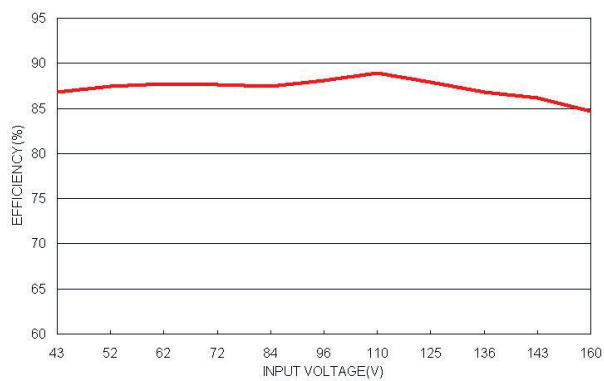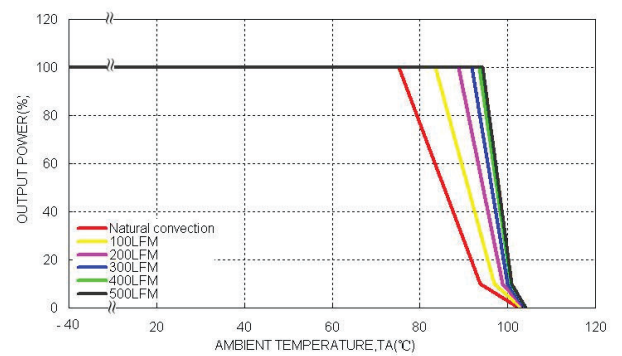Remote on/off Voltage Start-Up Characteristic

![TRACO POWER logo]

TEN 20-7213WIR

Efficiency versus Output Load

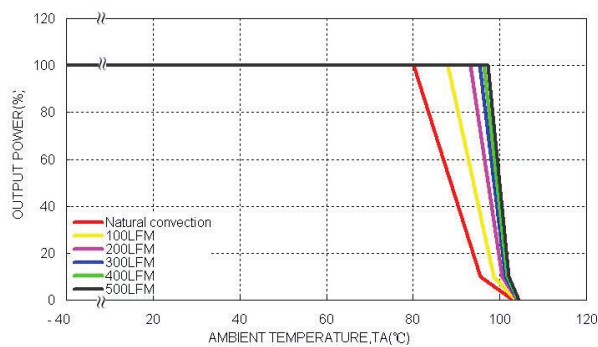### Power Dissipation versus Output Load

Efficiency versus Input Voltage

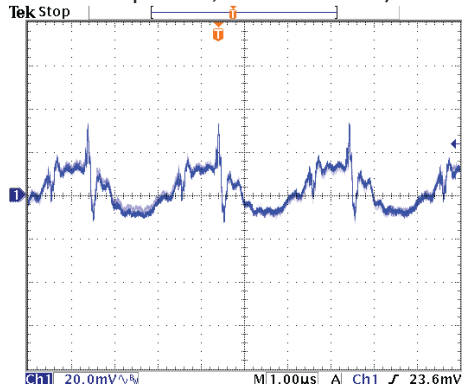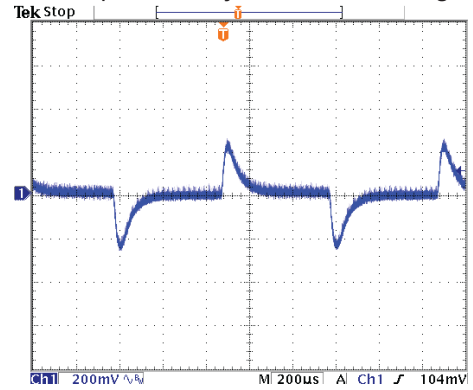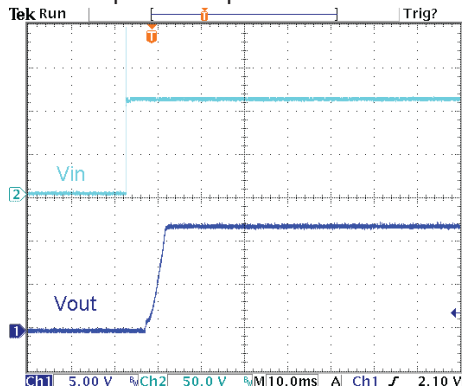### Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

TEN 20-7213WIR

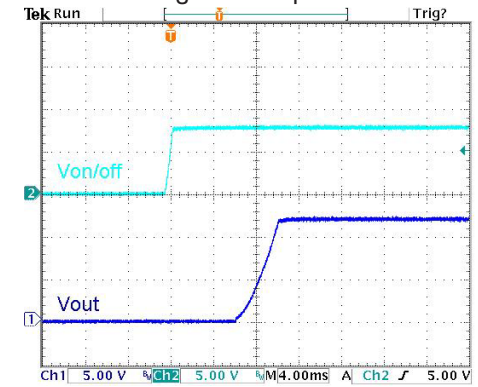Typical Output Ripple and Noise
(with external capacitor; see datasheet)

Transient Response to Dynamic Load Change (25%)

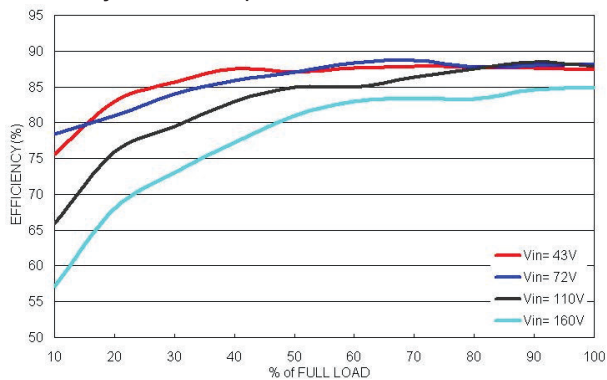Typical Start-Up and Output Rise Characteristic

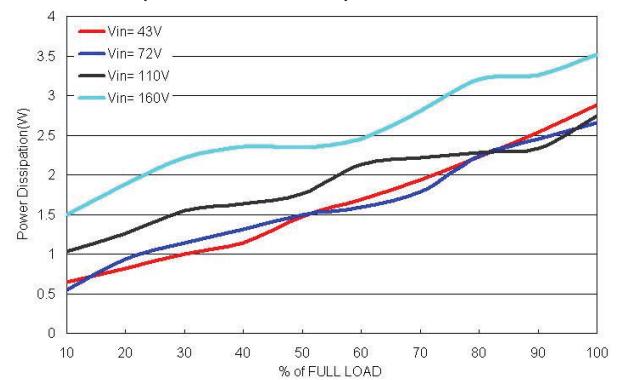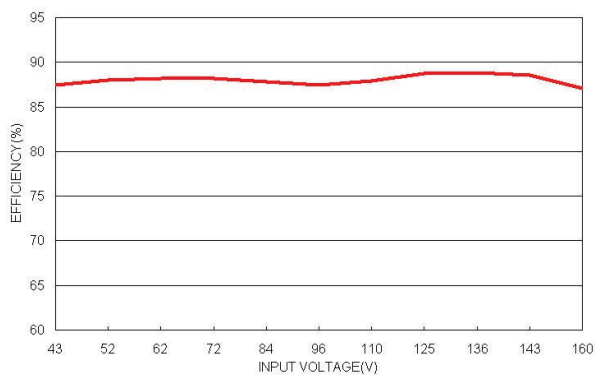Remote on/off Voltage Start-Up Characteristic
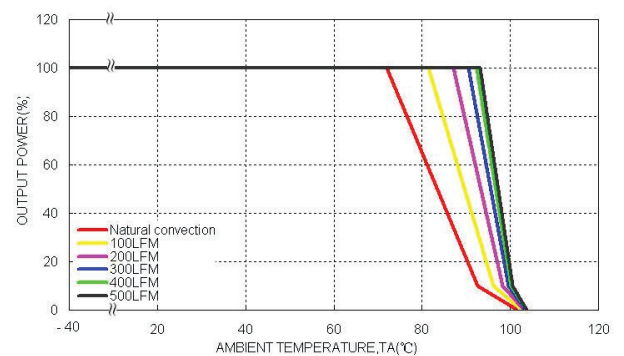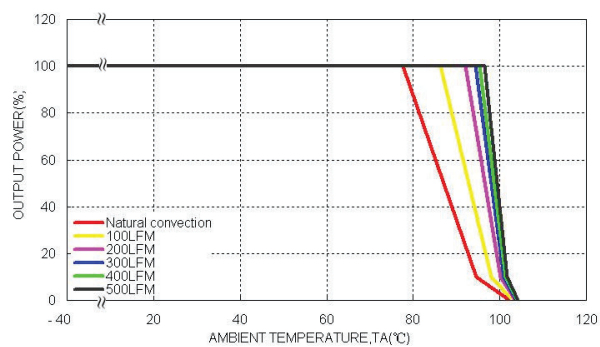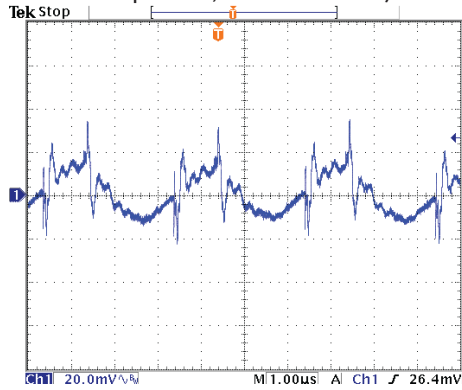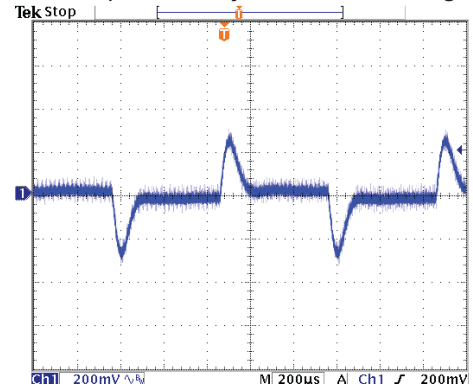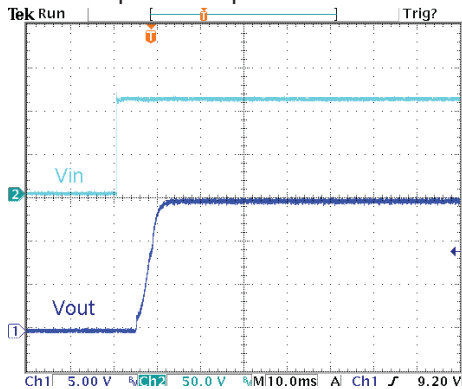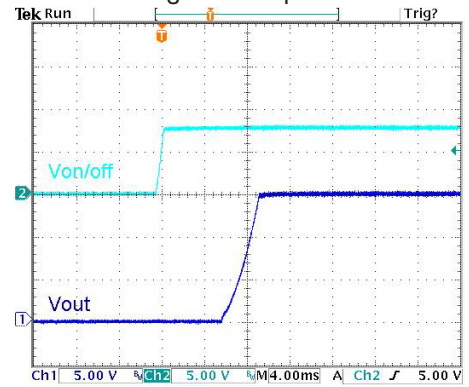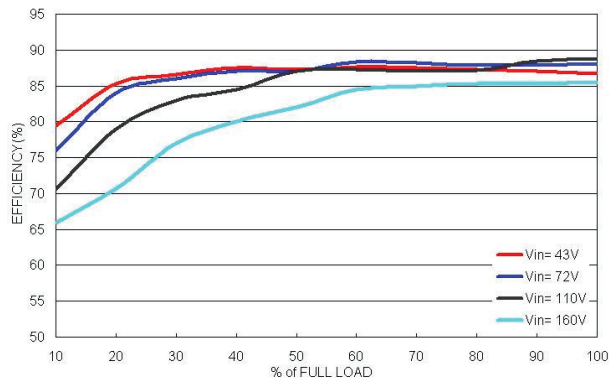
TEN 20-7222WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature (with Heatsink TEN-HS1)

TEN 20-7222WIR

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

Transient Response to Dynamic Load Change (25%)

Typical Start-Up and Output Rise Characteristic
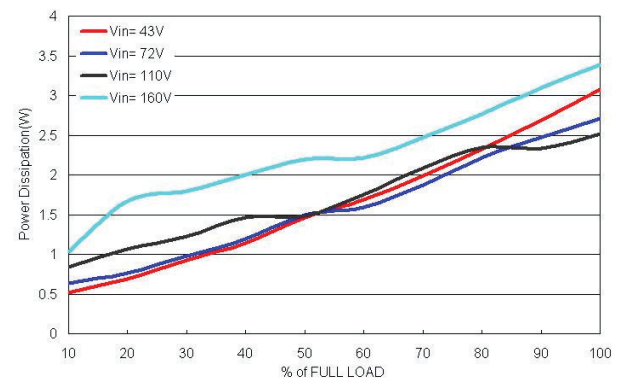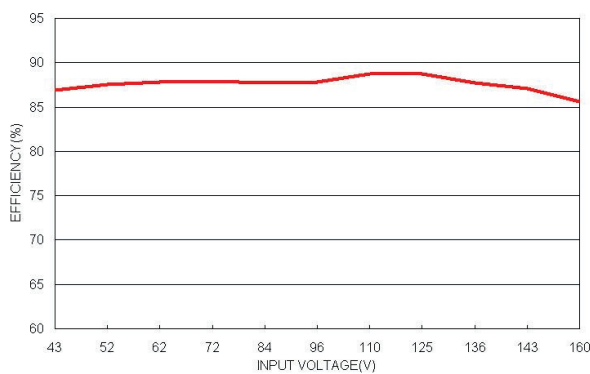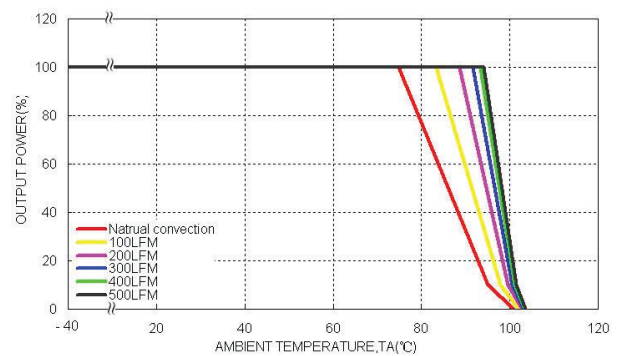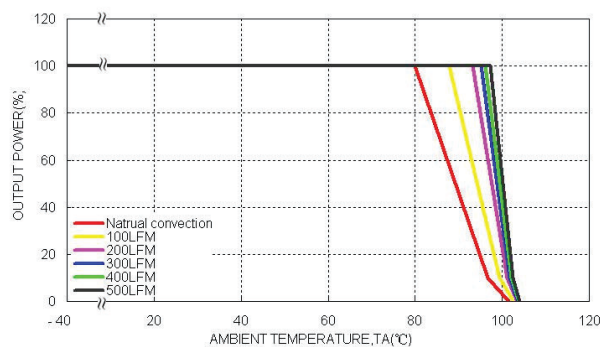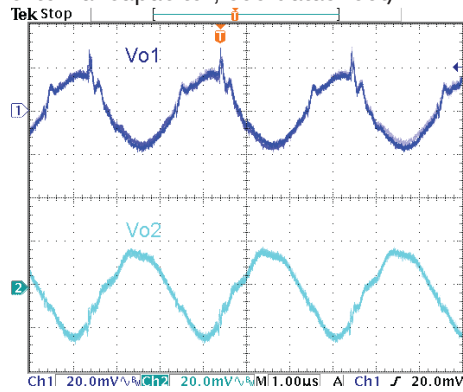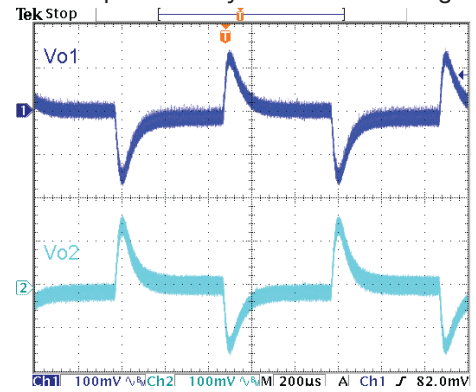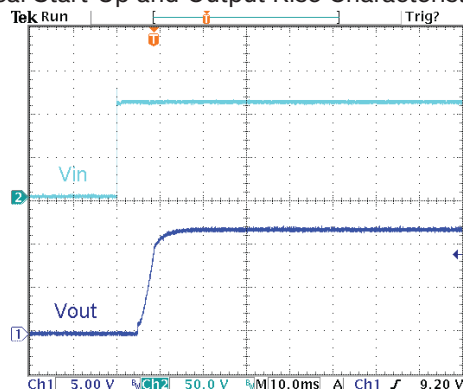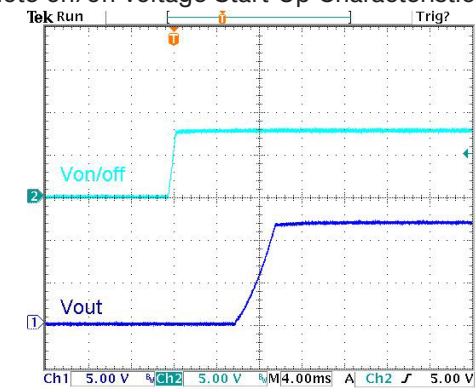

Remote on/off Voltage Start-Up Characteristic

TRACO POWER

TEN 20-7223WIR

Efficiency versus Output Load

Efficiency versus Input Voltage

Power Dissipation versus Output Load

Derating Output Load versus Ambient Temperature

Derating Output Load versus Ambient Temperature
(with Heatsink TEN-HS1)

TRACO POWER

TEN 20-7223WIR

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

Transient Response to Dynamic Load Change (25%)

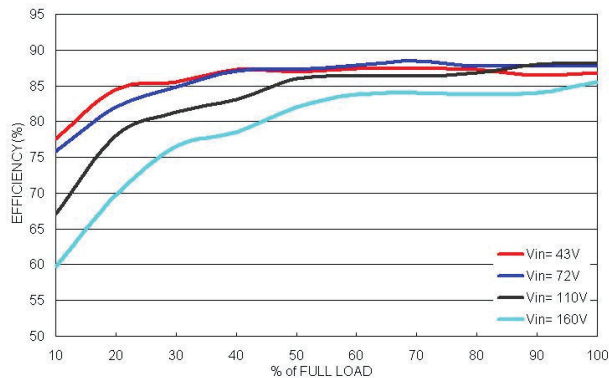Typical Start-Up and Output Rise Characteristic
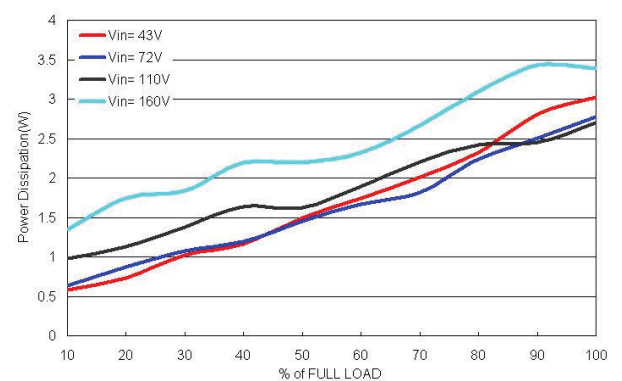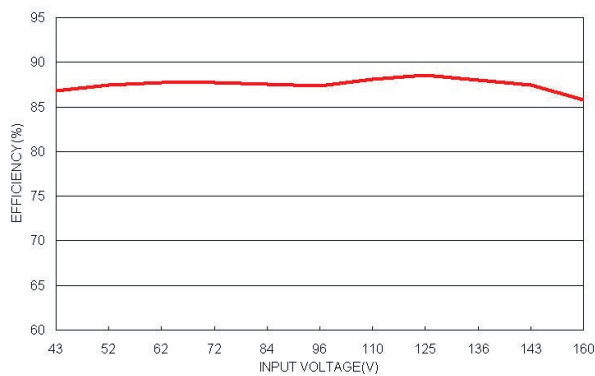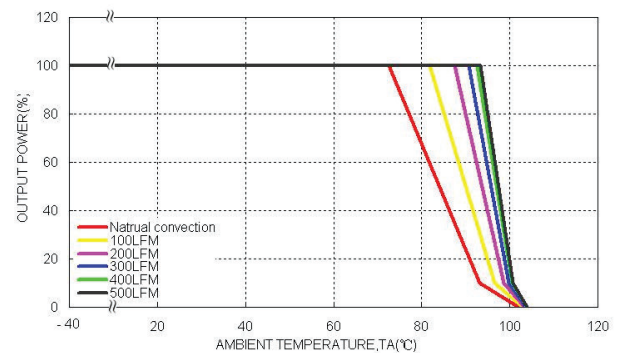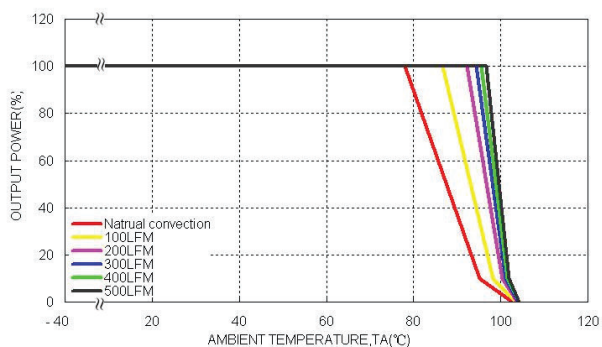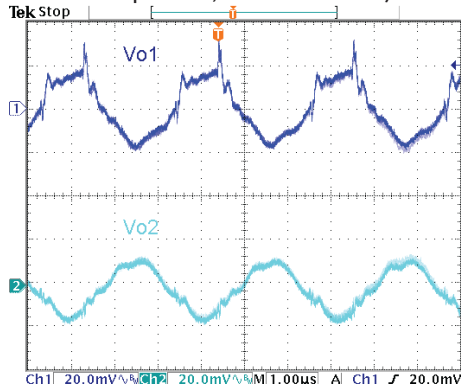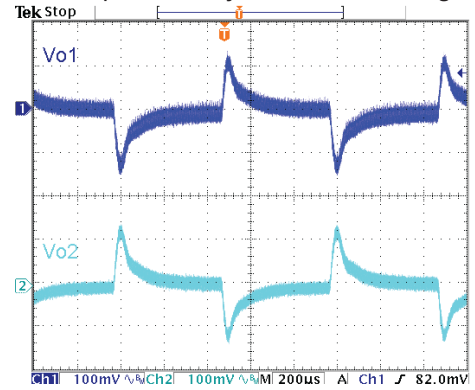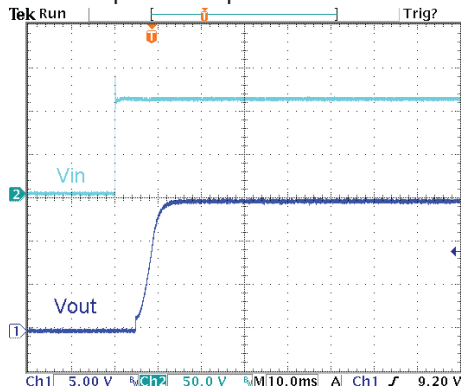

Remote on/off Voltage Start-Up Characteristic