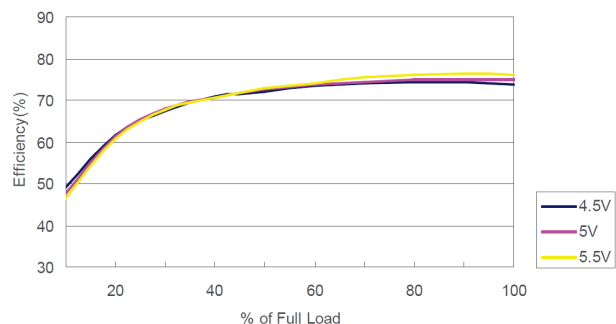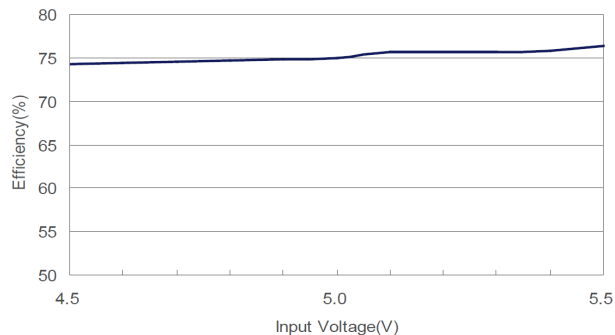## Characteristic Curves

TMA 0505S

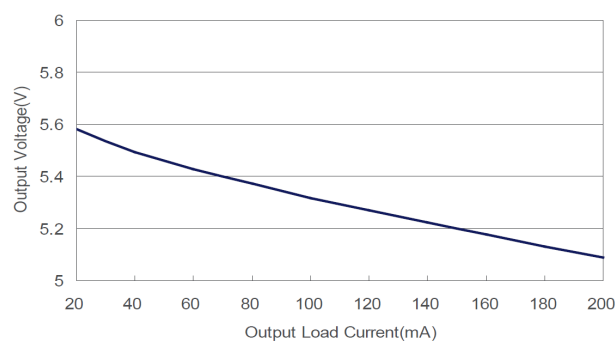Efficiency versus Output Load

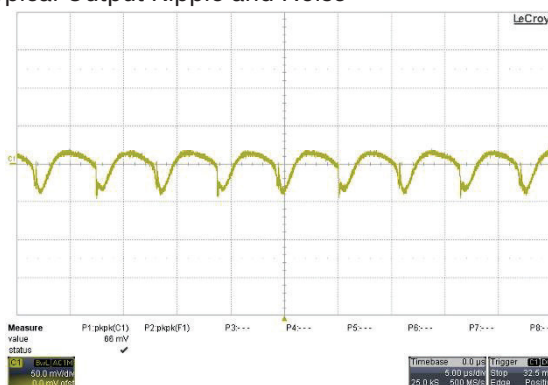Efficiency versus Input Voltage

Output Voltage versus Output Current

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature

Load Variation versus Output Voltage

Input Variation versus Output Voltage

TRACO POWER

TMA 0512S

Efficiency versus Output Load
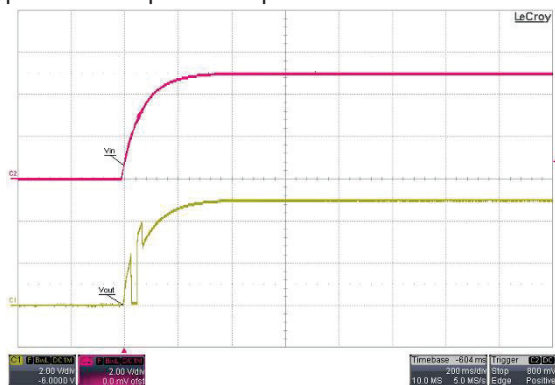

Efficiency versus Input Voltage

Output Voltage versus Output Current
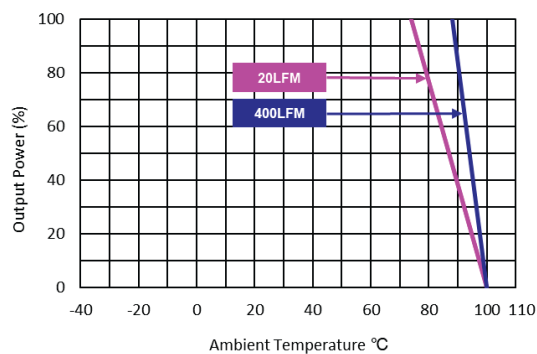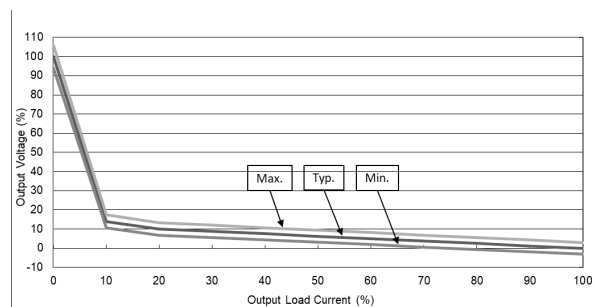

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
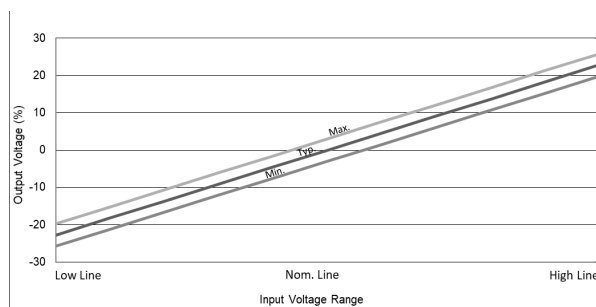

Derating Output Load versus Ambient Temperature
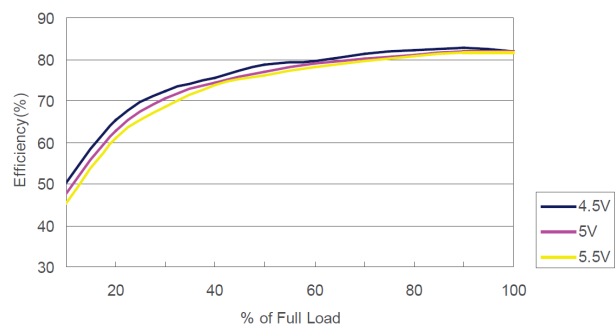

Load Variation versus Output Voltage
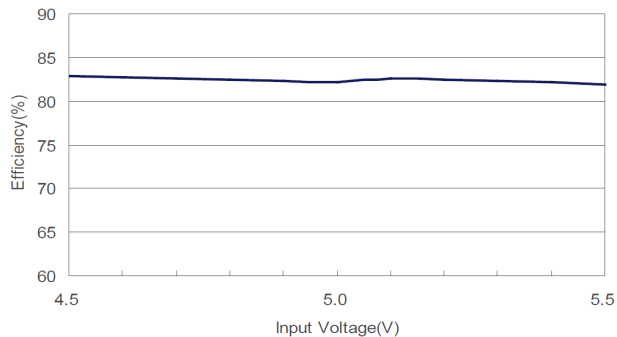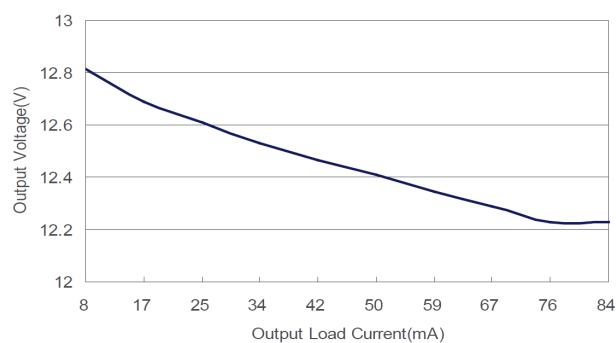

Input Variation versus Output Voltage

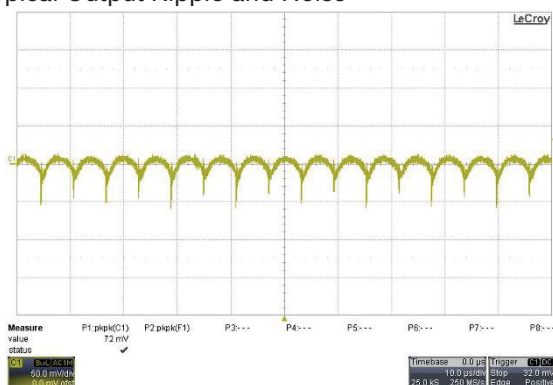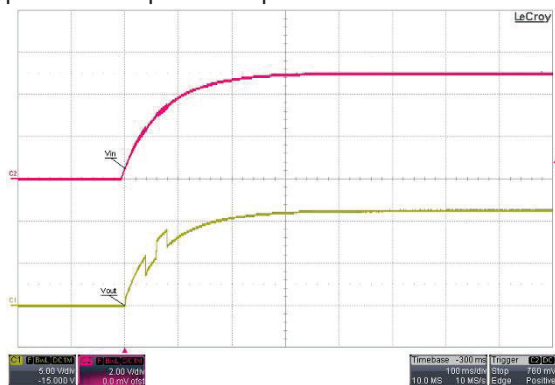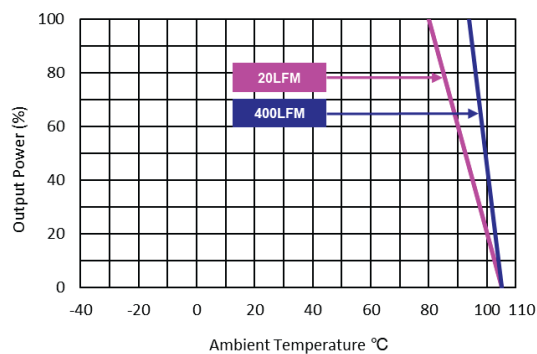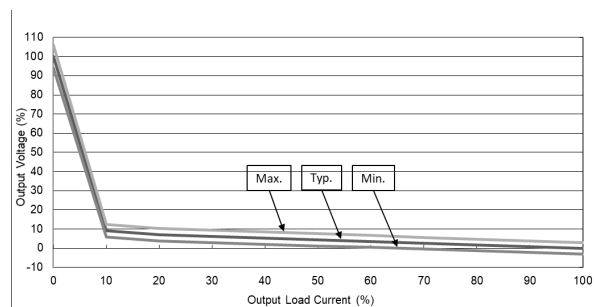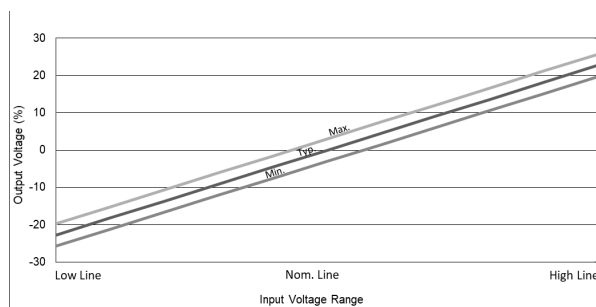## TMA 0515S

Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature
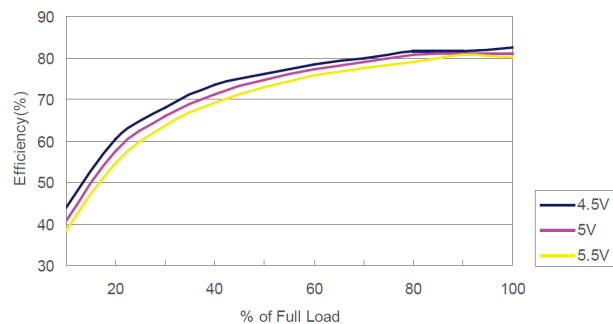

Load Variation versus Output Voltage
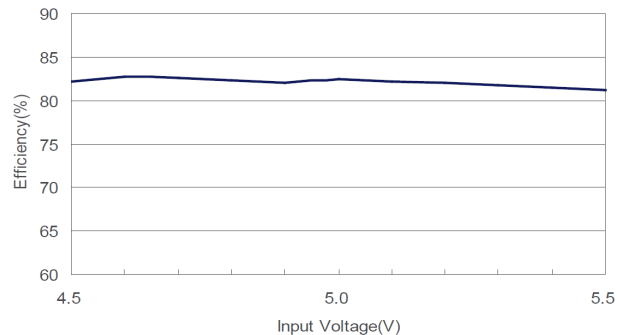

Input Variation versus Output Voltage

TMA 0505D
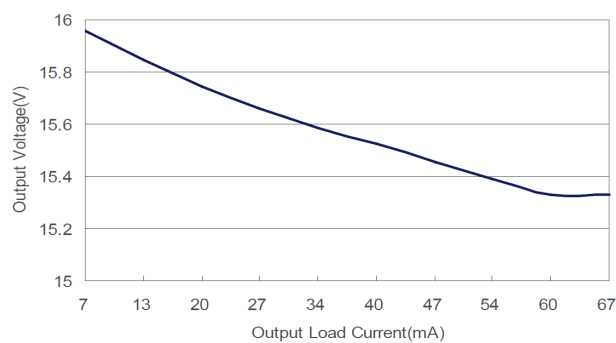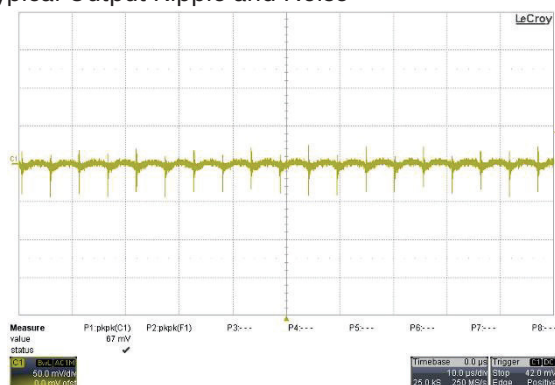
Efficiency versus Output Load
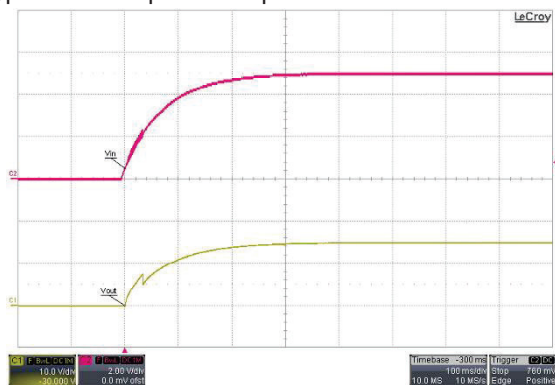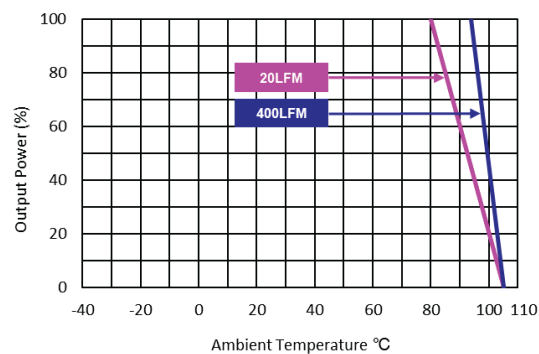

Efficiency versus Input Voltage

Output Voltage versus Output Current
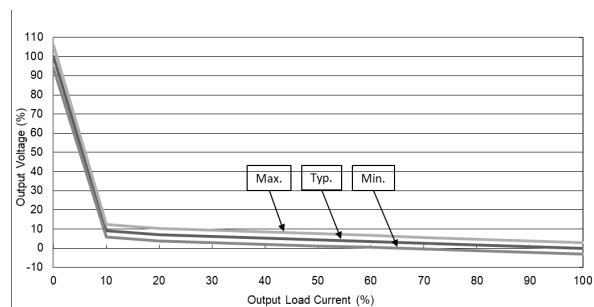

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
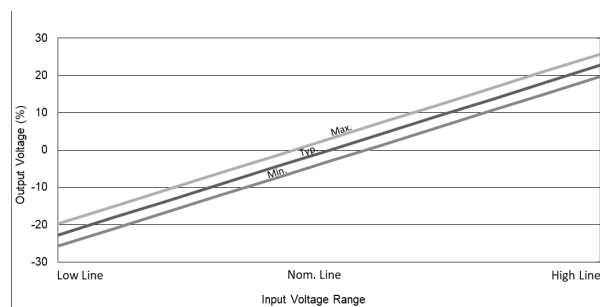

Derating Output Load versus Ambient Temperature
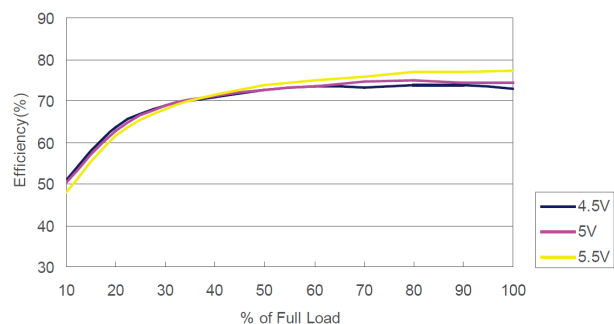

Load Variation versus Output Voltage
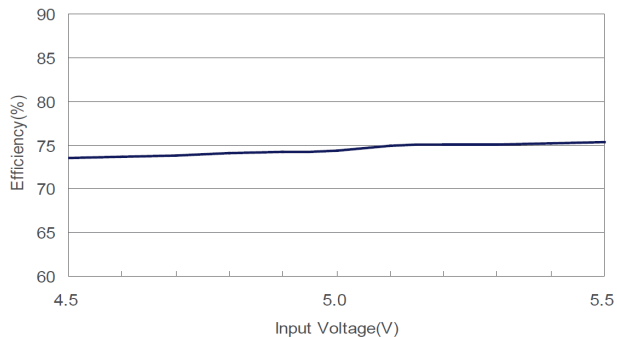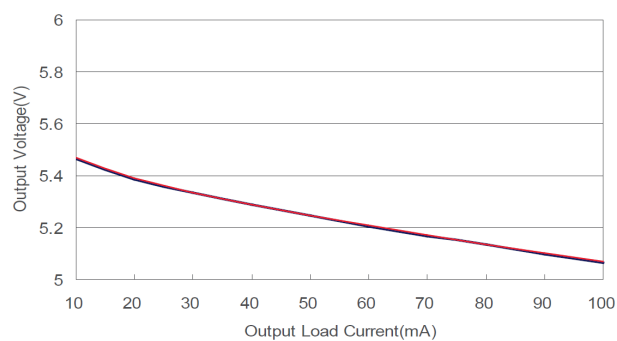

Input Variation versus Output Voltage

TMA 0512D
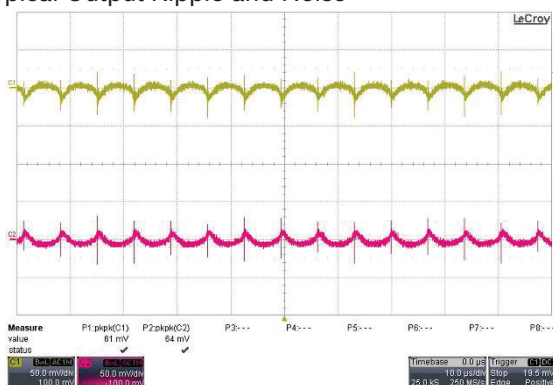
Efficiency versus Output Load
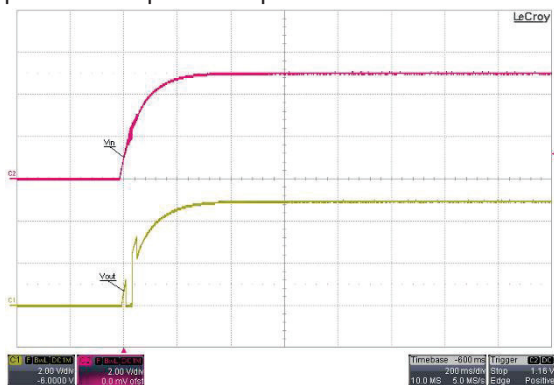

Efficiency versus Input Voltage

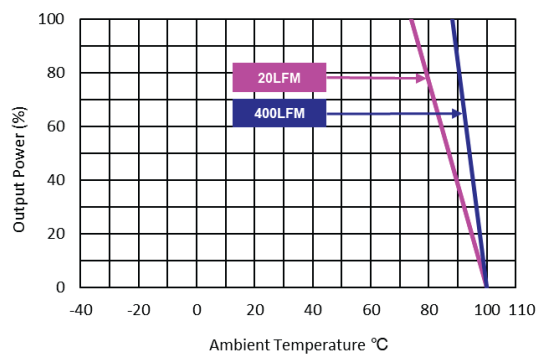### Output Voltage versus Output Current
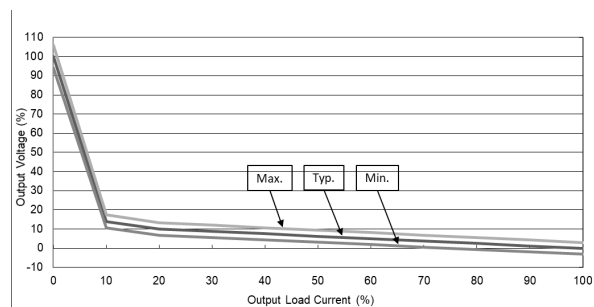

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
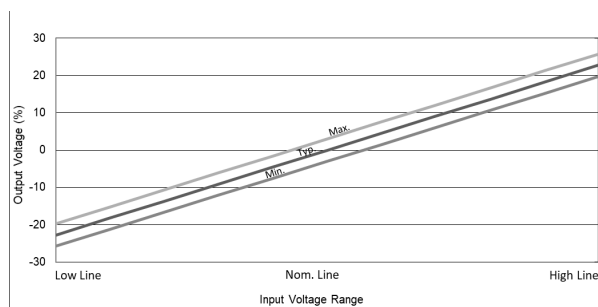

Derating Output Load versus Ambient Temperature
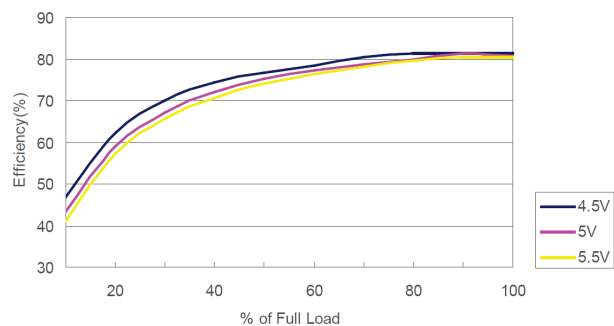

Load Variation versus Output Voltage
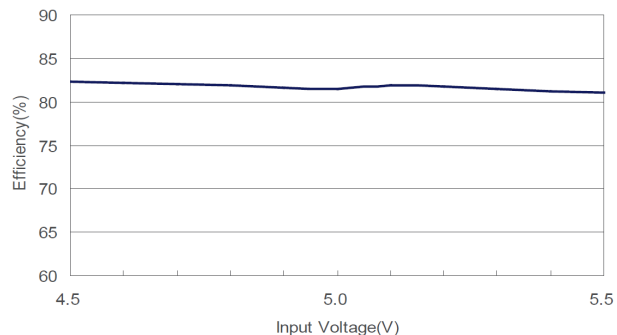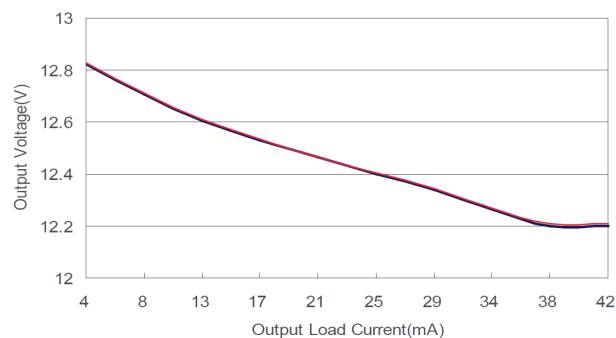

Input Variation versus Output Voltage

TMA 0515D
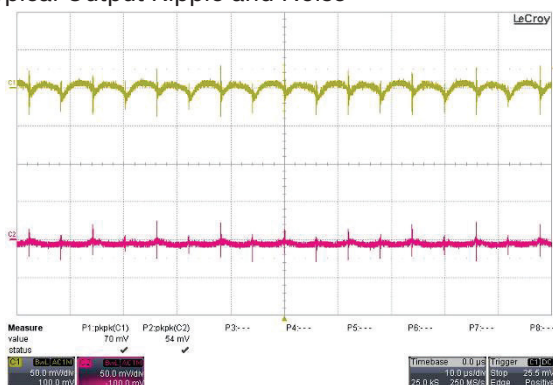
Efficiency versus Output Load
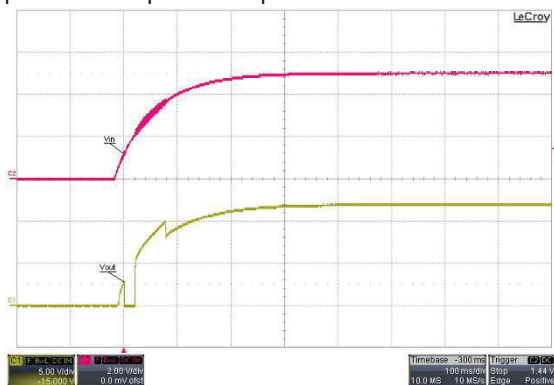

Efficiency versus Input Voltage

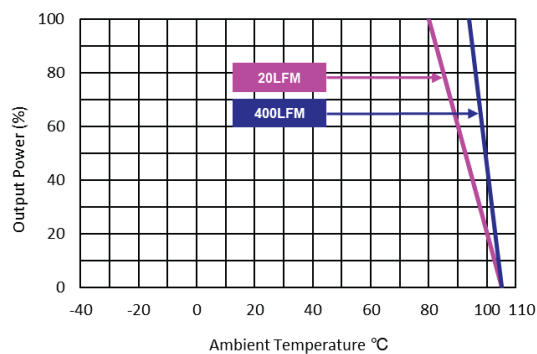### Output Voltage versus Output Current
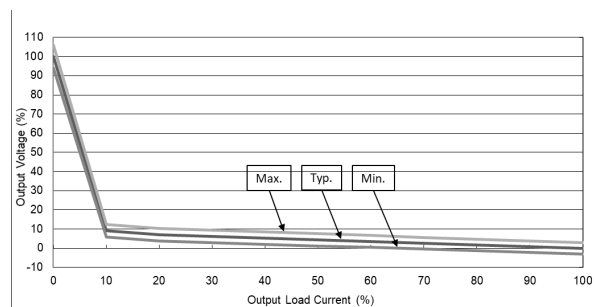

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
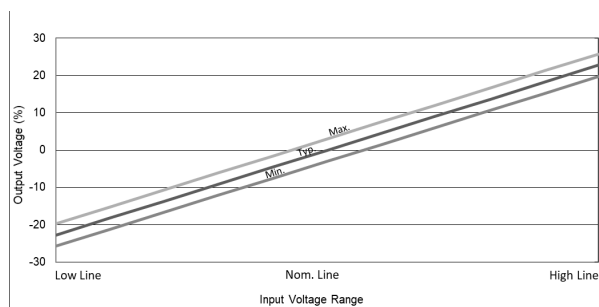

Derating Output Load versus Ambient Temperature
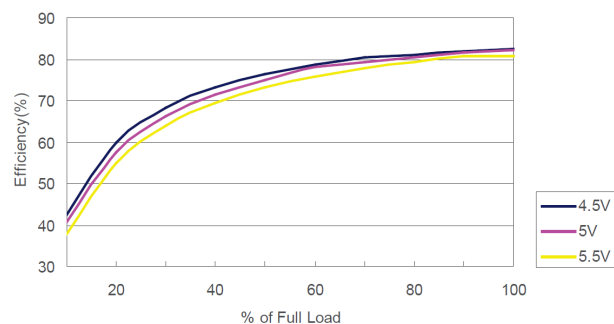

Load Variation versus Output Voltage

Input Variation versus Output Voltage

TMA 1205S
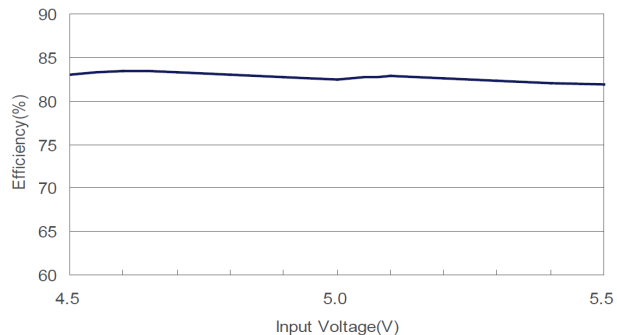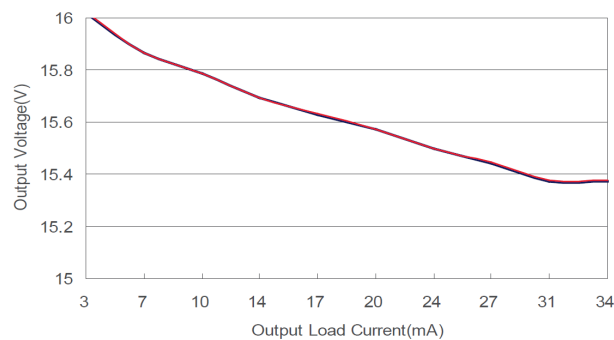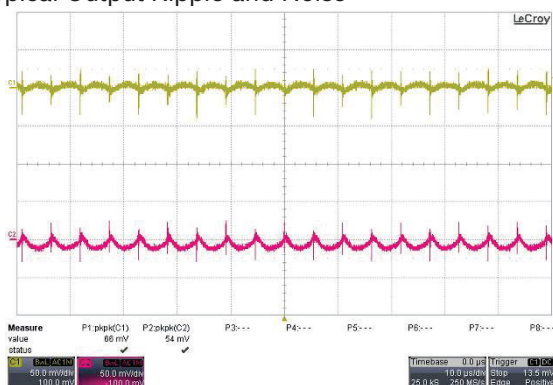
Efficiency versus Output Load

Efficiency versus Input Voltage

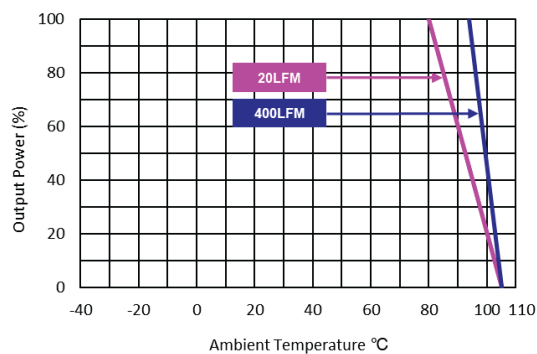## Output Voltage versus Output Current

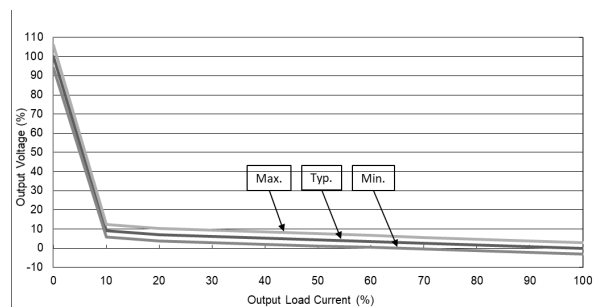## Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
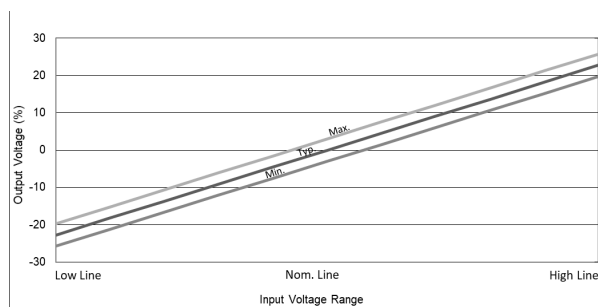

Derating Output Load versus Ambient Temperature
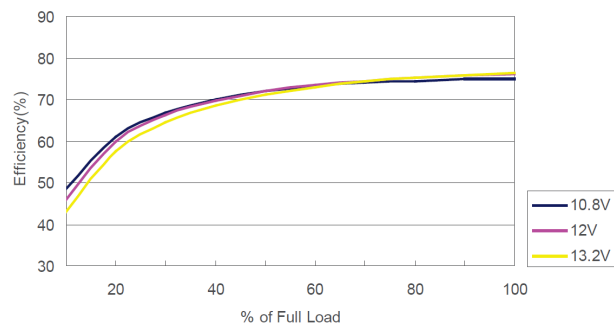

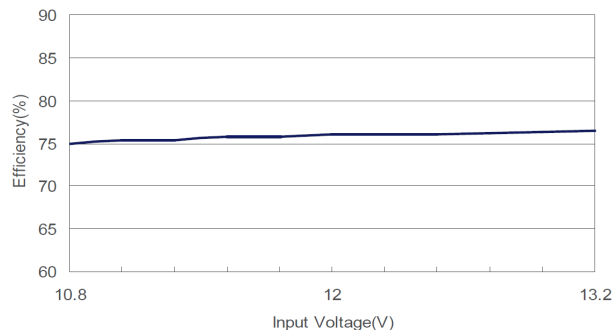## Load Variation versus Output Voltage
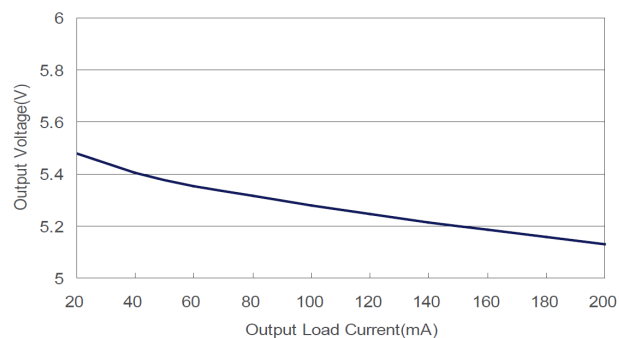

Input Variation versus Output Voltage

TMA 1212S

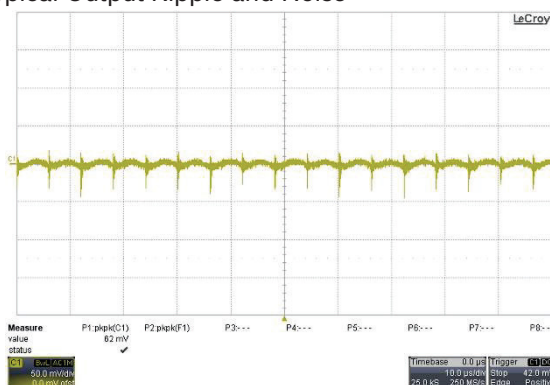### Efficiency versus Output Load

Efficiency versus Input Voltage

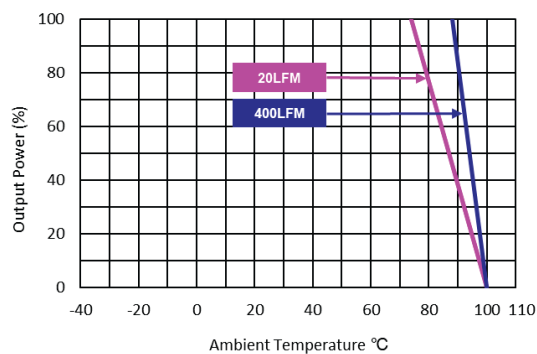### Output Voltage versus Output Current

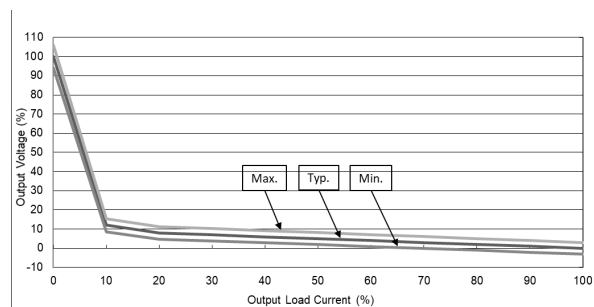### Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
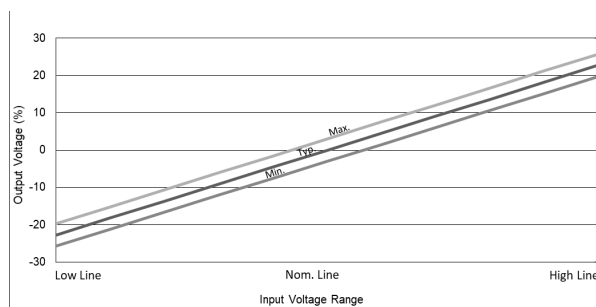

Derating Output Load versus Ambient Temperature
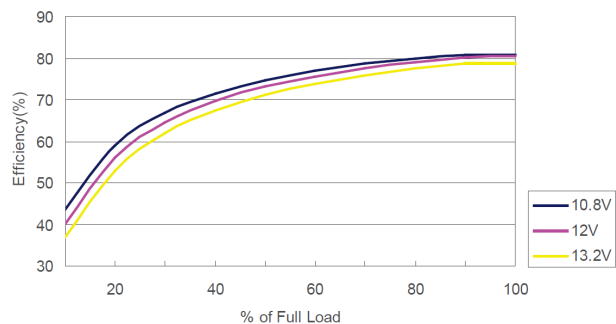

Load Variation versus Output Voltage
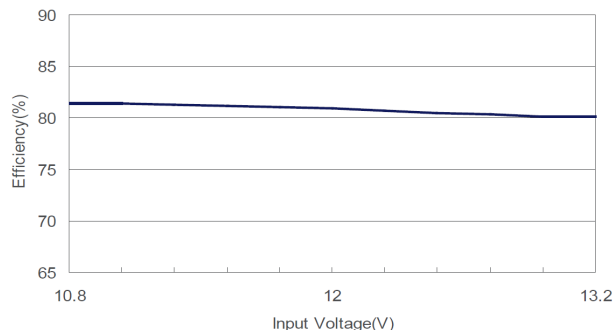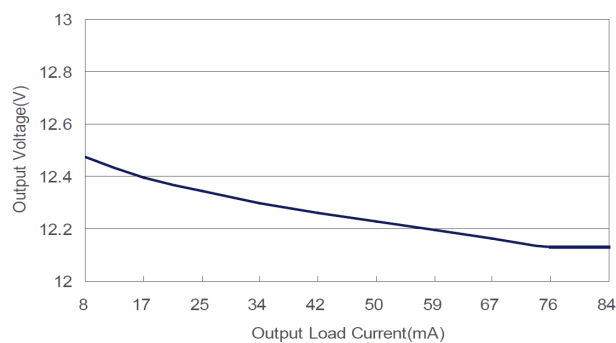

Input Variation versus Output Voltage

TMA 1215S
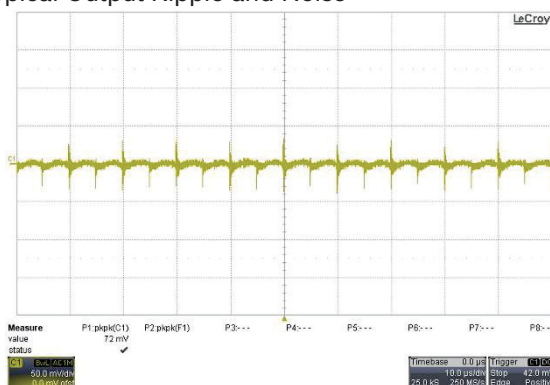
Efficiency versus Output Load

Efficiency versus Input Voltage

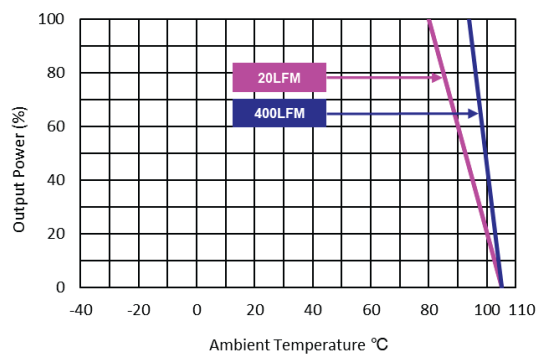### Output Voltage versus Output Current
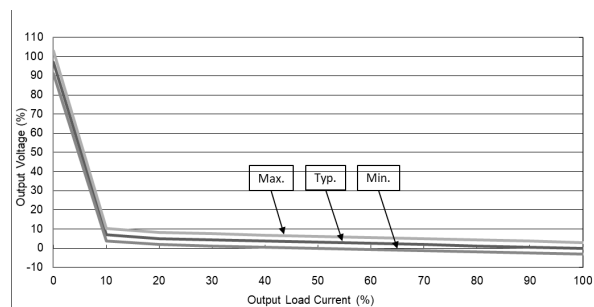

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
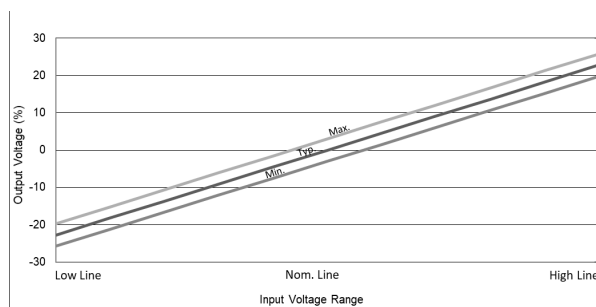

Derating Output Load versus Ambient Temperature
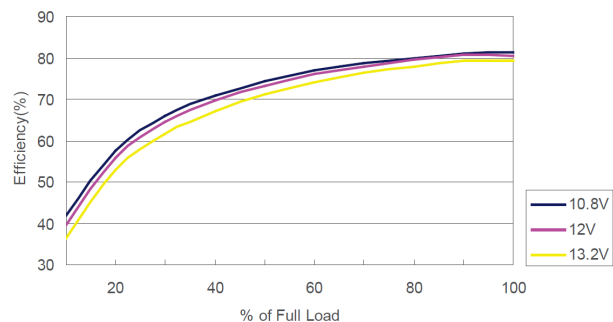

Load Variation versus Output Voltage
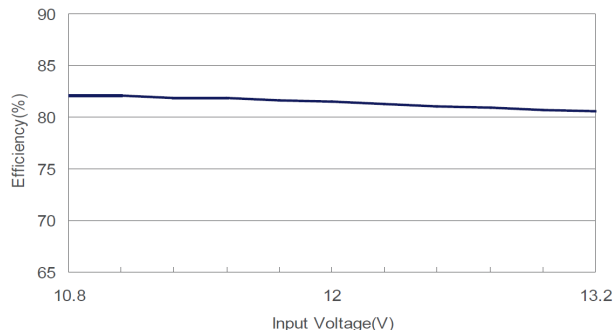

Input Variation versus Output Voltage
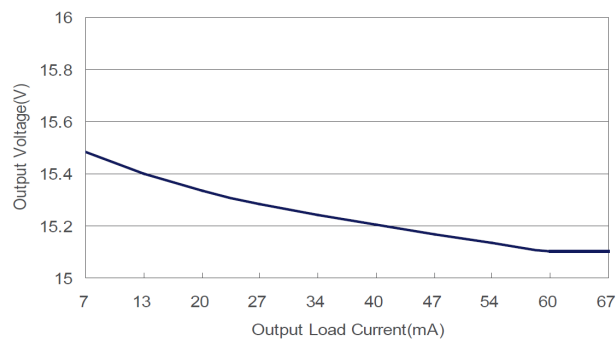
TRACO POWER

TMA 1205D

Efficiency versus Output Load

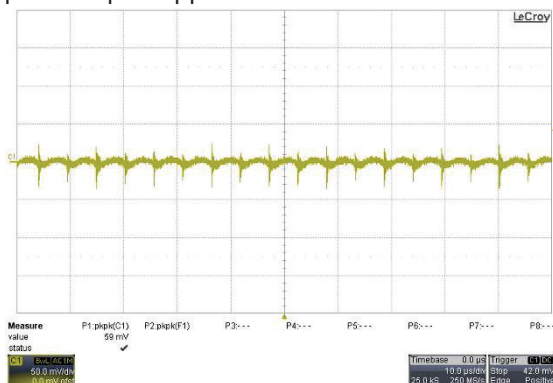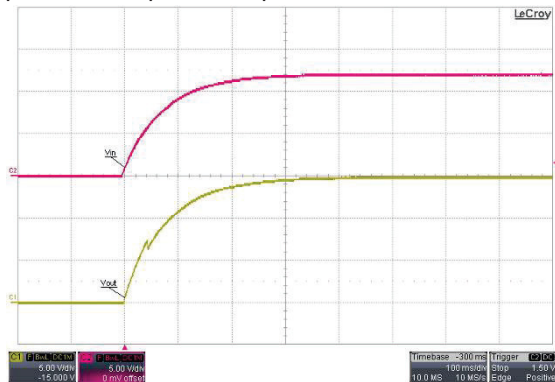### Efficiency versus Input Voltage

Output Voltage versus Output Current
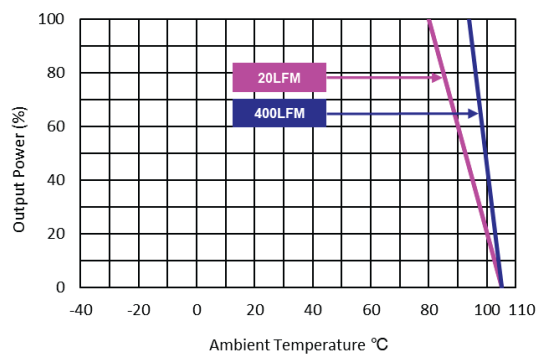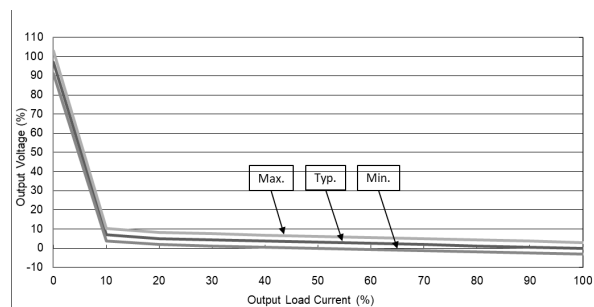

Typical Output Ripple and Noise

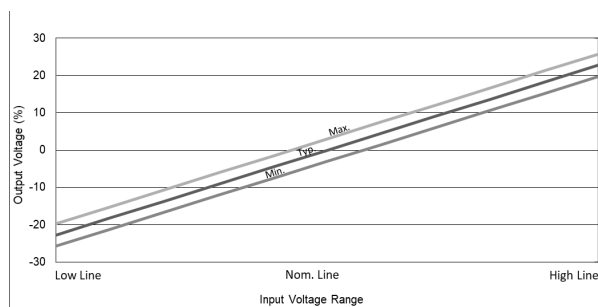### Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature
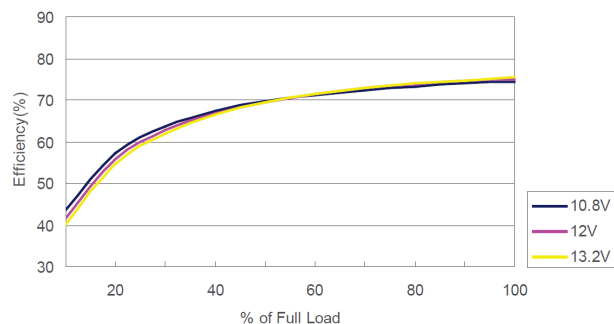

Load Variation versus Output Voltage
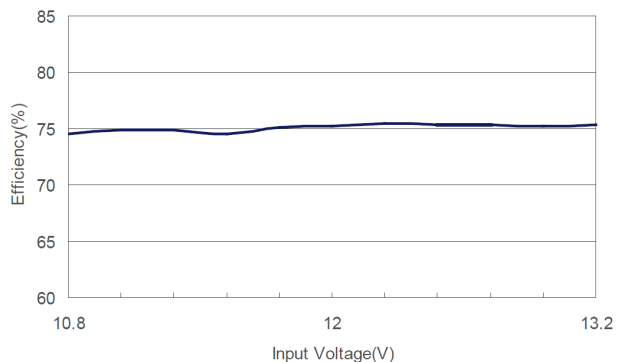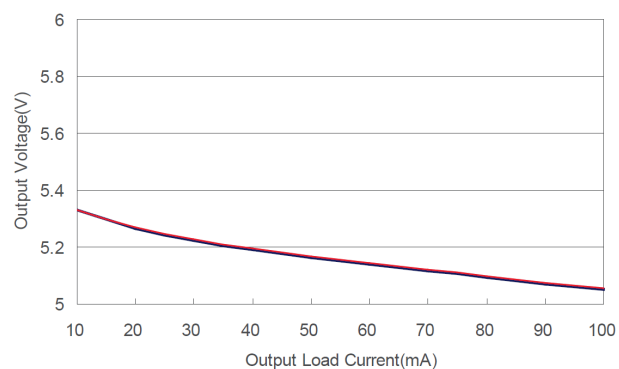

Input Variation versus Output Voltage

TMA 1212D

Efficiency versus Output Load

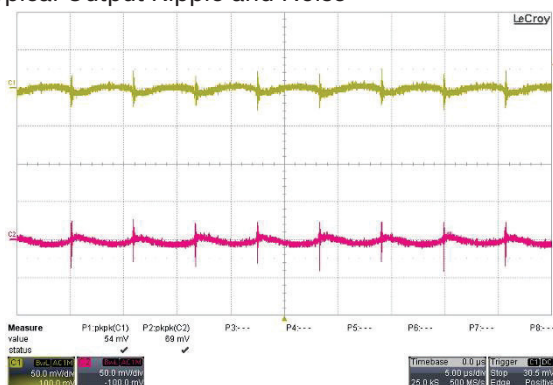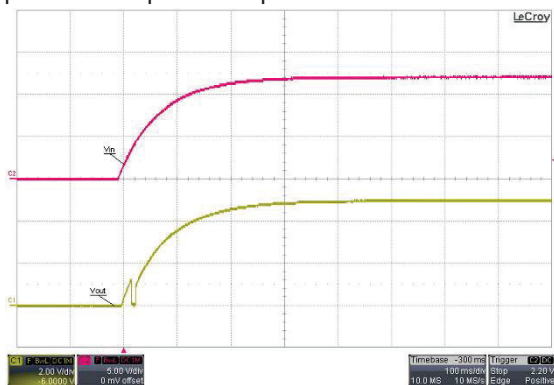### Efficiency versus Input Voltage

Output Voltage versus Output Current
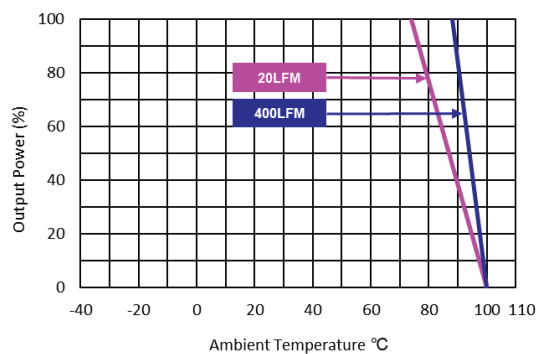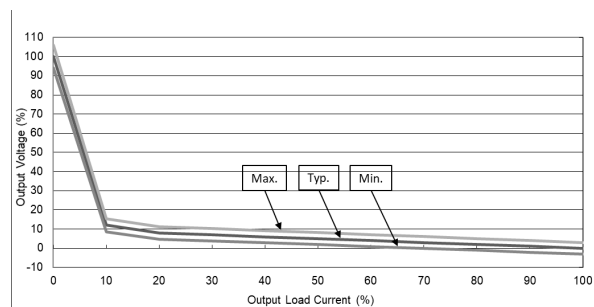

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
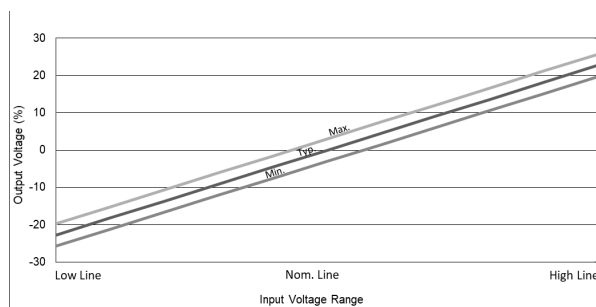

Derating Output Load versus Ambient Temperature
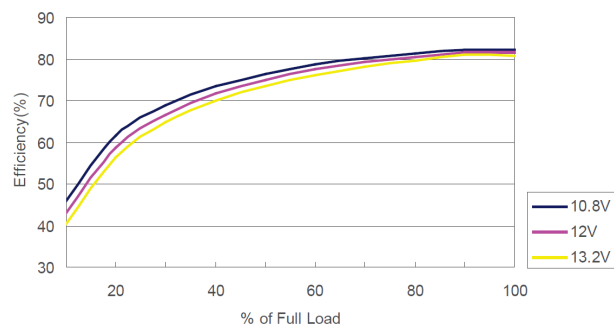

Load Variation versus Output Voltage
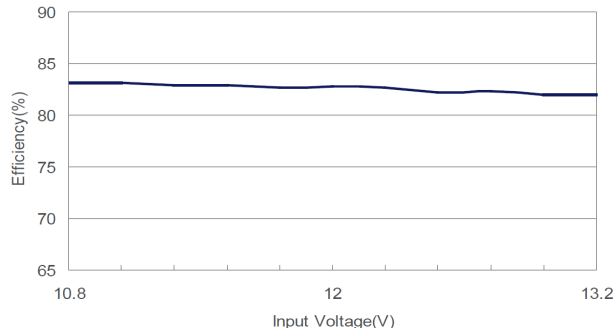

Input Variation versus Output Voltage

TRACO POWER
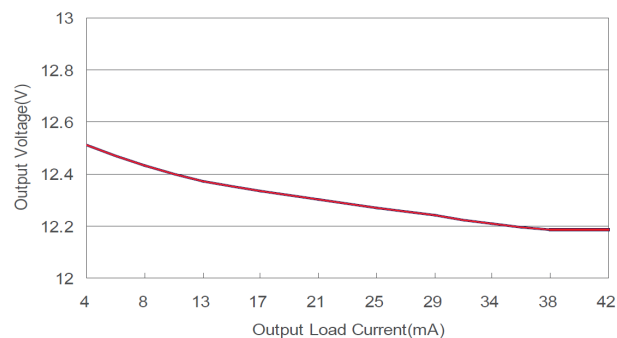
TMA 1215D

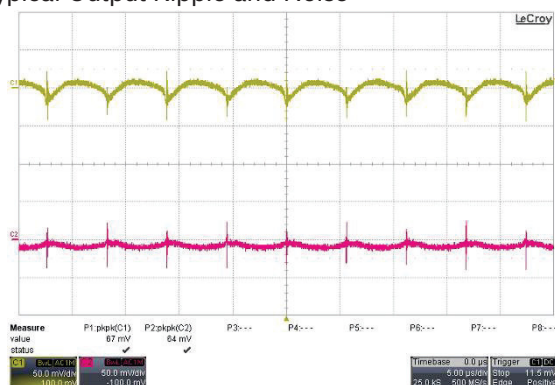### Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current
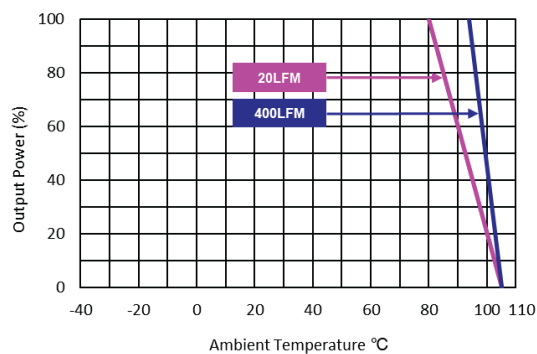

Typical Output Ripple and Noise
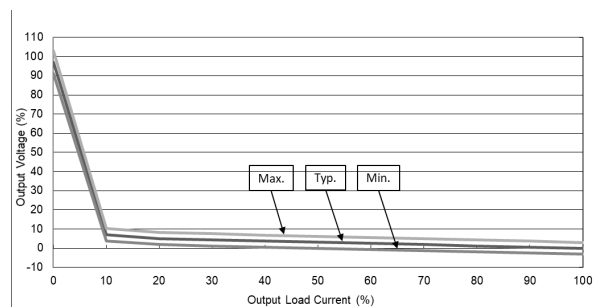

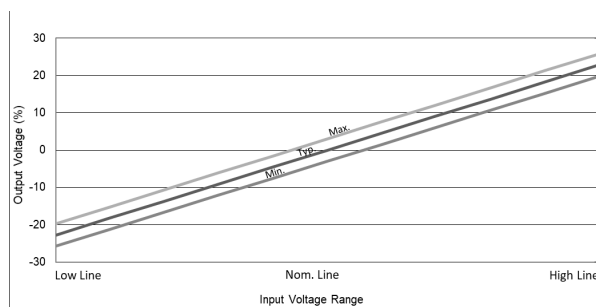### Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature
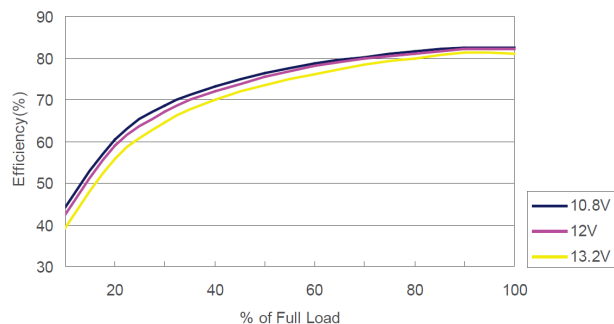

Load Variation versus Output Voltage
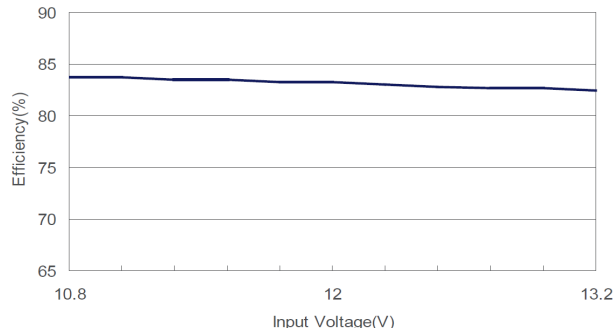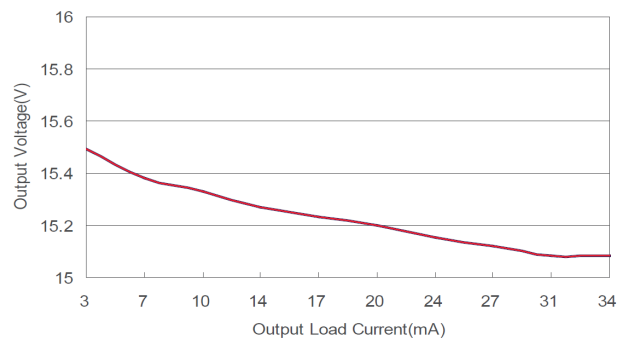

Input Variation versus Output Voltage

TMA 1505S

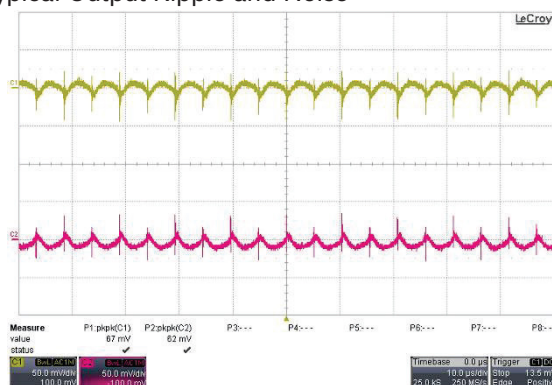### Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current
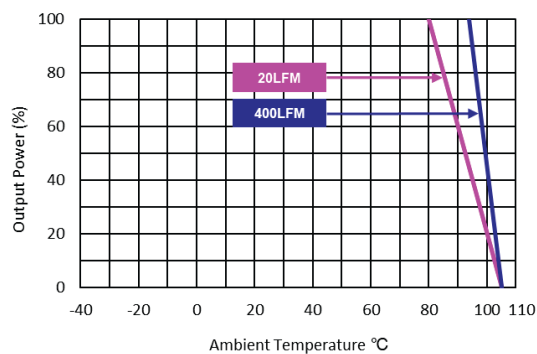

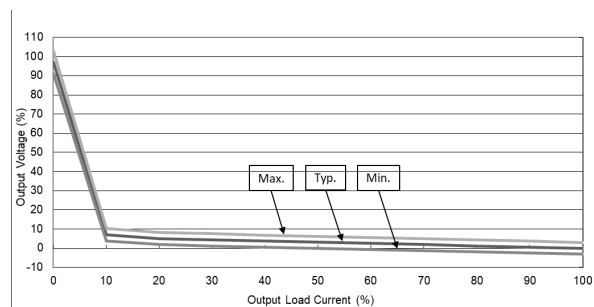### Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
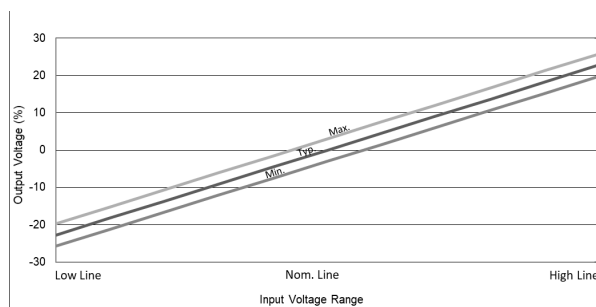

Derating Output Load versus Ambient Temperature
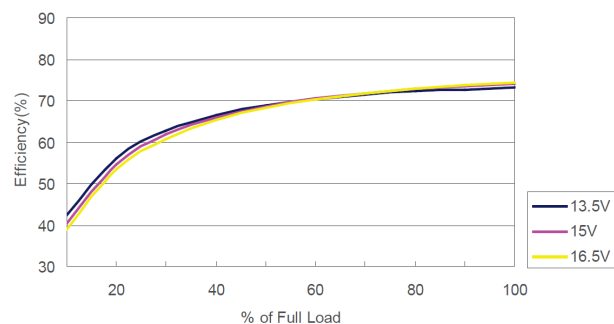

Load Variation versus Output Voltage
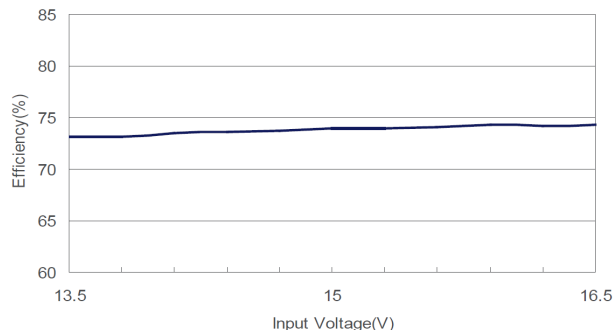

Input Variation versus Output Voltage
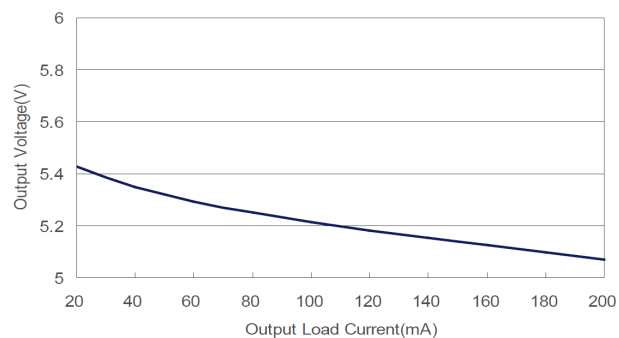
TMA 1512S
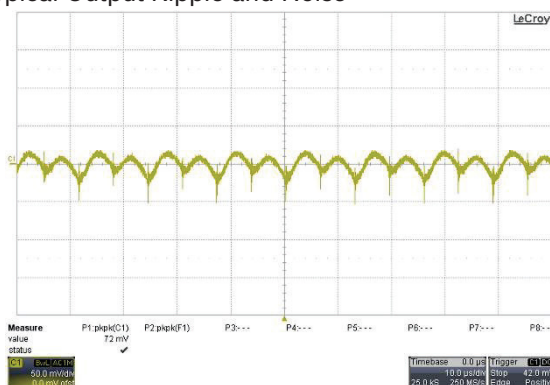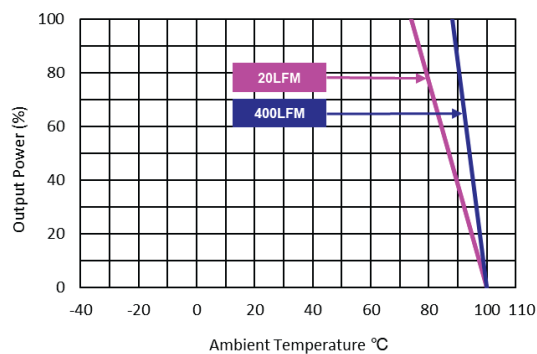
Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current

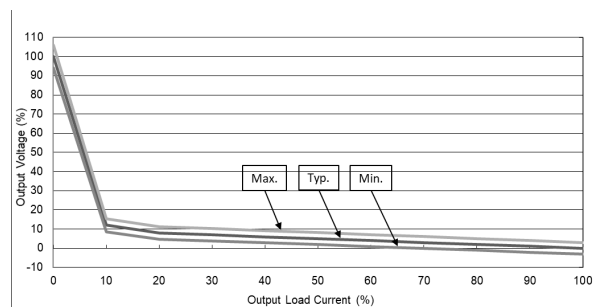## Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
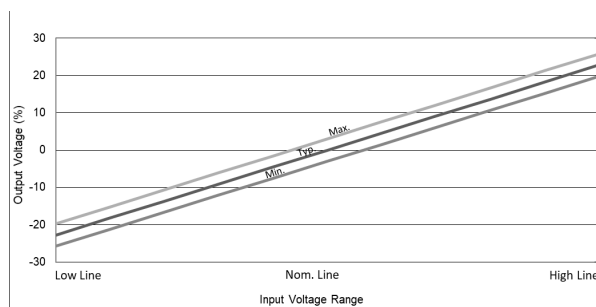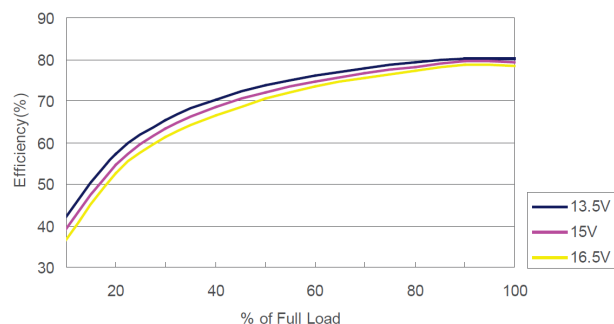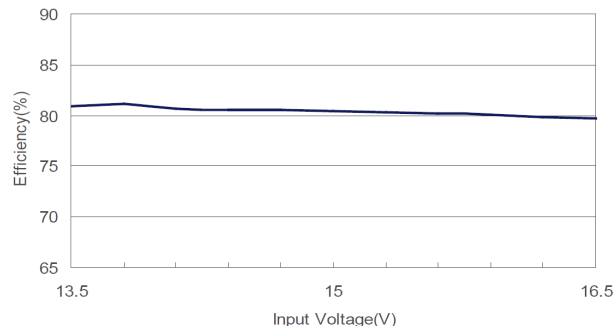

Derating Output Load versus Ambient Temperature

Load Variation versus Output Voltage

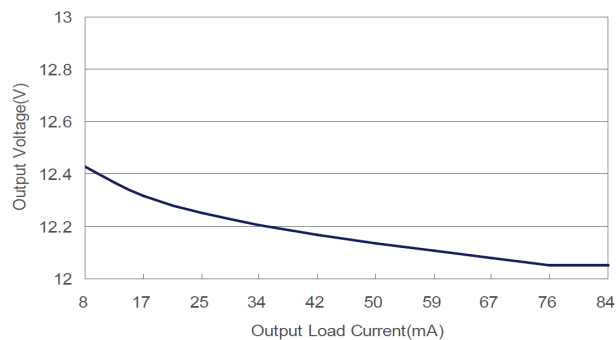## Input Variation versus Output Voltage

TMA 1515S

Efficiency versus Output Load

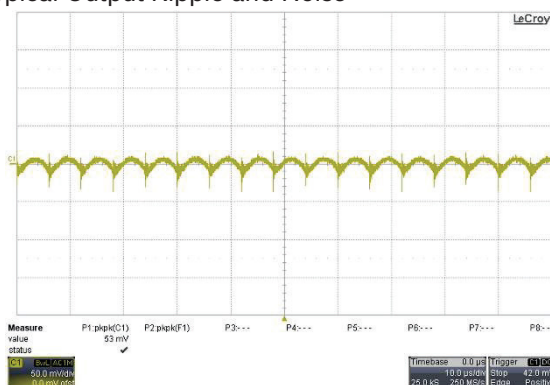
Efficiency versus Input Voltage
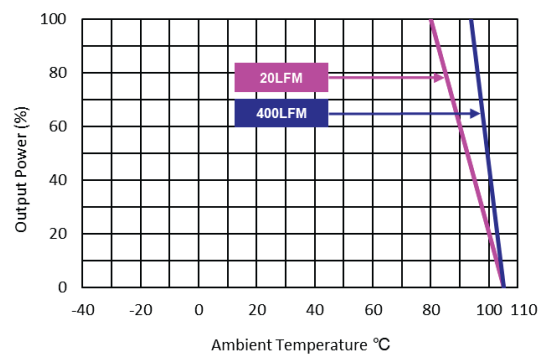

Output Voltage versus Output Current

Typical Output Ripple and Noise
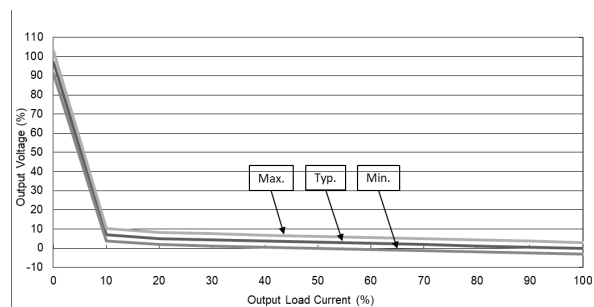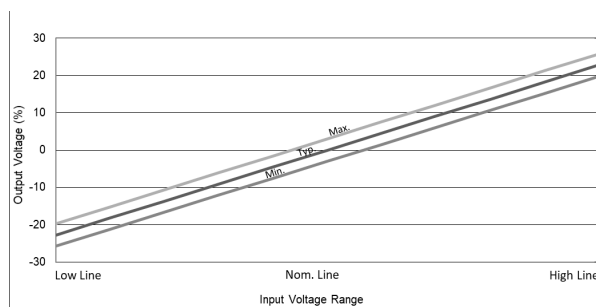

Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature
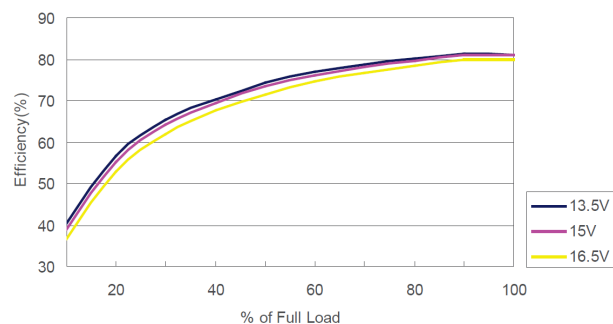

Load Variation versus Output Voltage
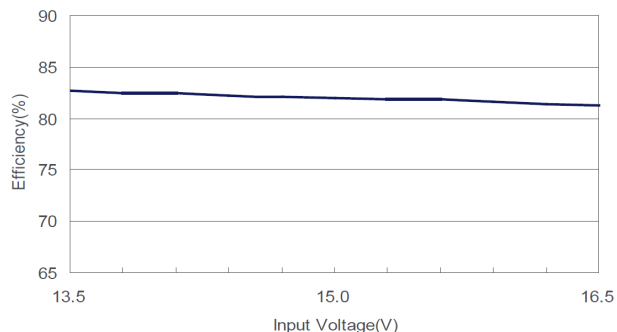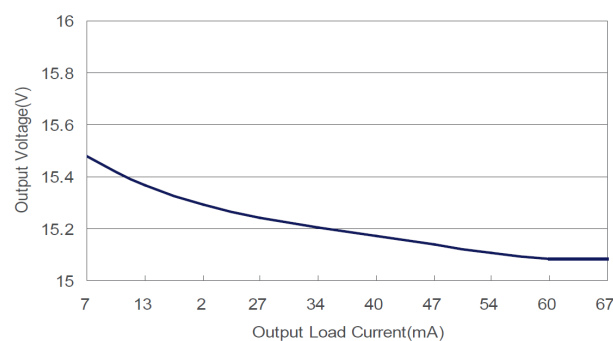

Input Variation versus Output Voltage

TMA 1505D

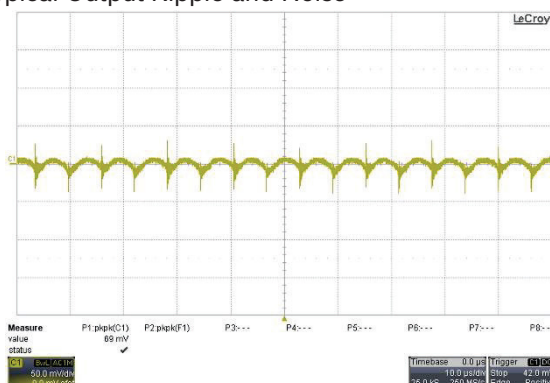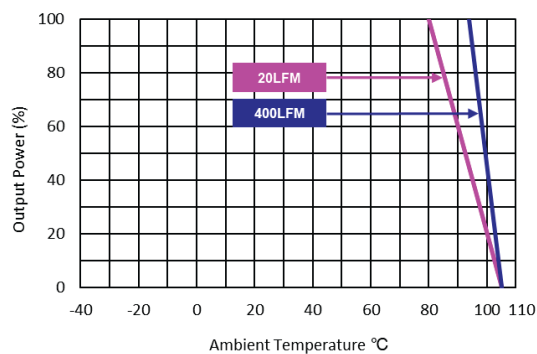### Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current
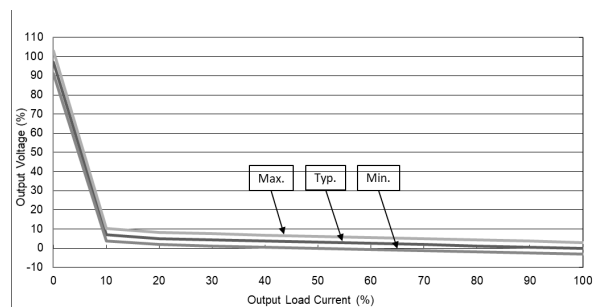

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
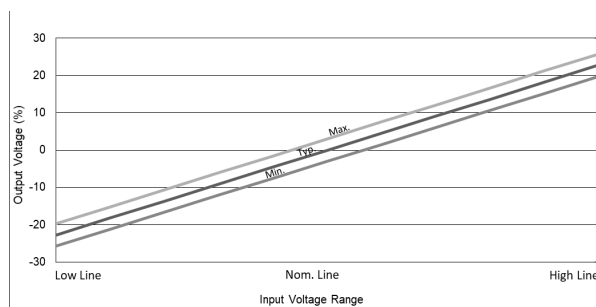

Derating Output Load versus Ambient Temperature
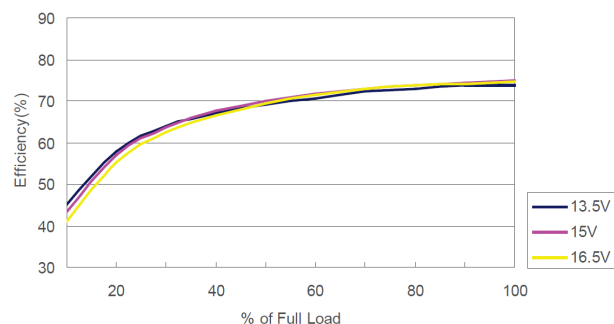

Load Variation versus Output Voltage
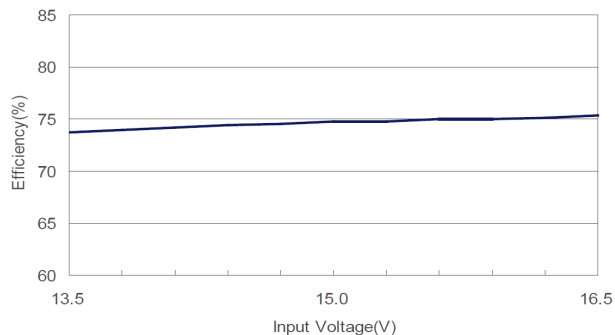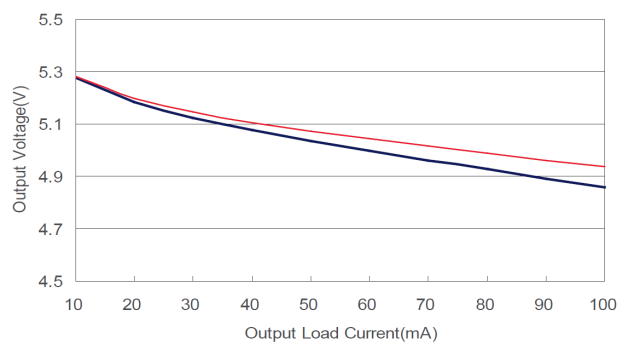

Input Variation versus Output Voltage

TMA 1512D
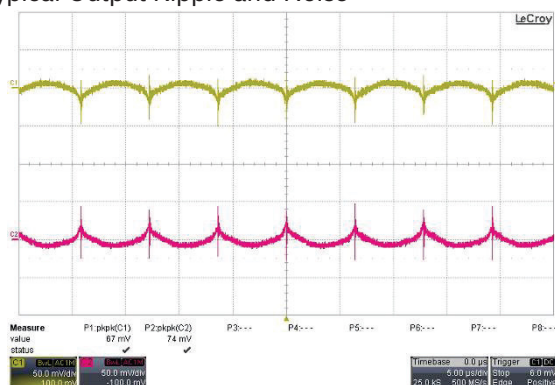
Efficiency versus Output Load
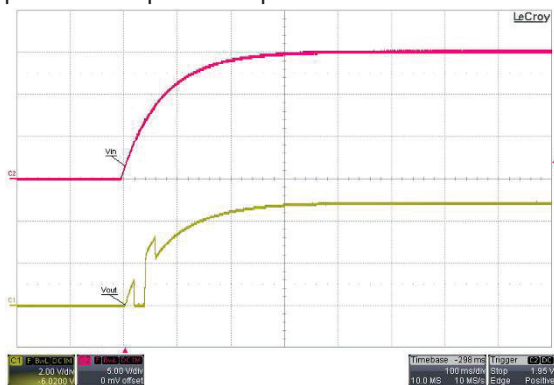

Efficiency versus Input Voltage

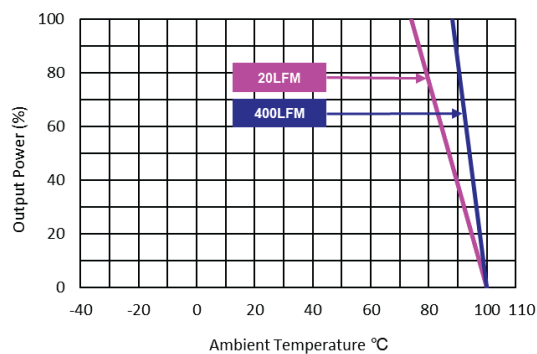### Output Voltage versus Output Current
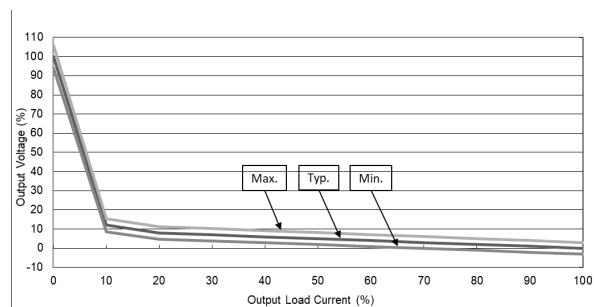

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
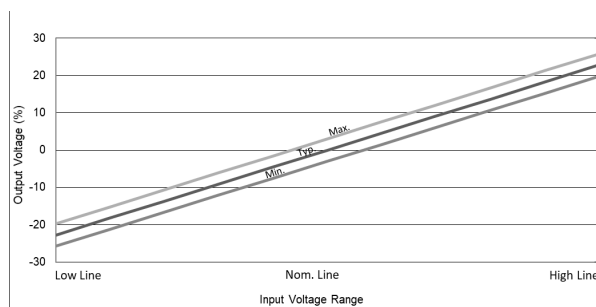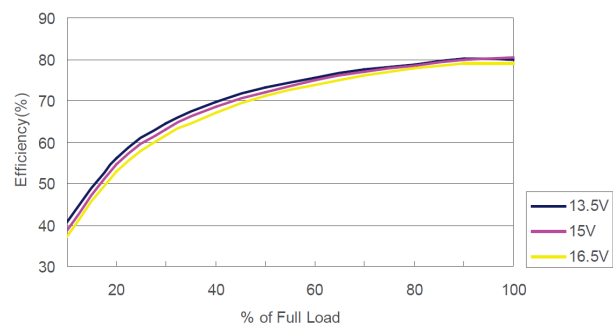

Derating Output Load versus Ambient Temperature

Load Variation versus Output Voltage
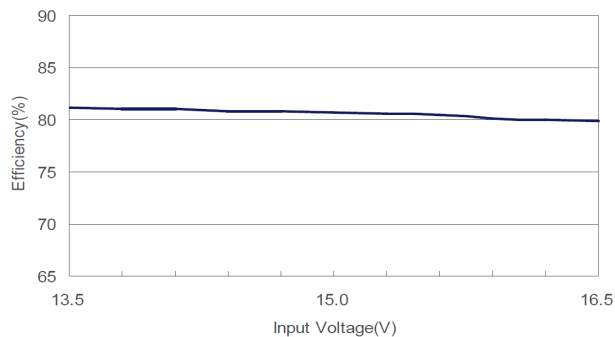

Input Variation versus Output Voltage

TMA 1515D
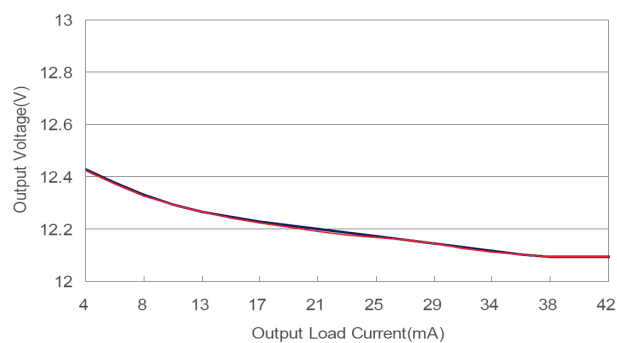
Efficiency versus Output Load
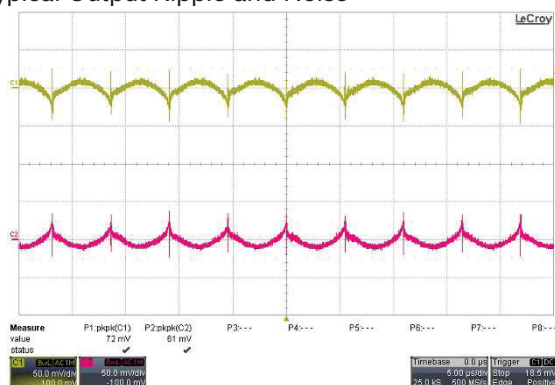

Efficiency versus Input Voltage

Output Voltage versus Output Current

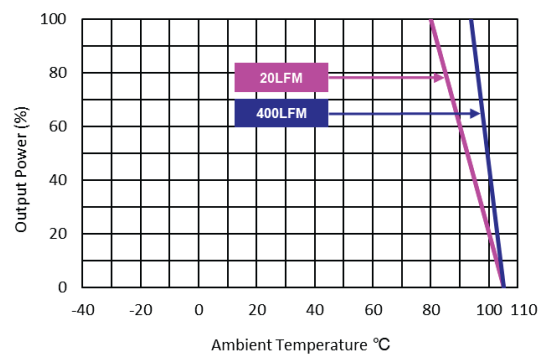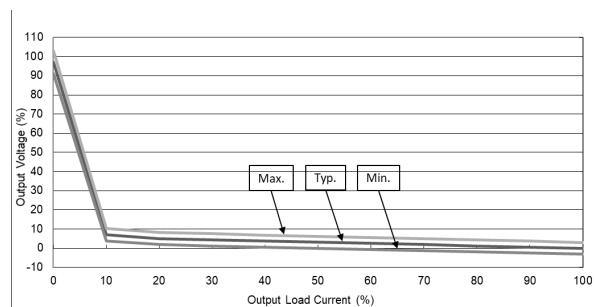## Typical Output Ripple and Noise
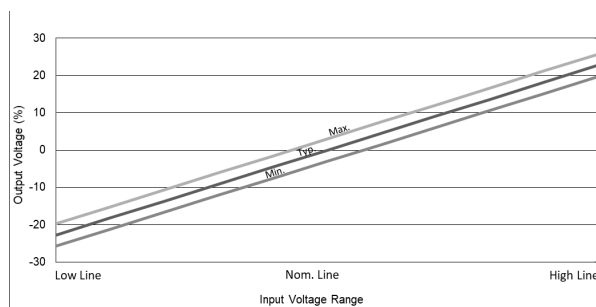

Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature
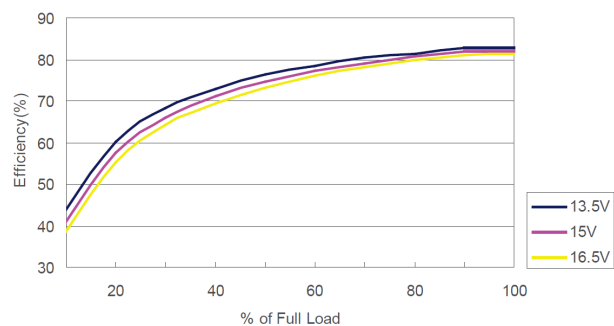

Load Variation versus Output Voltage
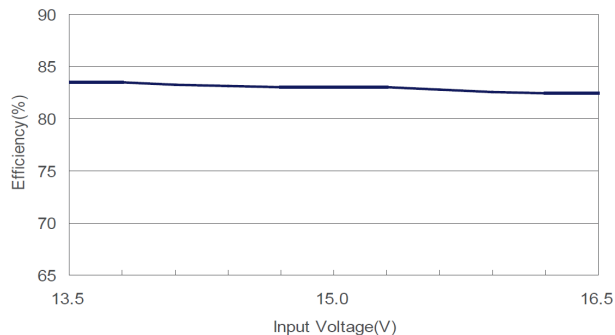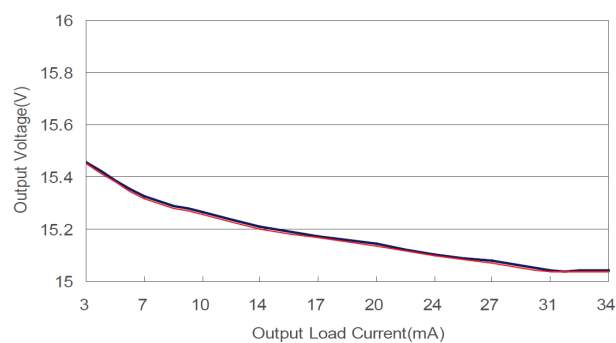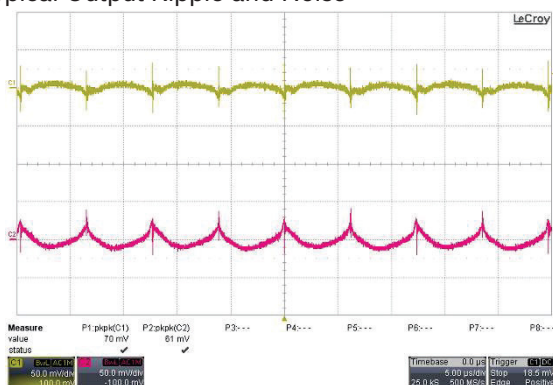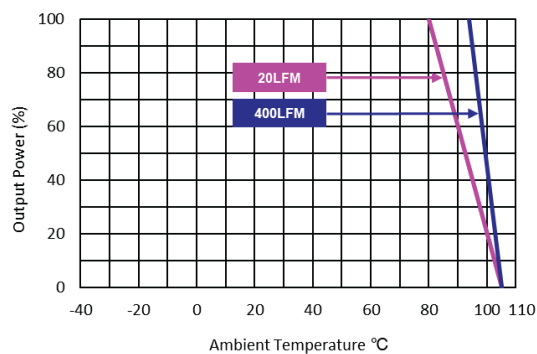

Input Variation versus Output Voltage

TMA 2405S

Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current

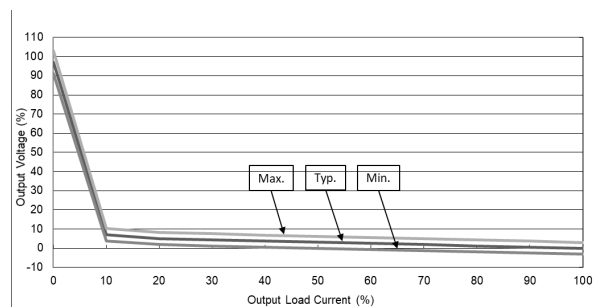### Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
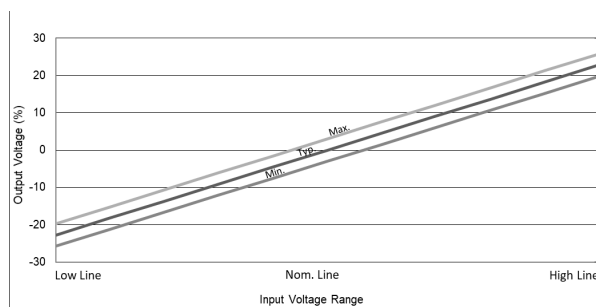

Derating Output Load versus Ambient Temperature
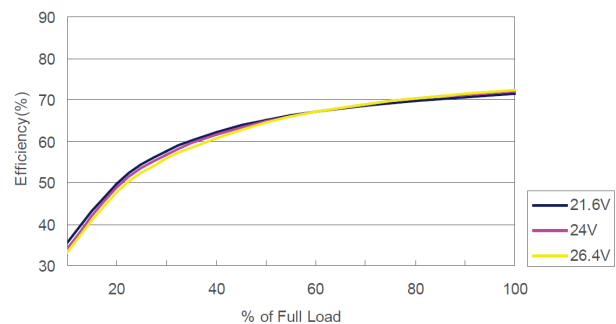

Load Variation versus Output Voltage
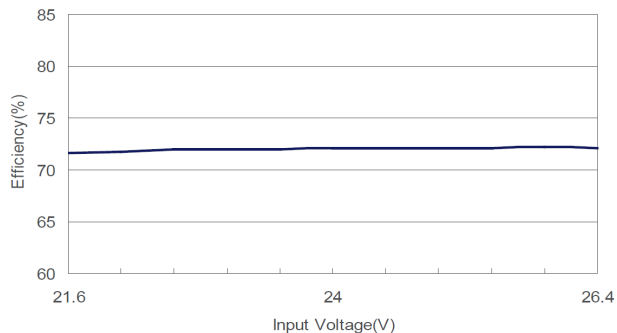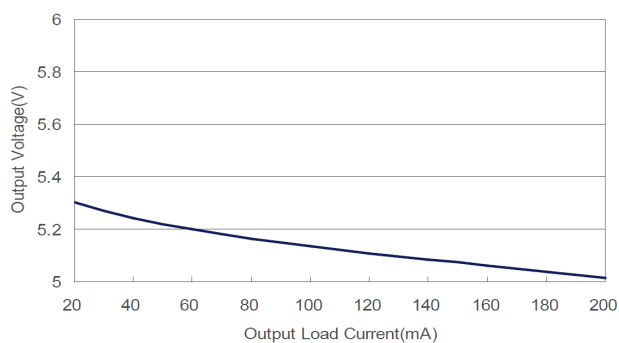

Input Variation versus Output Voltage

TMA 2412S
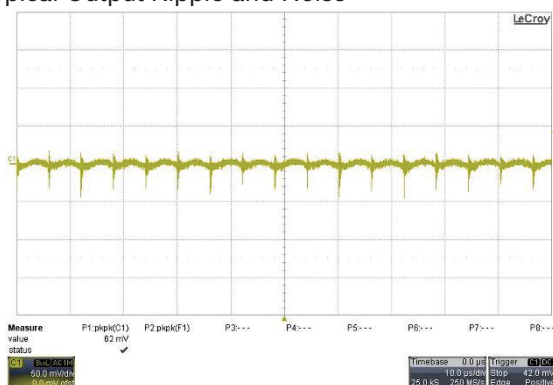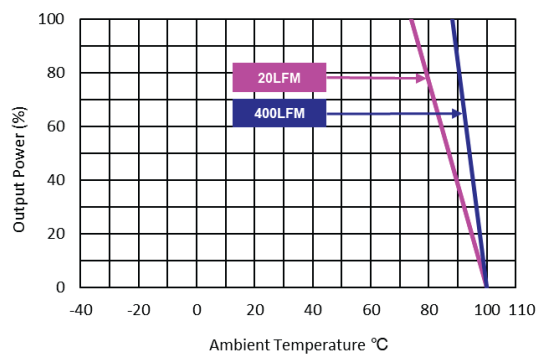
Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current
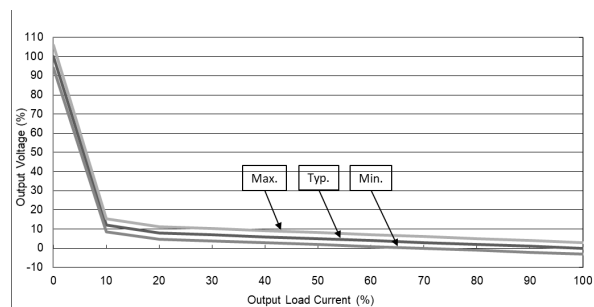

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
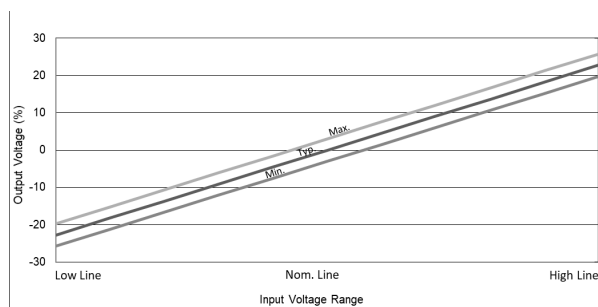

Derating Output Load versus Ambient Temperature
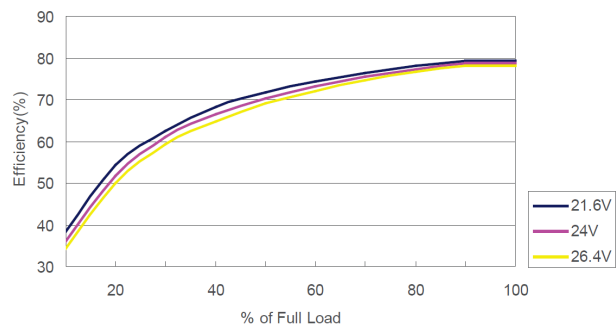

Load Variation versus Output Voltage
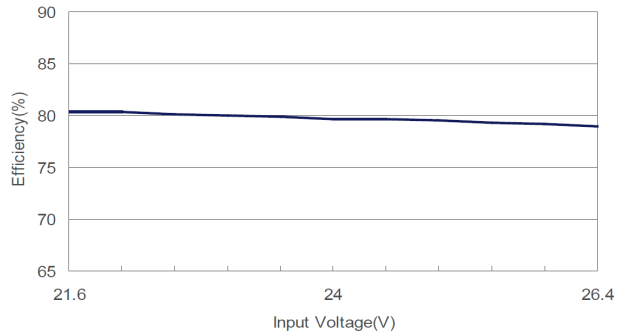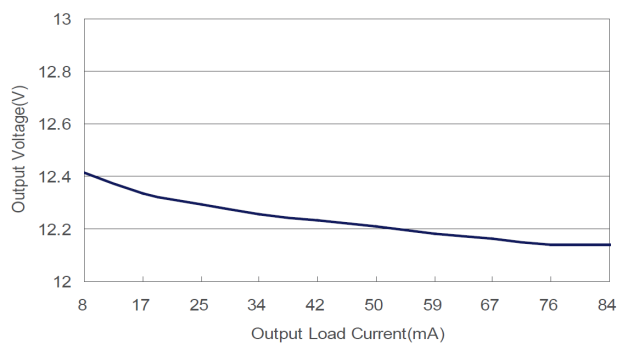

Input Variation versus Output Voltage

TMA 2415S
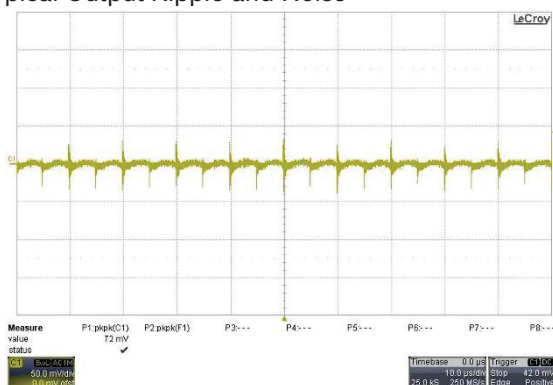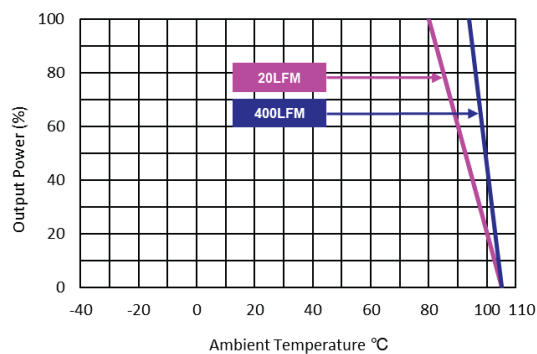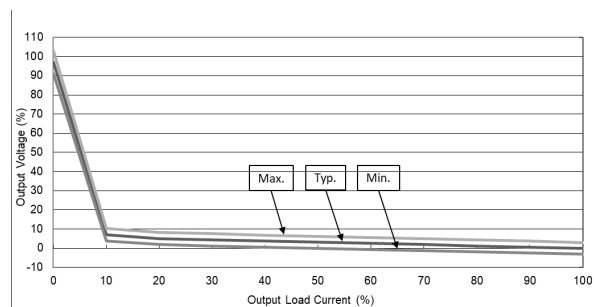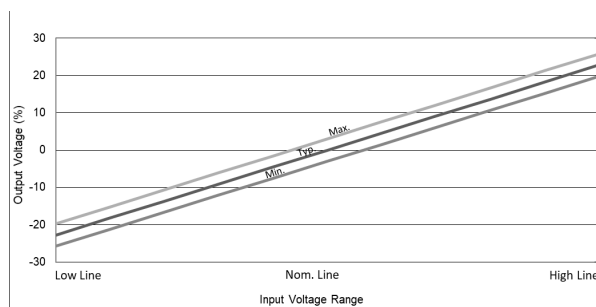
Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature
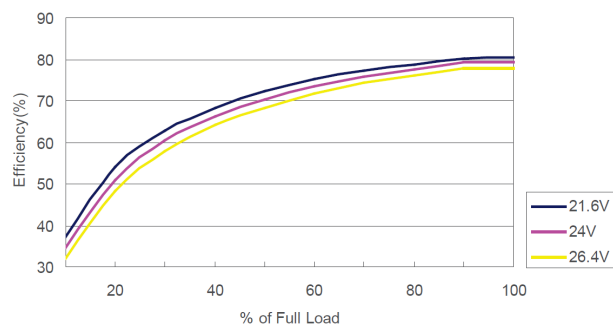

Load Variation versus Output Voltage
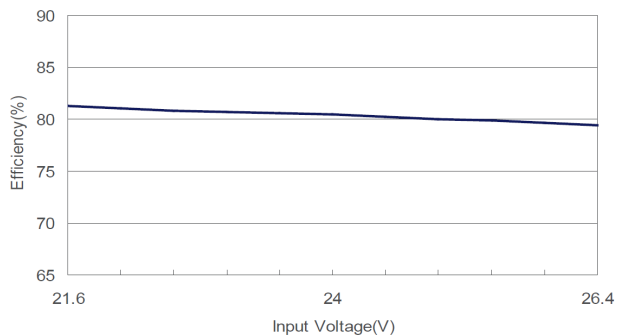

Input Variation versus Output Voltage

TMA 2405D
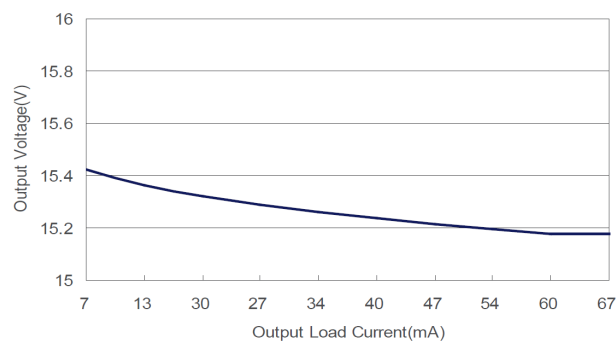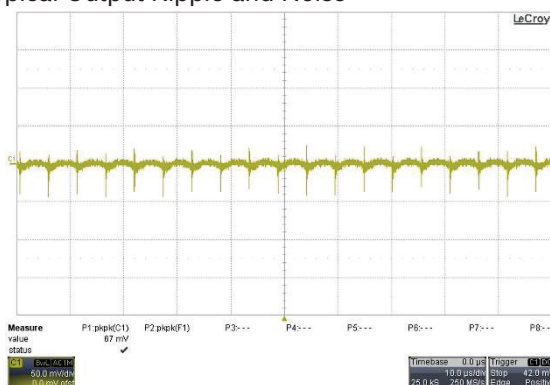
Efficiency versus Output Load
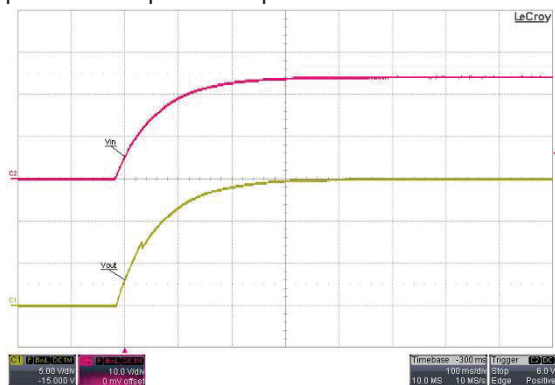

Efficiency versus Input Voltage

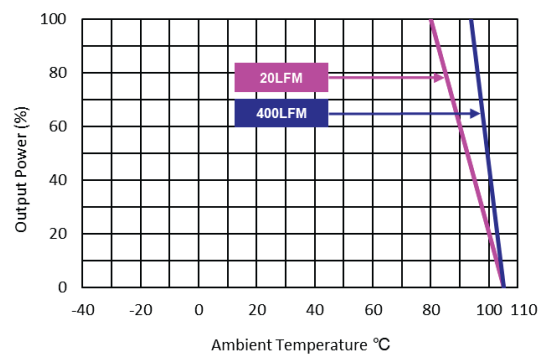### Output Voltage versus Output Current
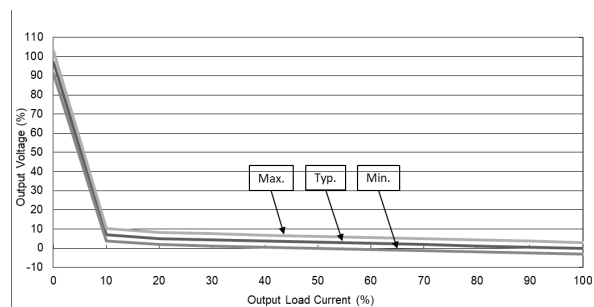

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
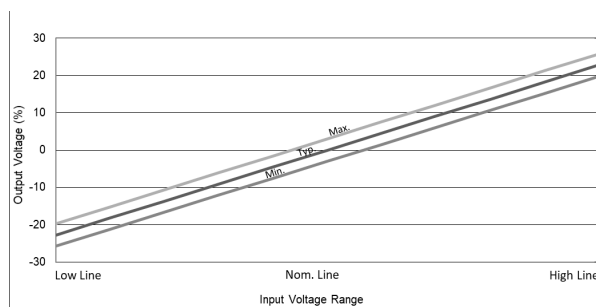

Derating Output Load versus Ambient Temperature
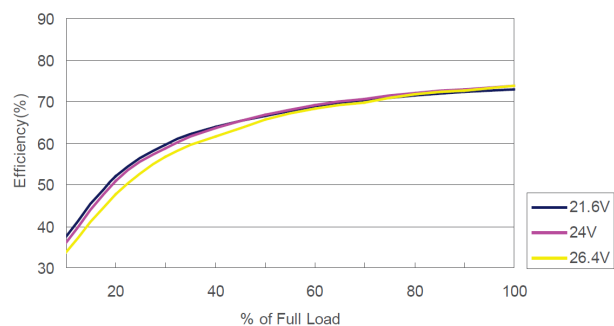

Load Variation versus Output Voltage
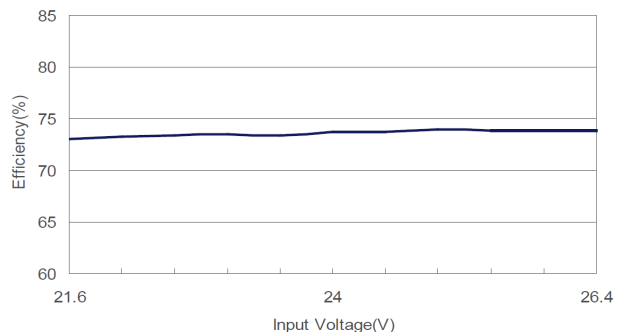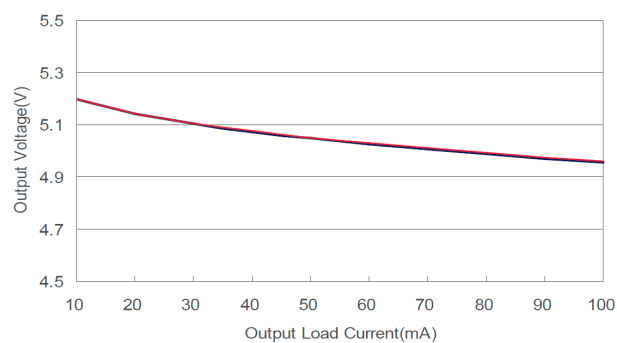

Input Variation versus Output Voltage

TMA 2412D
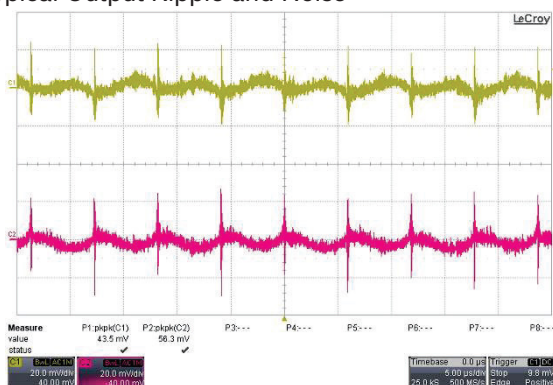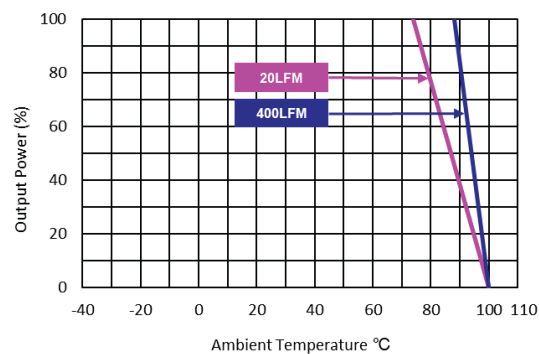
Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current
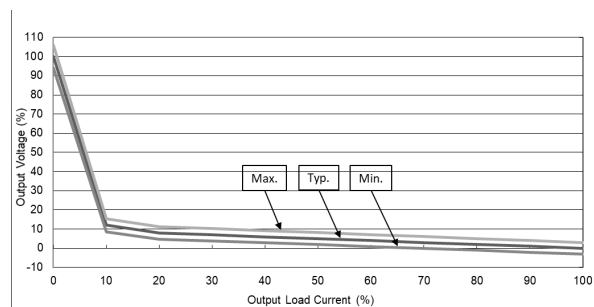

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic
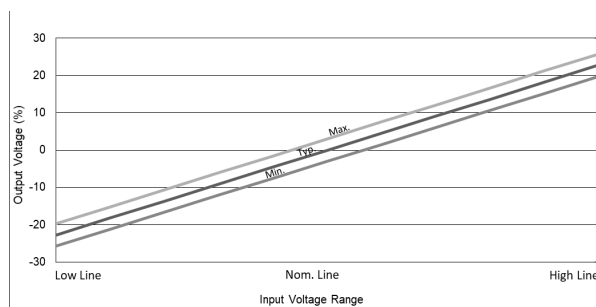

Derating Output Load versus Ambient Temperature
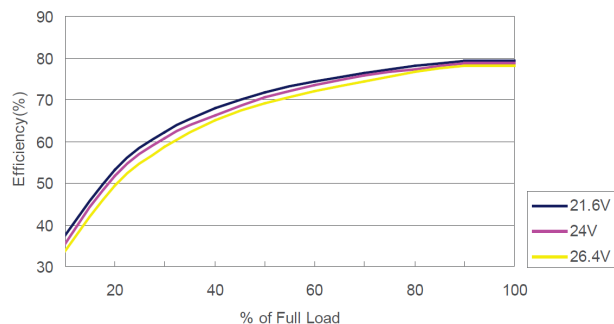

Load Variation versus Output Voltage
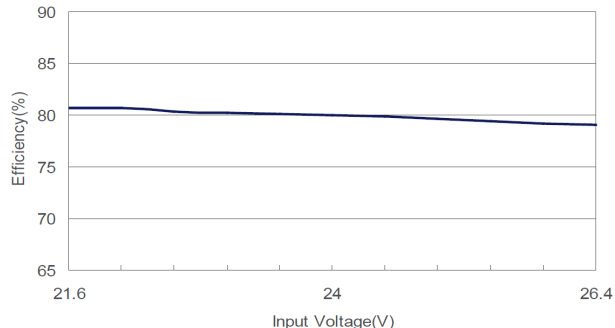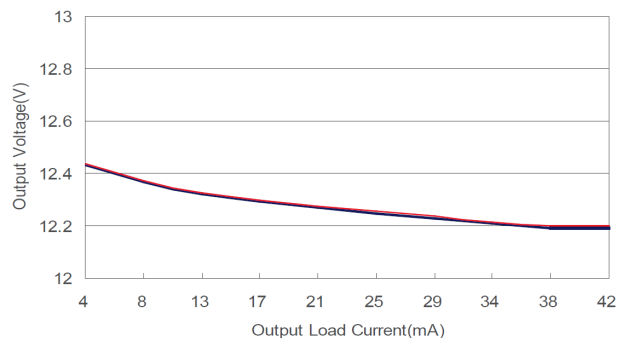

Input Variation versus Output Voltage

TMA 2415D
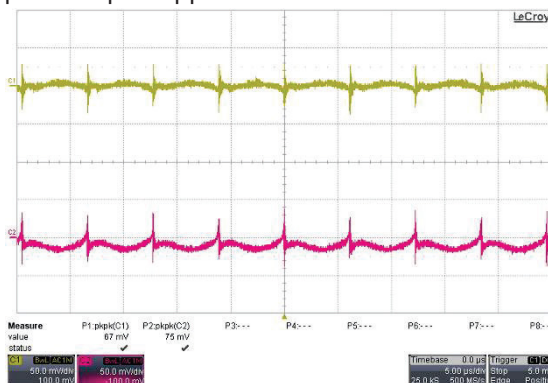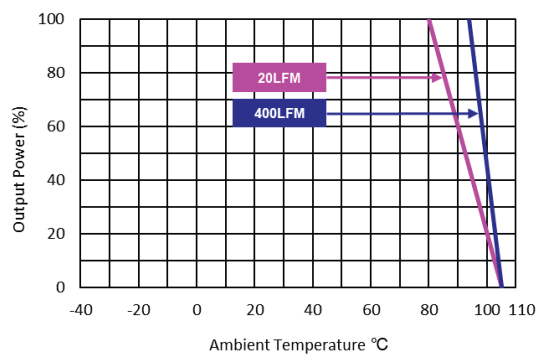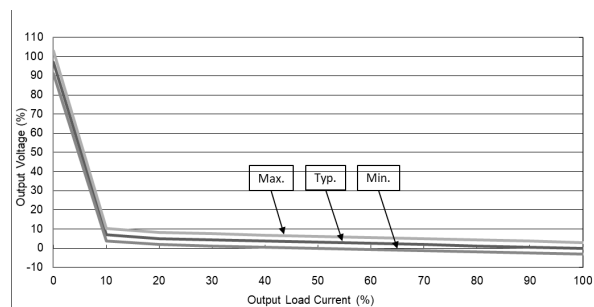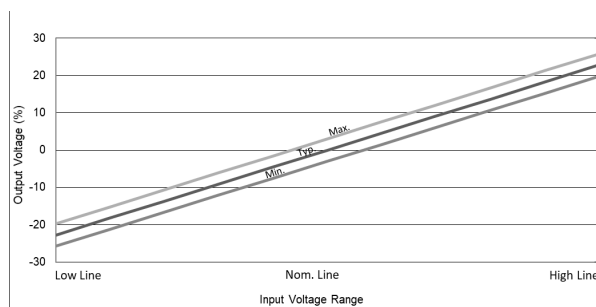
Efficiency versus Output Load

Efficiency versus Input Voltage

Output Voltage versus Output Current

Typical Output Ripple and Noise

Typical Start-Up and Output Rise Characteristic

Derating Output Load versus Ambient Temperature
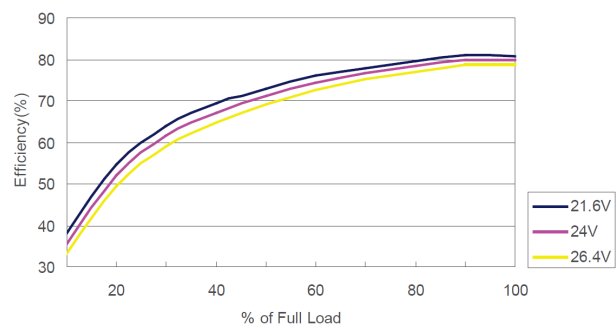

Load Variation versus Output Voltage
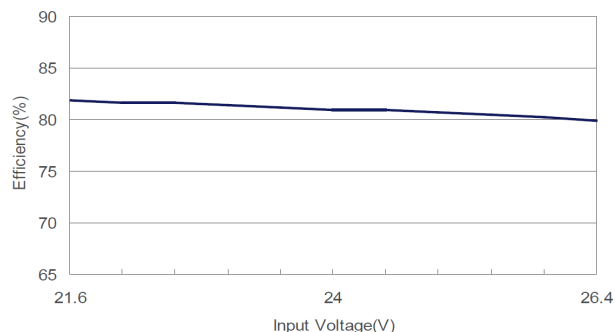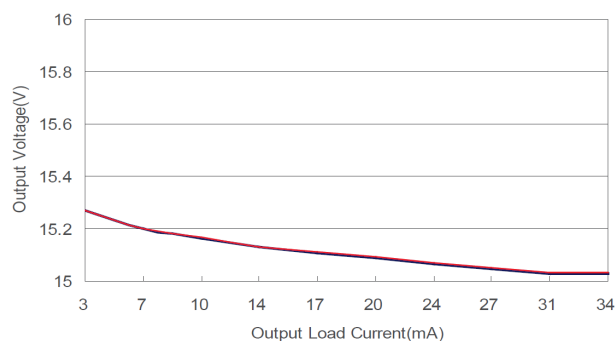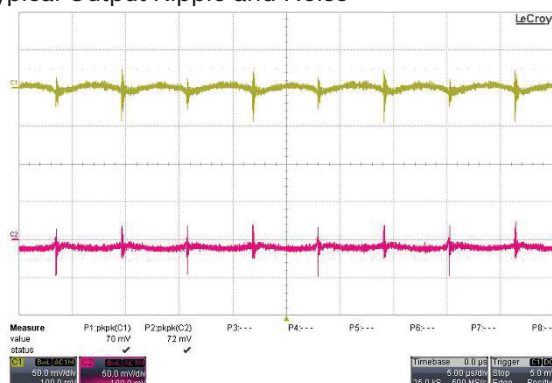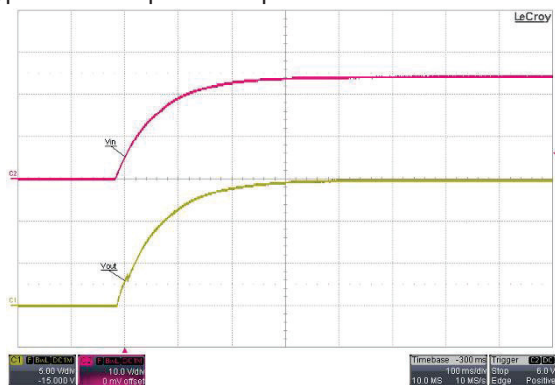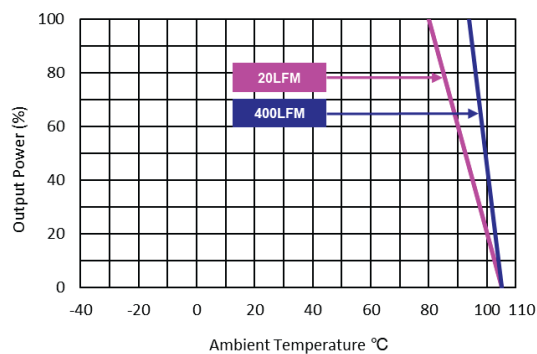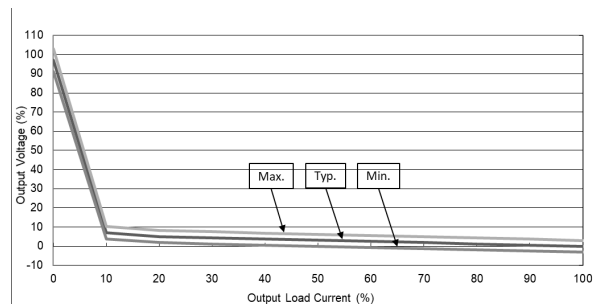

Input Variation versus Output Voltage

Specifications can be changed without notice!