# TRACO POWER
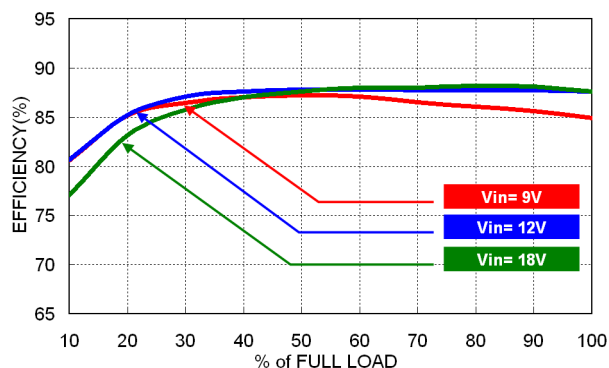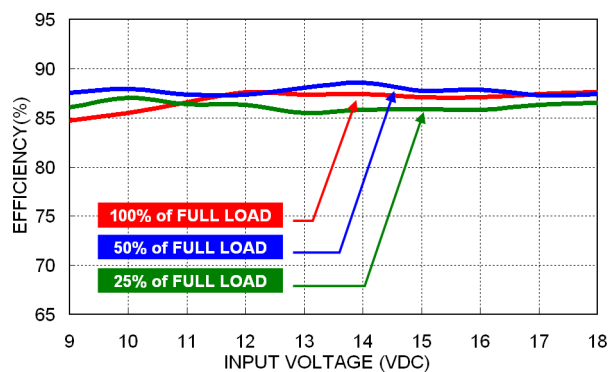
## Characteristic Curves
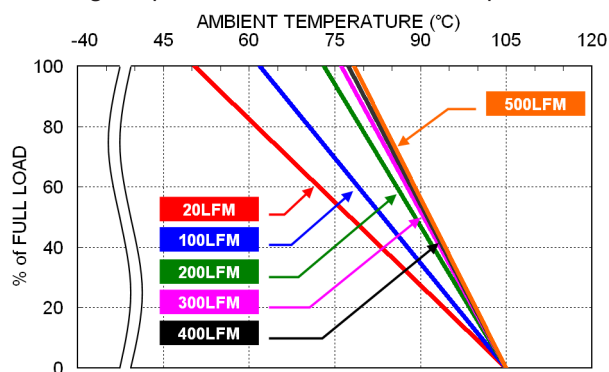
### THM 30-1211

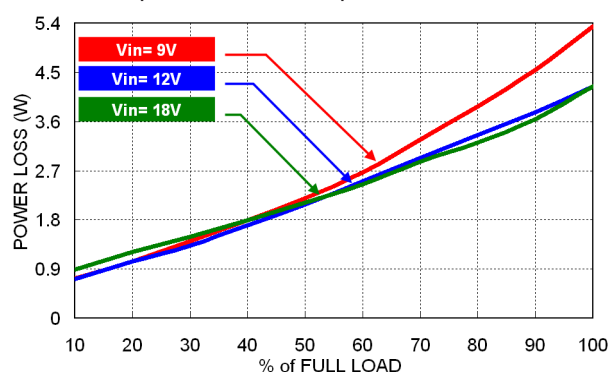Efficiency versus Output Load



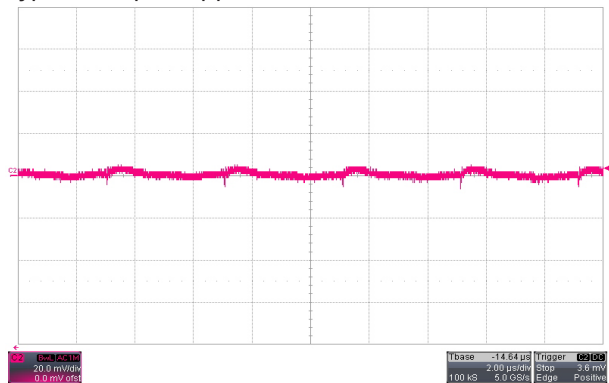Efficiency versus Input Voltage



Derating Output Load versus Ambient Temperature
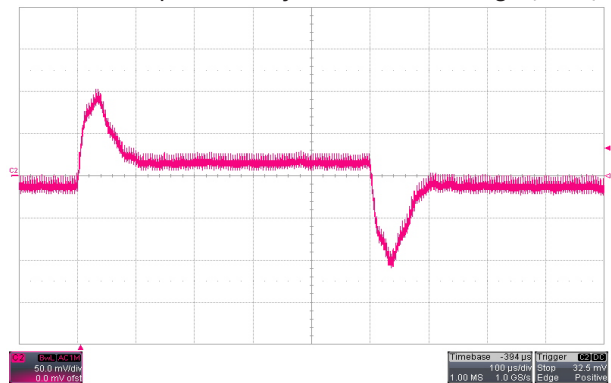


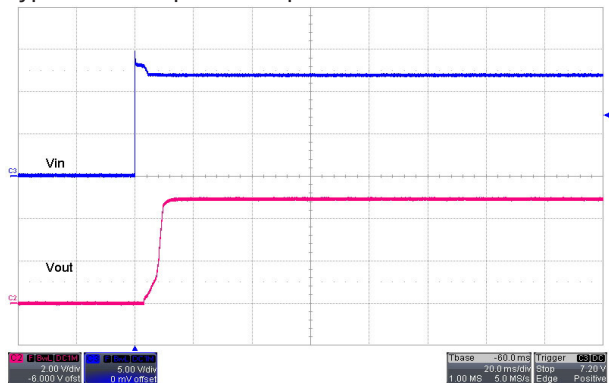Power Dissipation versus Output Load
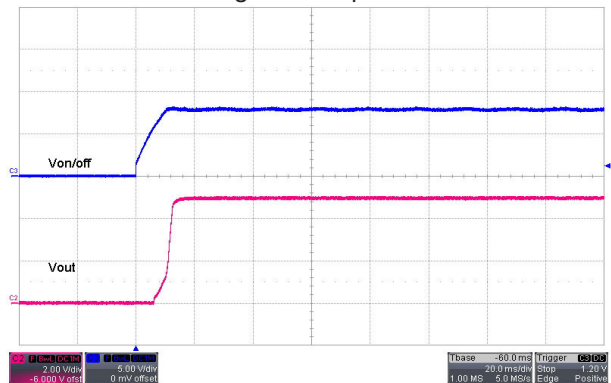


Typical Output Ripple and Noise



Transient Response to Dynamic Load Change (25%)


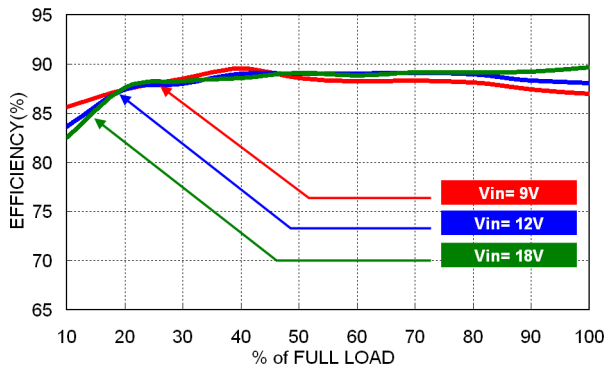
Typical Start-Up and Output Rise Characteristic



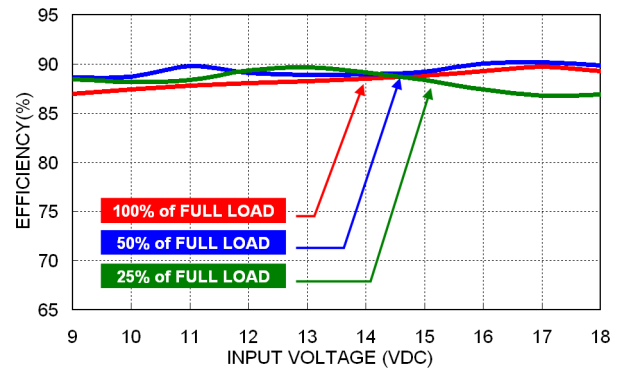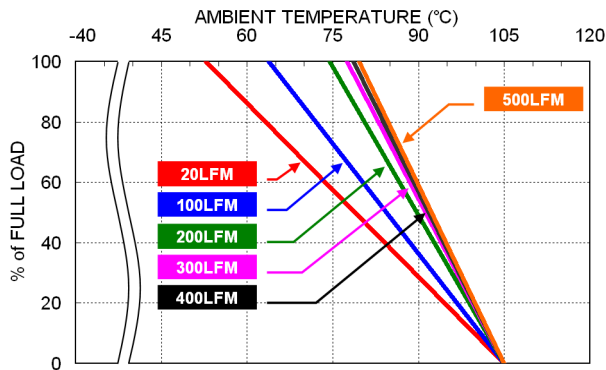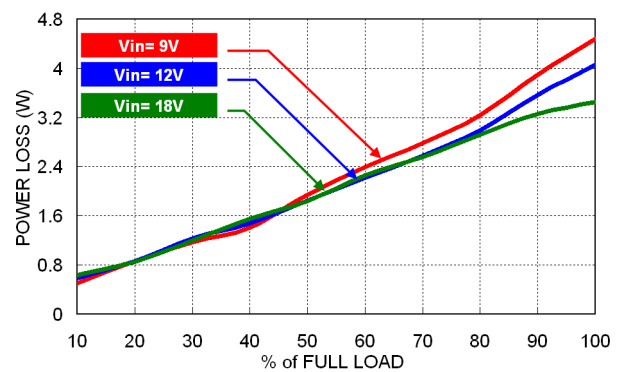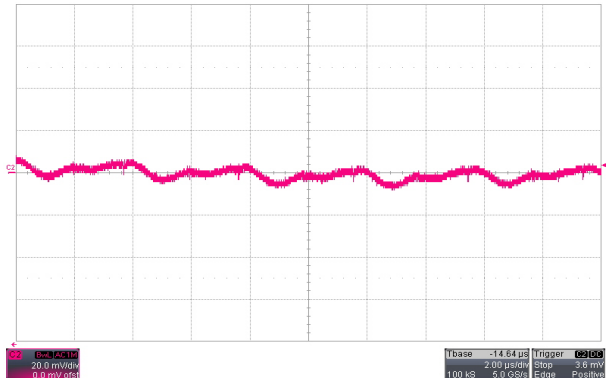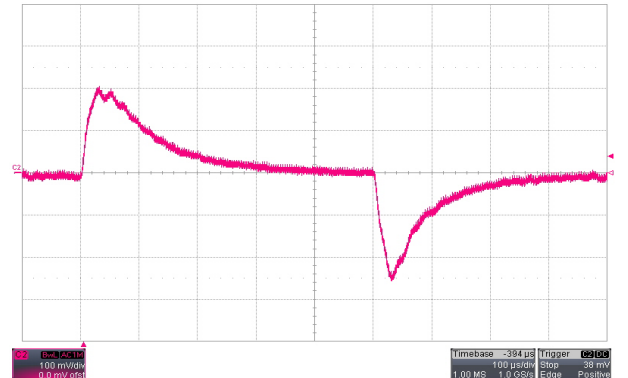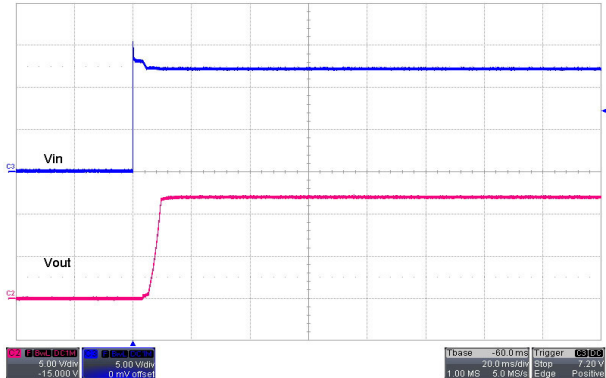Remote on/off Voltage Start-Up Characteristic

## THM 30-1212

### Efficiency versus Output Load



Legend: Vin= 9V, Vin= 12V, Vin= 18V

### Efficiency versus Input Voltage



Legend: 100% of FULL LOAD, 50% of FULL LOAD, 25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



Legend: 20LFM, 100LFM, 200LFM, 300LFM, 400LFM, 500LFM

### Power Dissipation versus Output Load



Legend: Vin= 9V, Vin= 12V, Vin= 18V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



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



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

## THM 30-1213

### Efficiency versus Output Load



### Efficiency versus Input Voltage



### Derating Output Load versus Ambient Temperature



### Power Dissipation versus Output Load


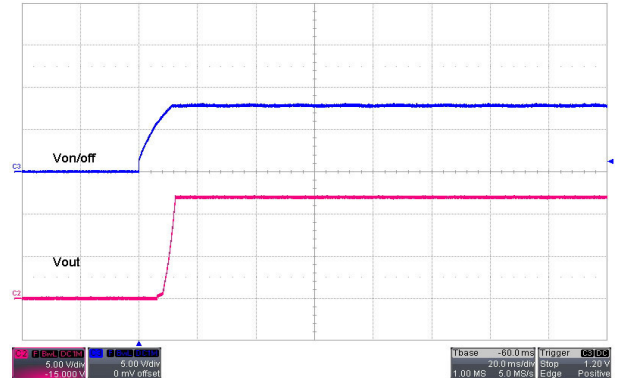
### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



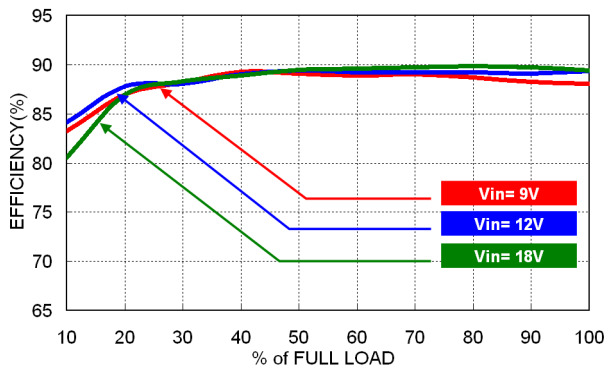### Typical Start-Up and Output Rise Characteristic



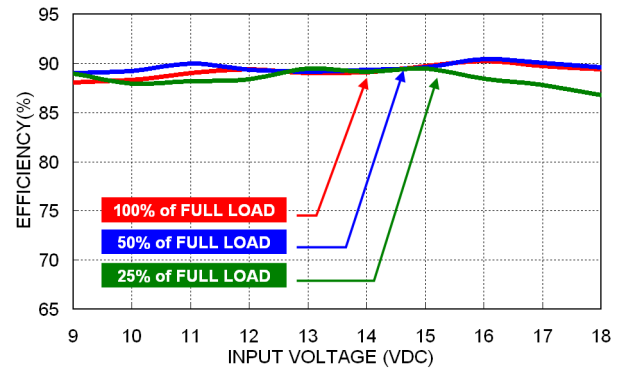### Remote on/off Voltage Start-Up Characteristic



All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
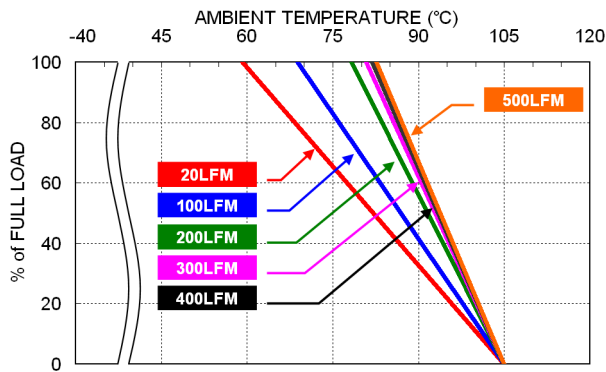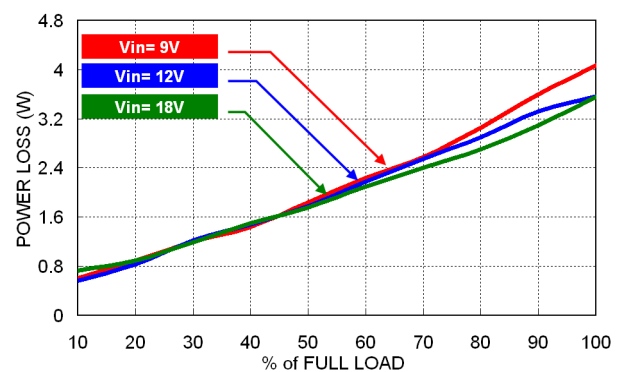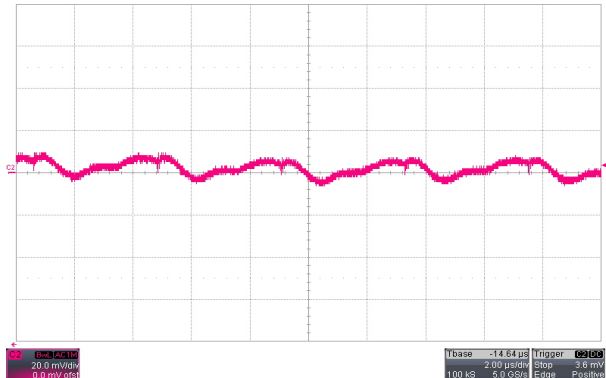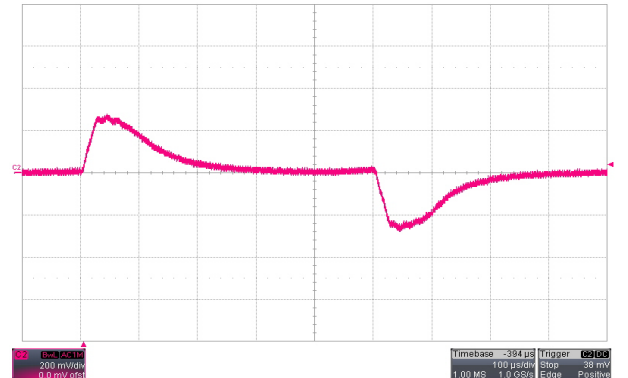
## THM 30-1215

### Efficiency versus Output Load



Vin= 9V
Vin= 12V
Vin= 18V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



500LFM

20LFM
100LFM
200LFM
300LFM
400LFM

### Power Dissipation versus Output Load
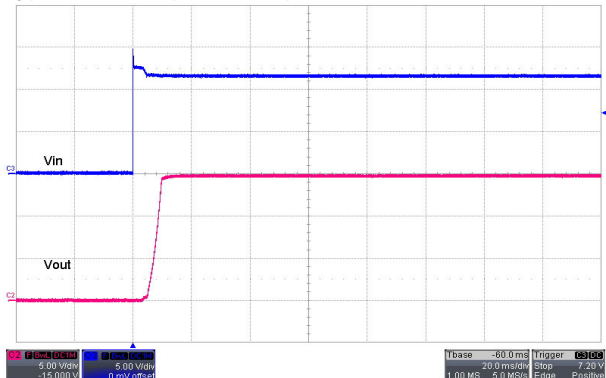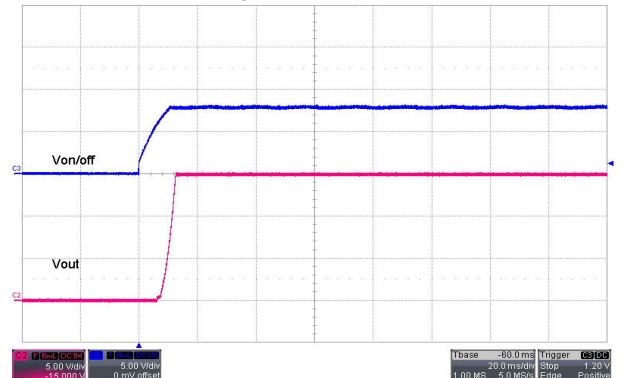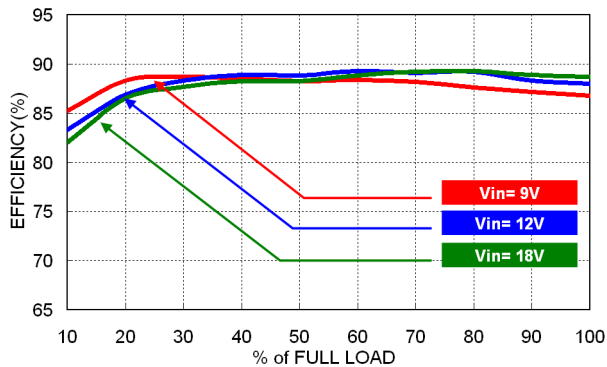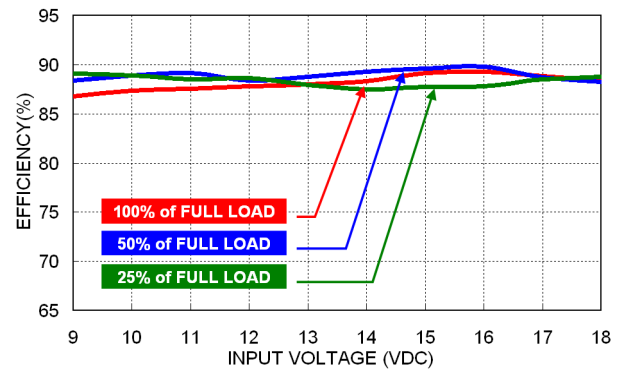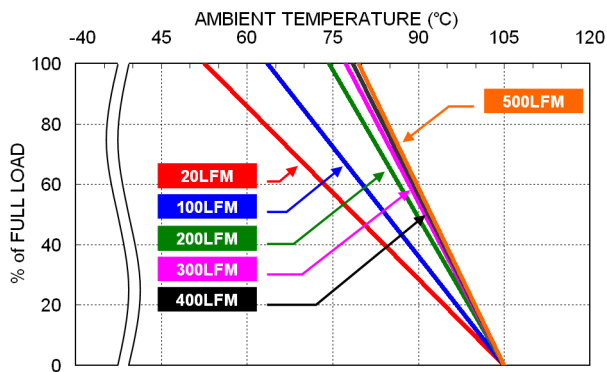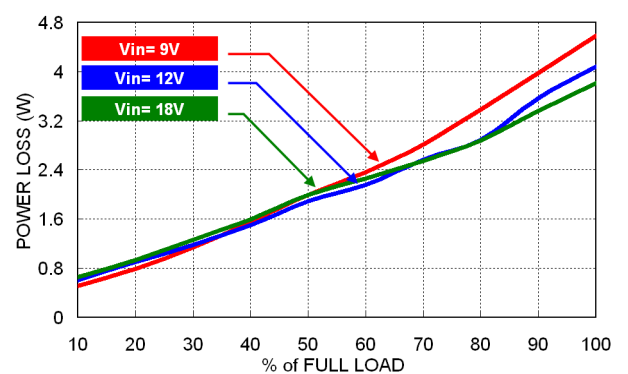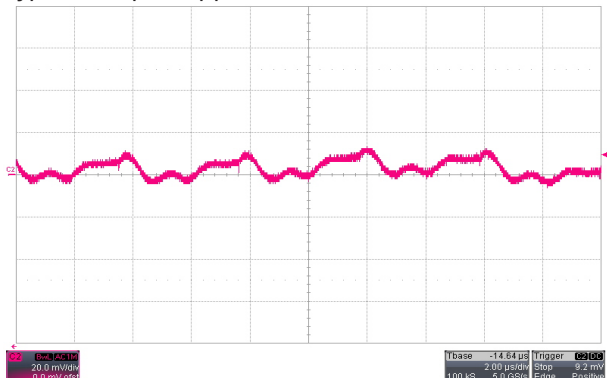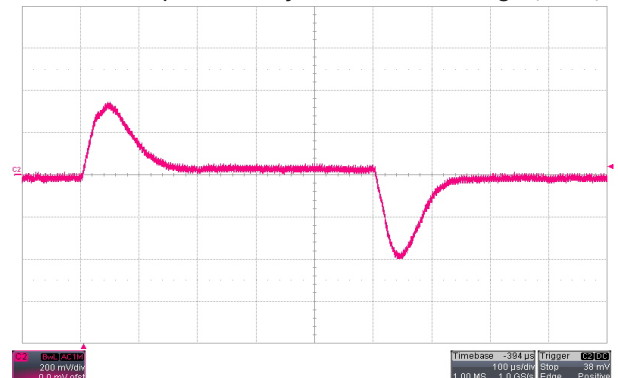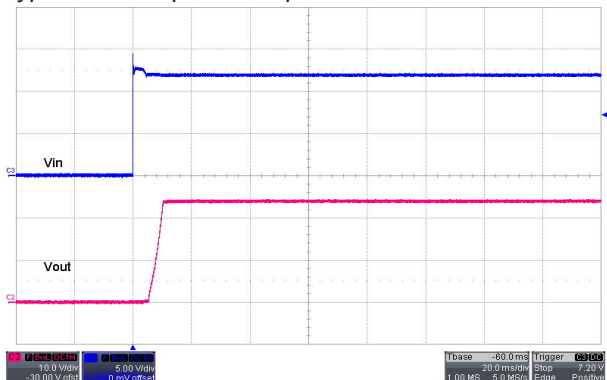


Vin= 9V
Vin= 12V
Vin= 18V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



Vin

Vout

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



Von/off

Vout

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

# TRACO POWER

## THM 30-1221

### Efficiency versus Output Load



Vin= 9V
Vin= 12V
Vin= 18V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



Vin= 9V
Vin= 12V
Vin= 18V
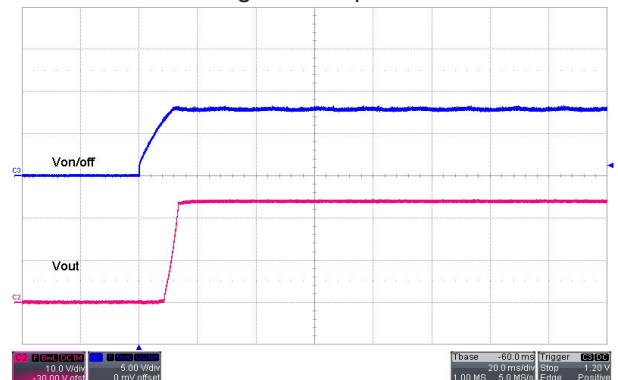
### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



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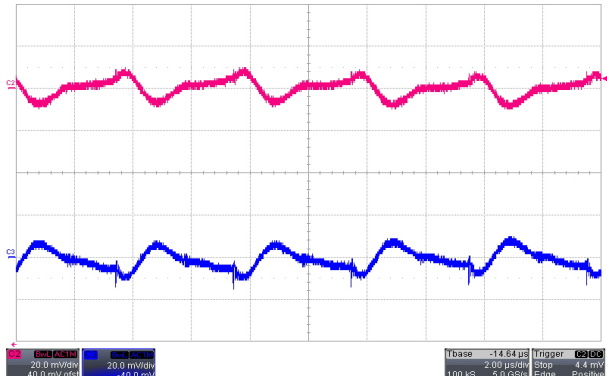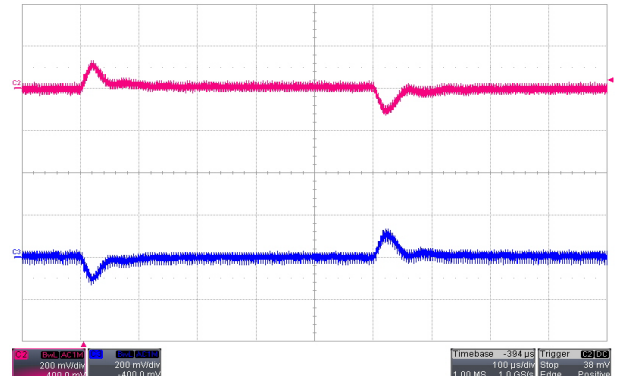
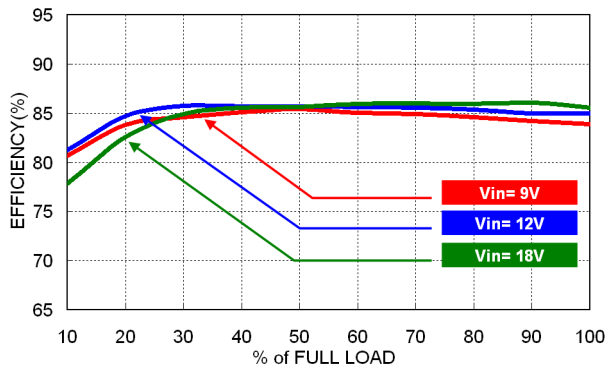### Remote on/off Voltage Start-Up Characteristic



Von/off
Vout

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
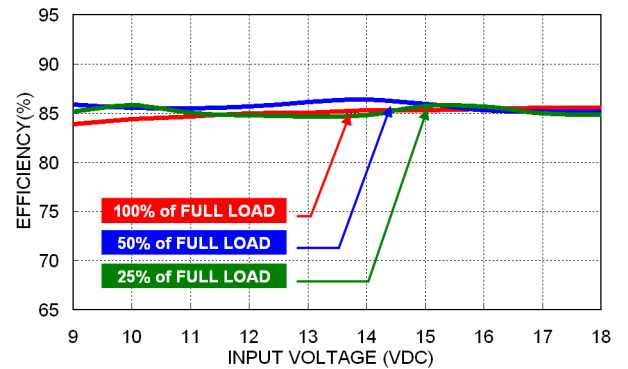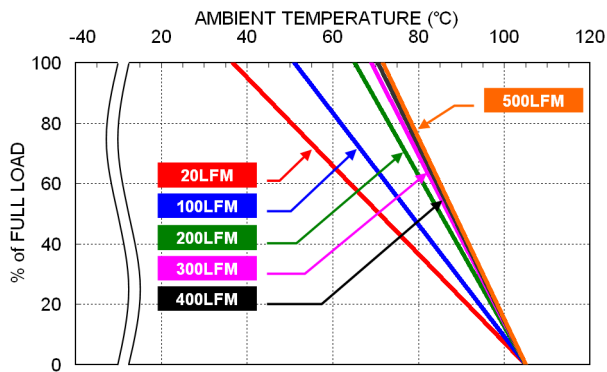
## THM 30-1222
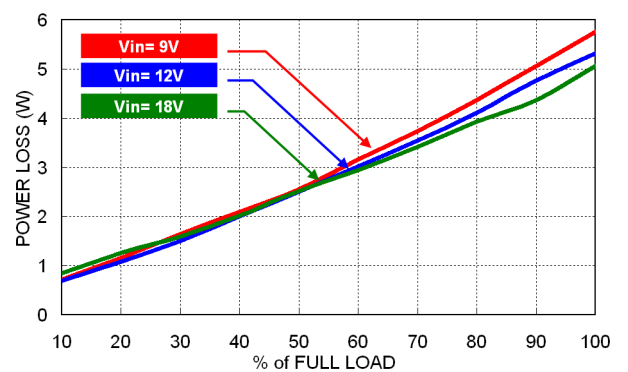
### Efficiency versus Output Load



Vin= 9V
Vin= 12V
Vin= 18V
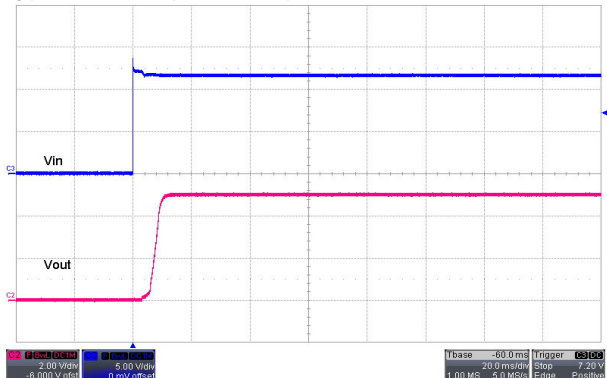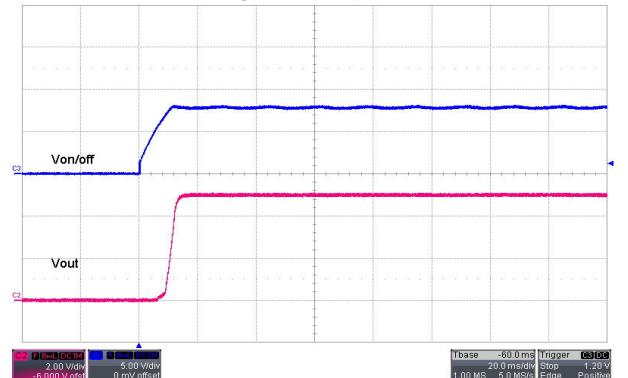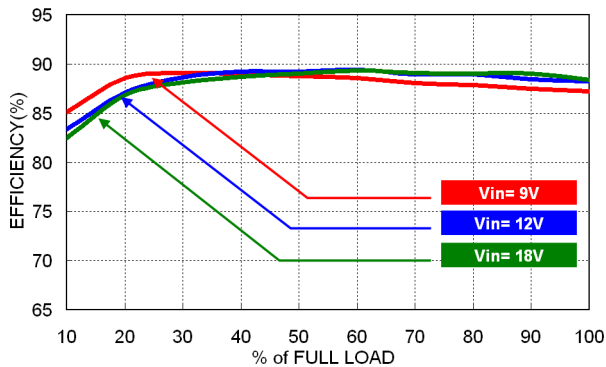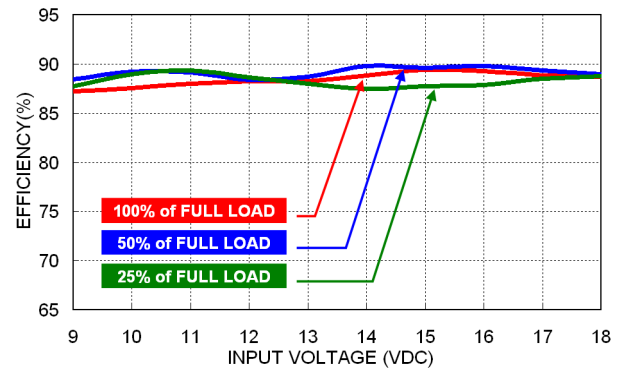
### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



Vin= 9V
Vin= 12V
Vin= 18V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



Vin

Vout

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



Von/off

Vout

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

## THM 30-1223

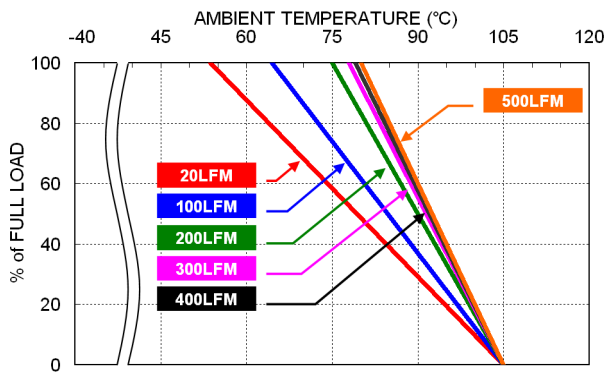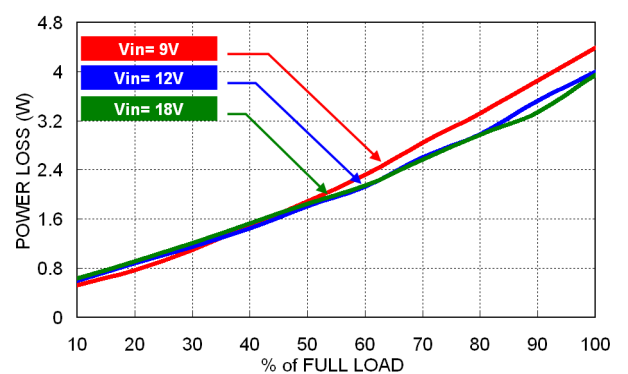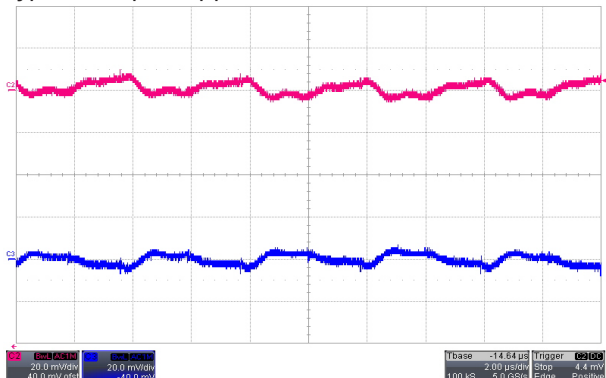### Efficiency versus Output Load



### Efficiency versus Input Voltage



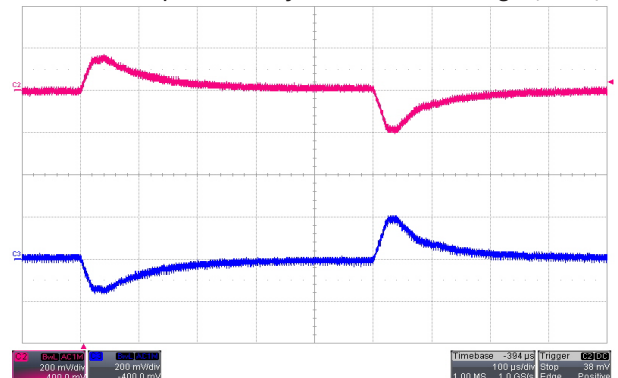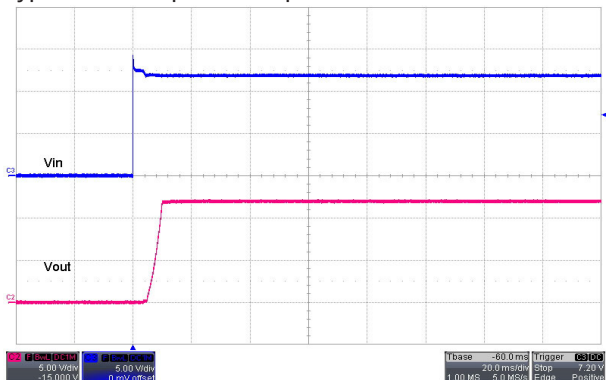### Derating Output Load versus Ambient Temperature



### Power Dissipation versus Output Load



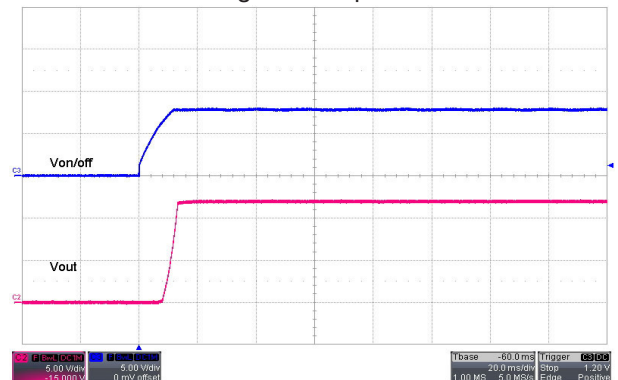### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)
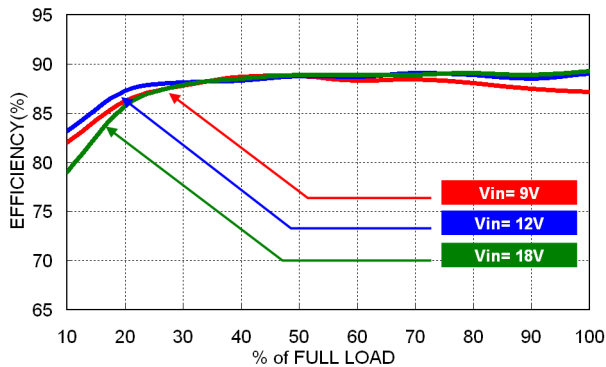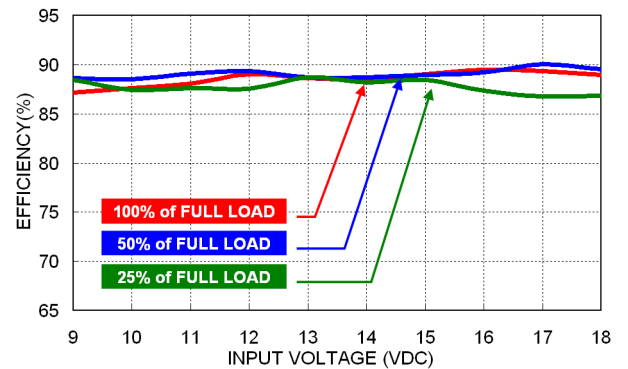


### Typical Start-Up and Output Rise Characteristic



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



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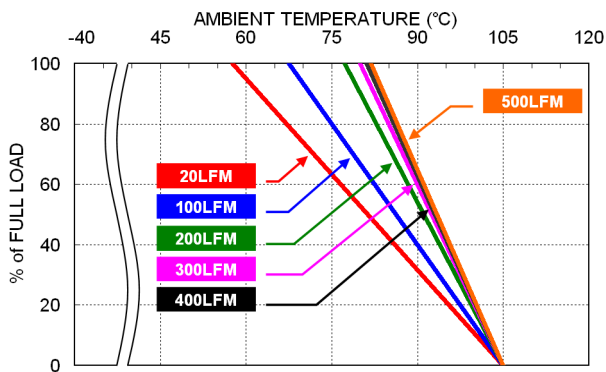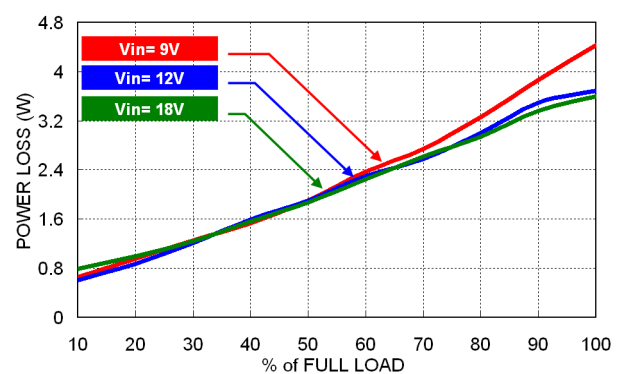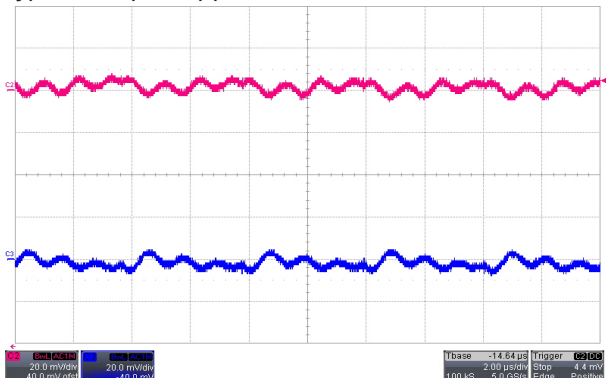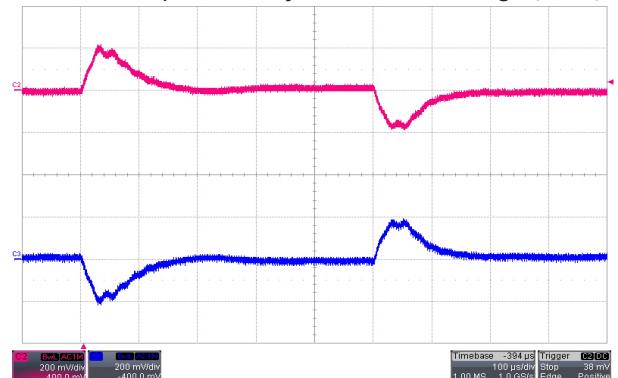
# TRACO POWER

## THM 30-2411

### Efficiency versus Output Load



### Efficiency versus Input Voltage



### Derating Output Load versus Ambient Temperature



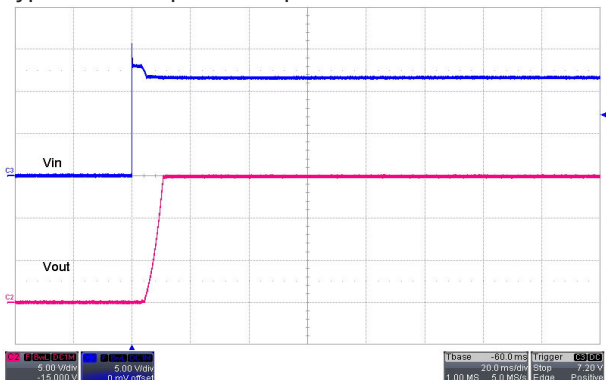### Power Dissipation versus Output Load
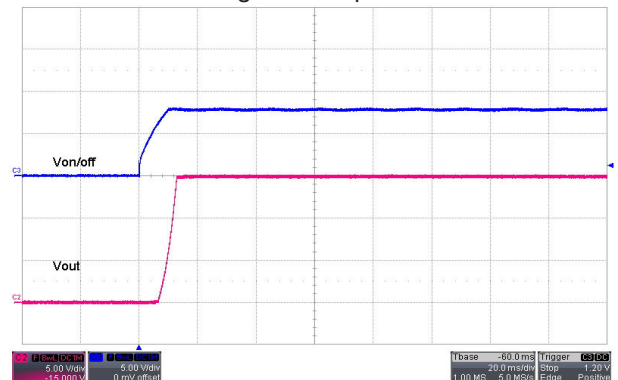


### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



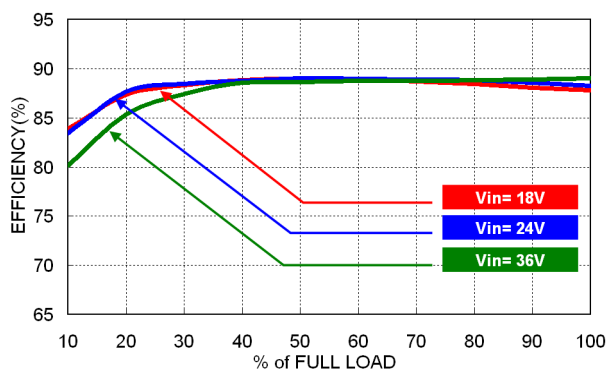### Typical Start-Up and Output Rise Characteristic
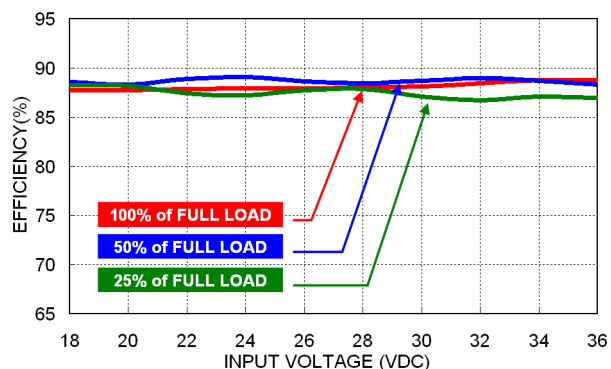


### Remote on/off Voltage Start-Up Characteristic



All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
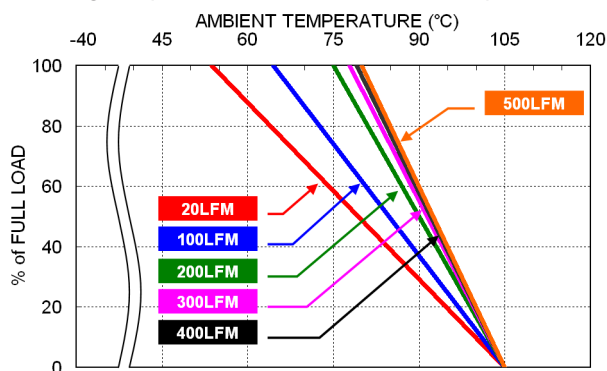
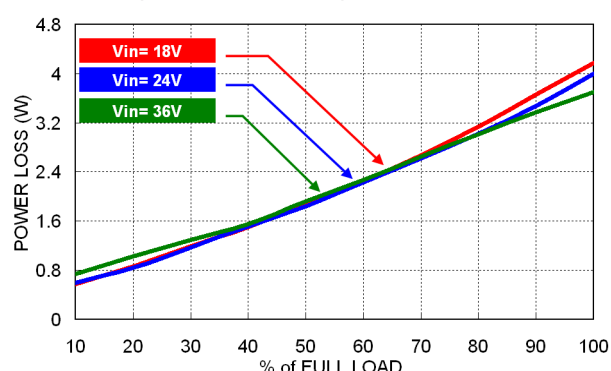## THM 30-2412

### Efficiency versus Output Load
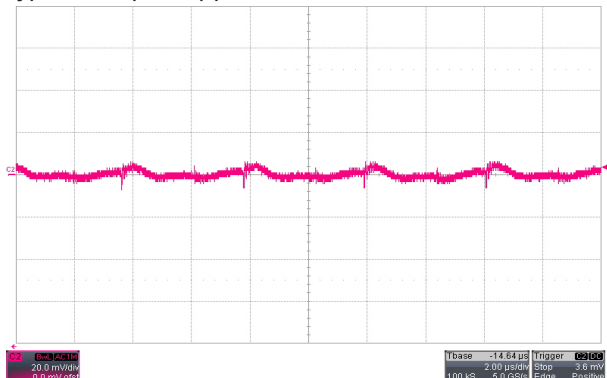


### Efficiency versus Input Voltage



### Derating Output Load versus Ambient Temperature
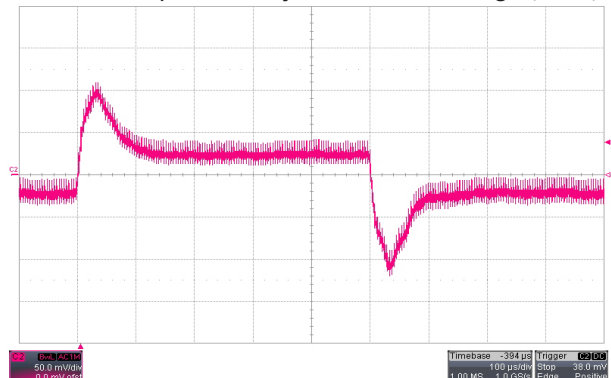


### Power Dissipation versus Output Load
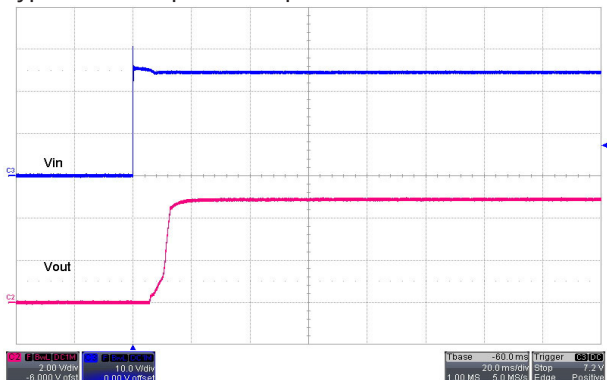


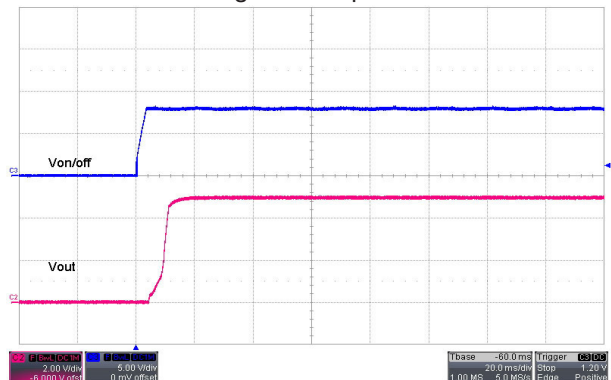### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



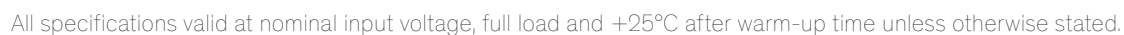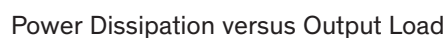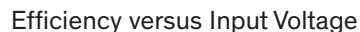### Typical Start-Up and Output Rise Characteristic



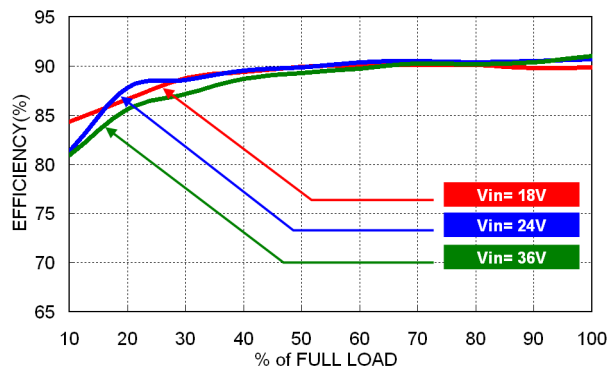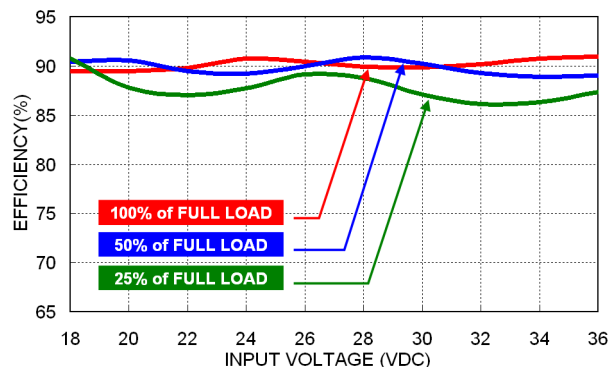### Remote on/off Voltage Start-Up Characteristic



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

**TRACO POWER**

## THM 30-2413

### Efficiency versus Output Load



Vin= 18V
Vin= 24V
Vin= 36V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



Vin= 18V
Vin= 24V
Vin= 36V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



Vin

Vout

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



Von/off

Vout

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

# TRACO POWER
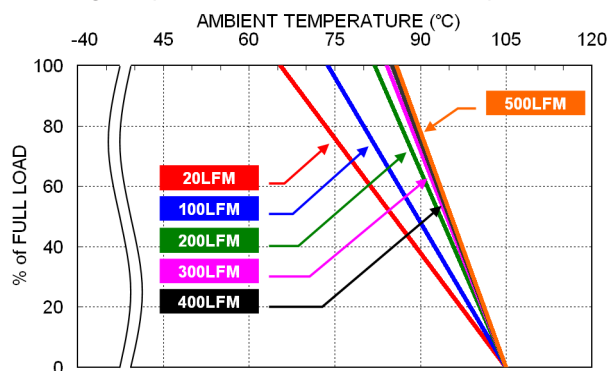
## THM 30-2415

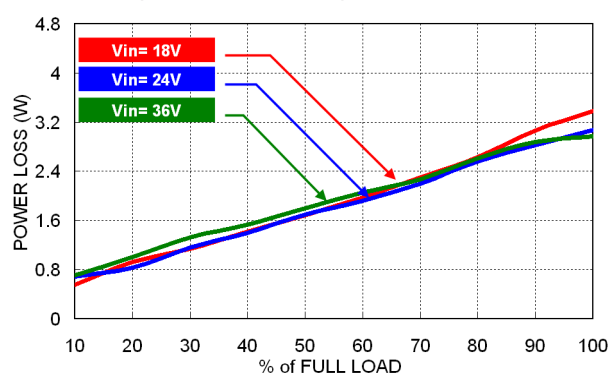### Efficiency versus Output Load



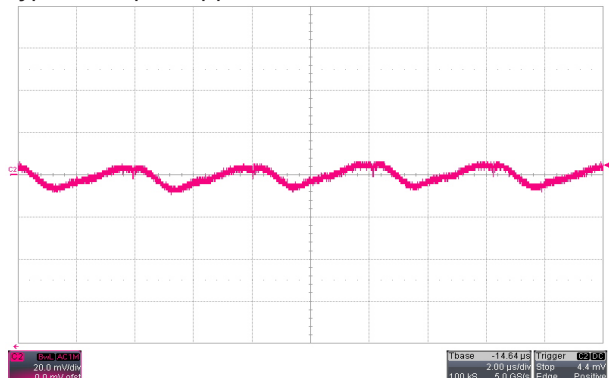### Efficiency versus Input Voltage



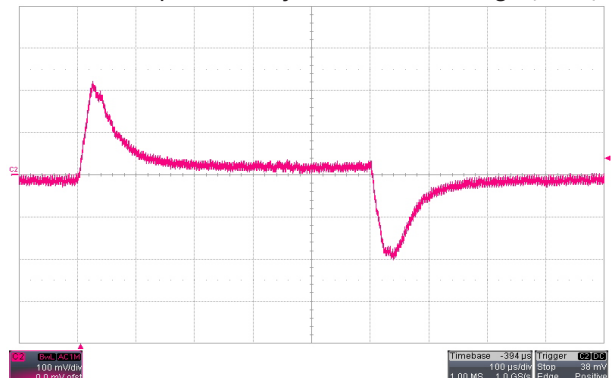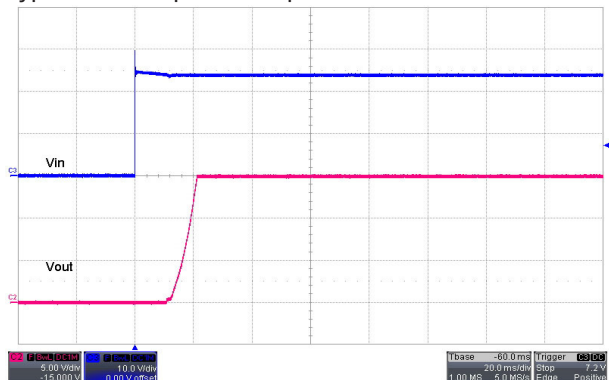### Derating Output Load versus Ambient Temperature



### Power Dissipation versus Output Load



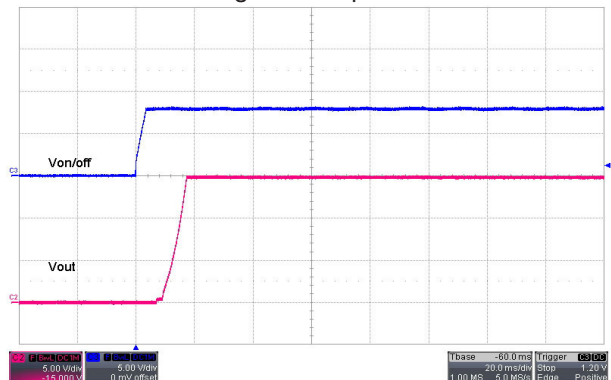### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



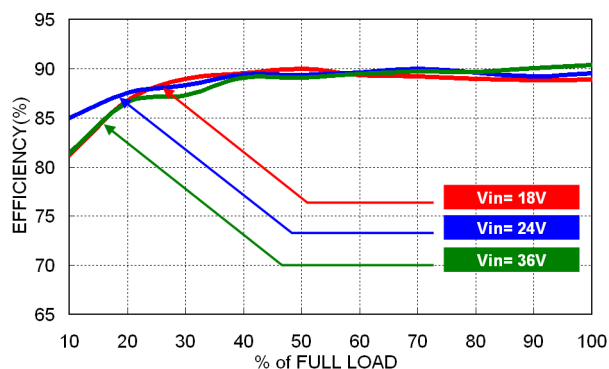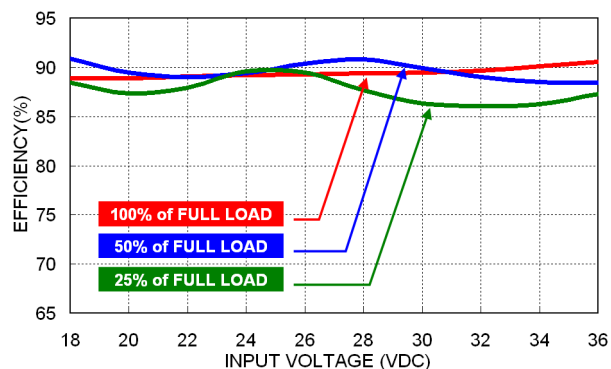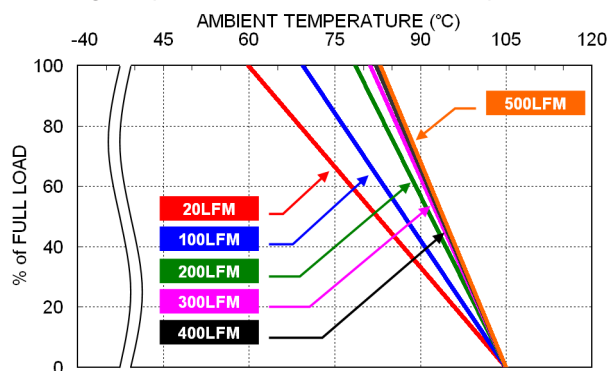### Remote on/off Voltage Start-Up Characteristic



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

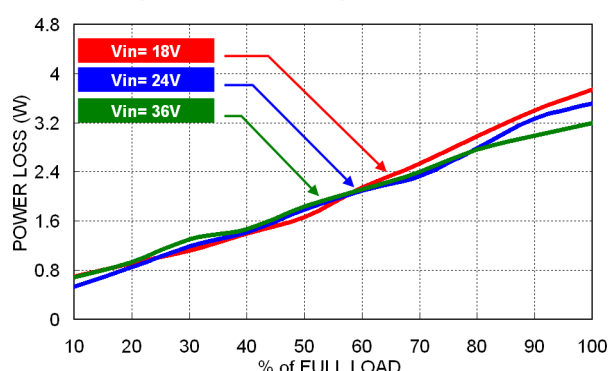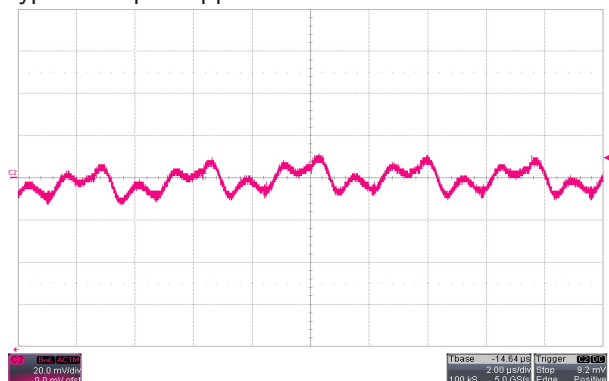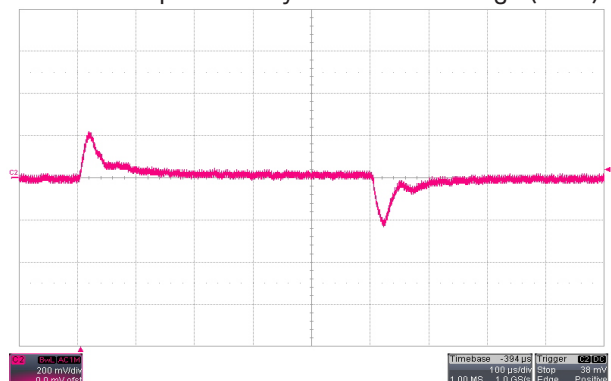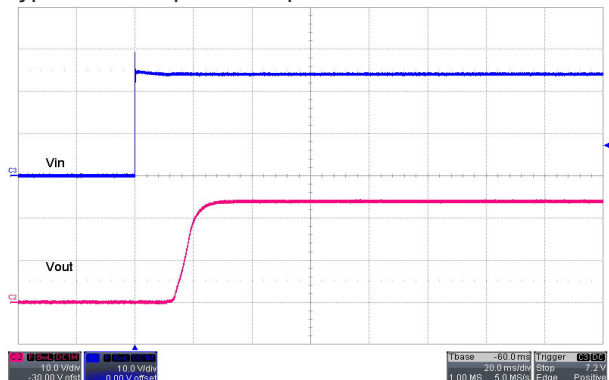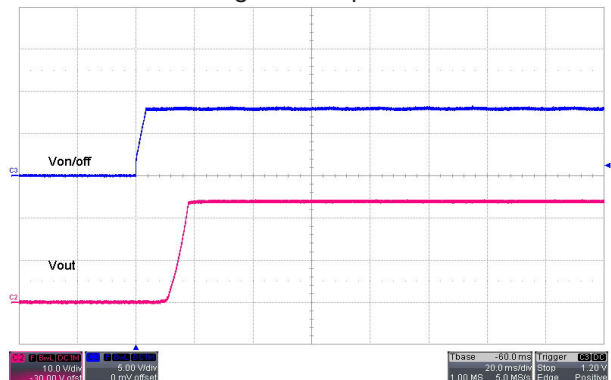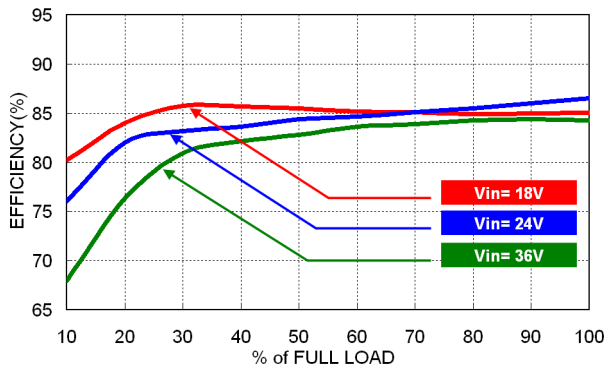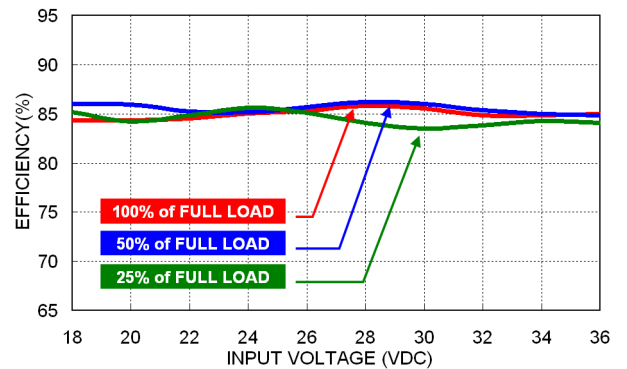## THM 30-2421

### Efficiency versus Output Load



### Efficiency versus Input Voltage



### Derating Output Load versus Ambient Temperature



### Power Dissipation versus Output Load



### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



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



All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
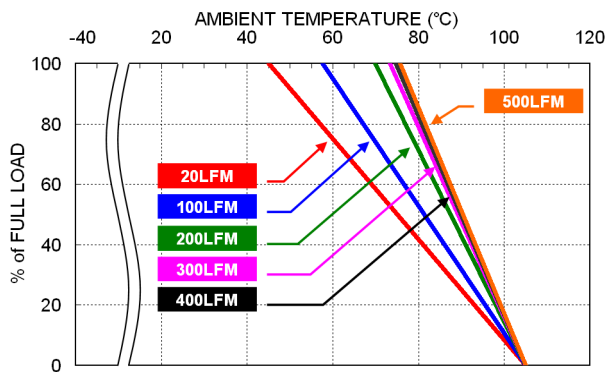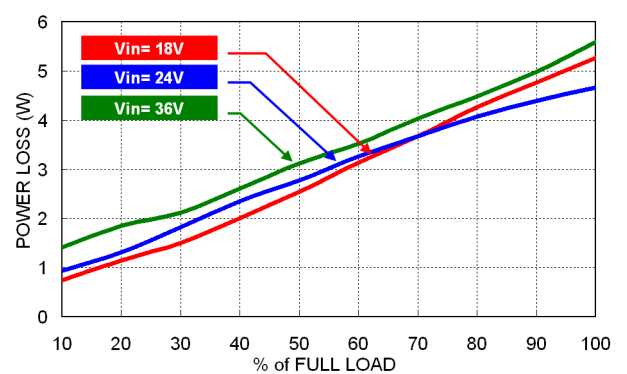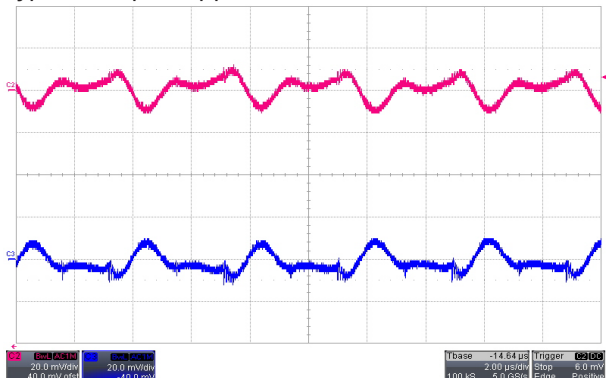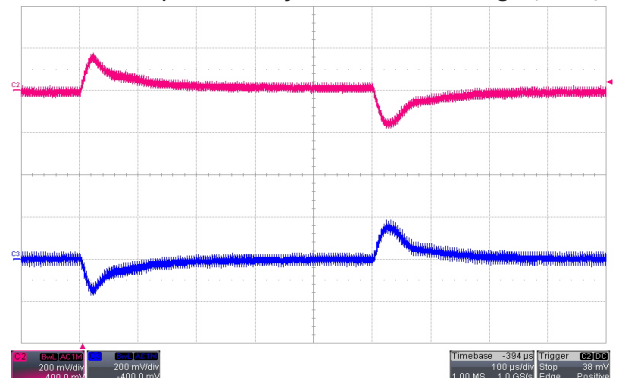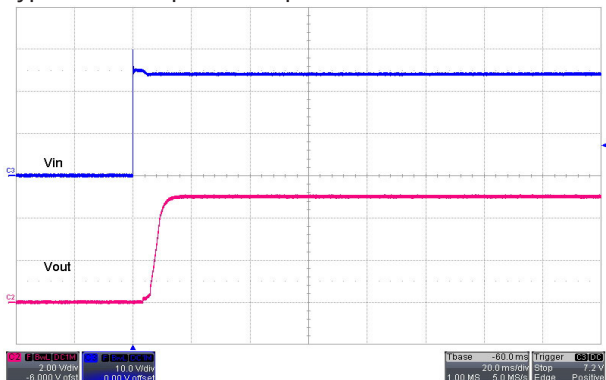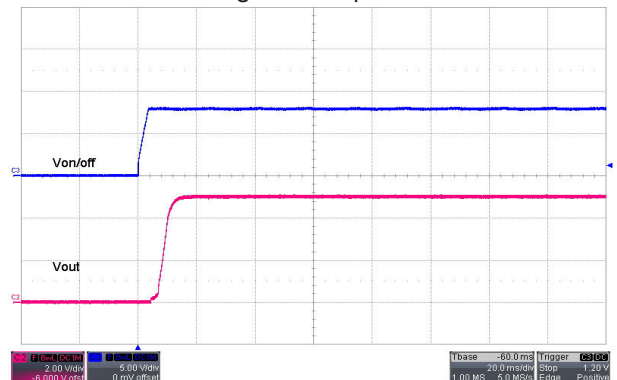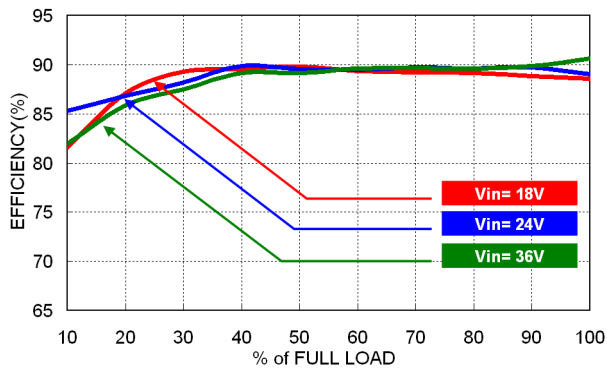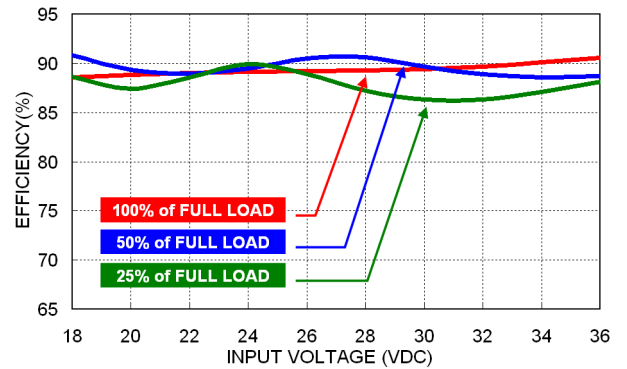
## THM 30-2422

### Efficiency versus Output Load



- Vin= 18V
- Vin= 24V
- Vin= 36V

### Efficiency versus Input Voltage



- 100% of FULL LOAD
- 50% of FULL LOAD
- 25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



- Vin= 18V
- Vin= 24V
- Vin= 36V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



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



All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
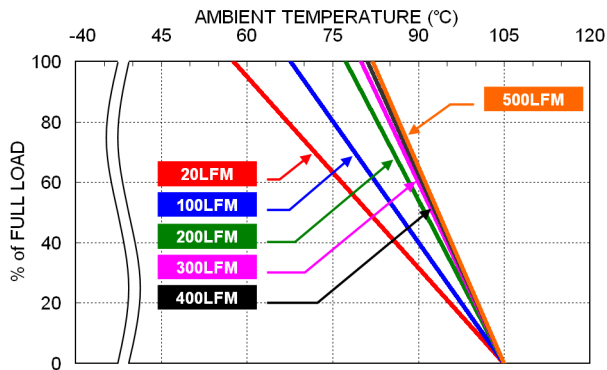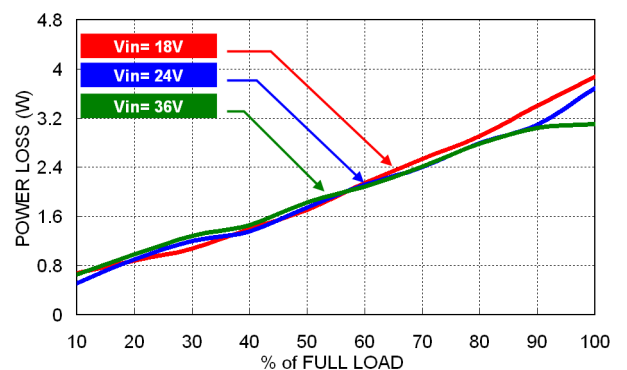
## THM 30-2423

### Efficiency versus Output Load

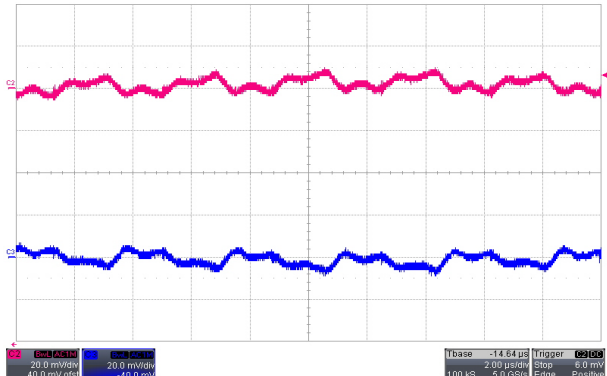

### Efficiency versus Input Voltage



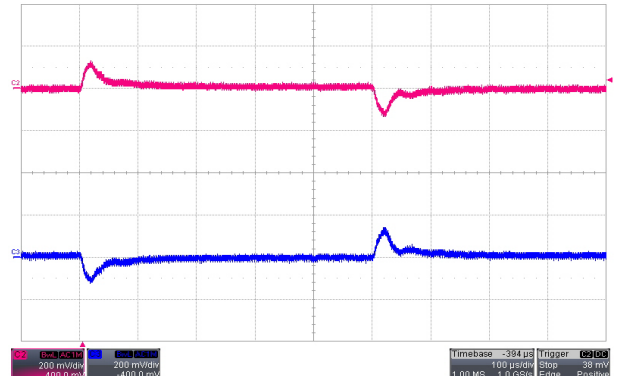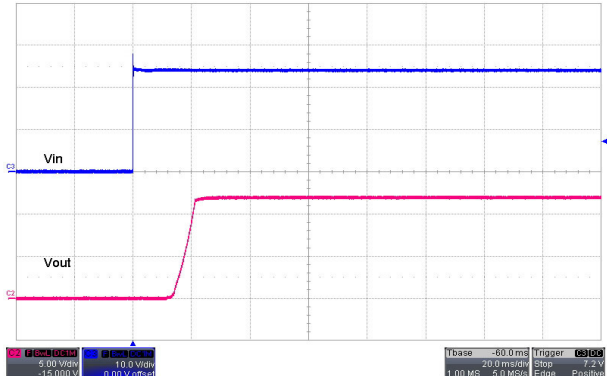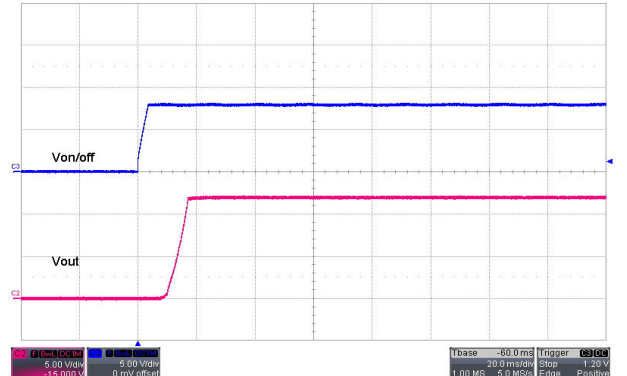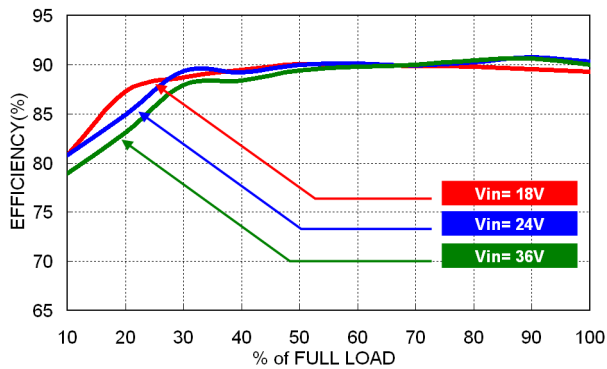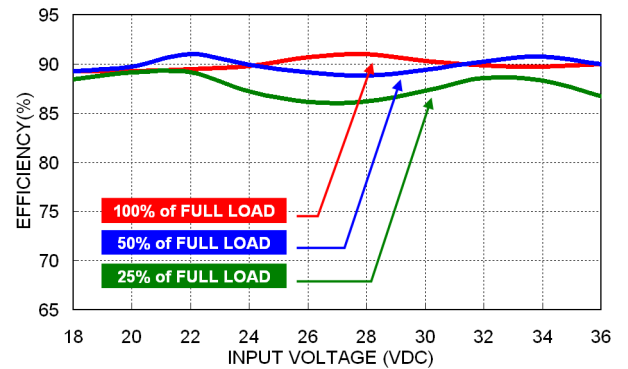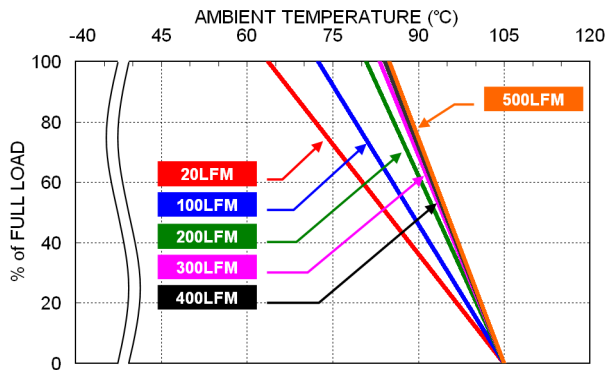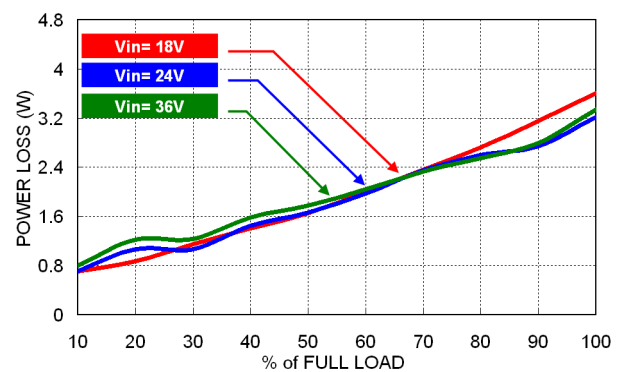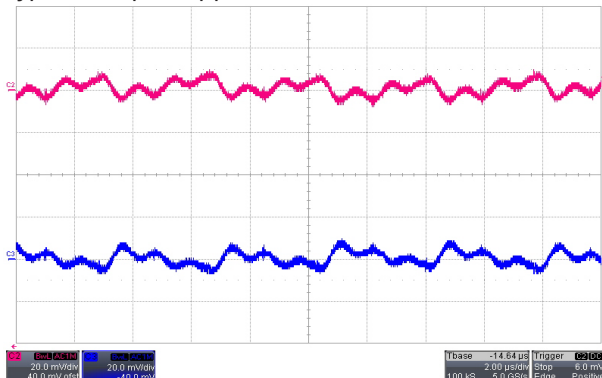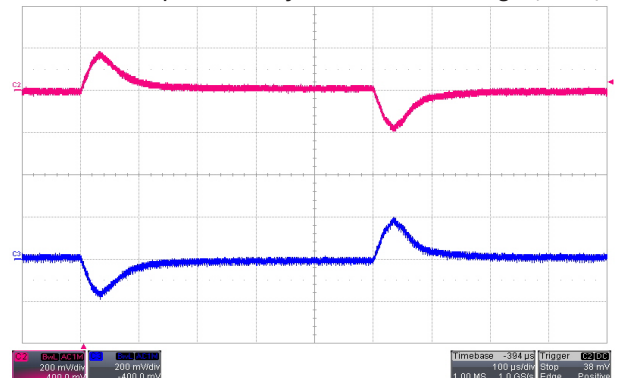### Derating Output Load versus Ambient Temperature



### Power Dissipation versus Output Load
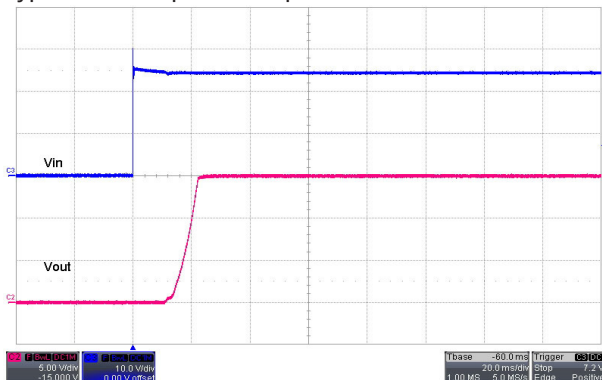


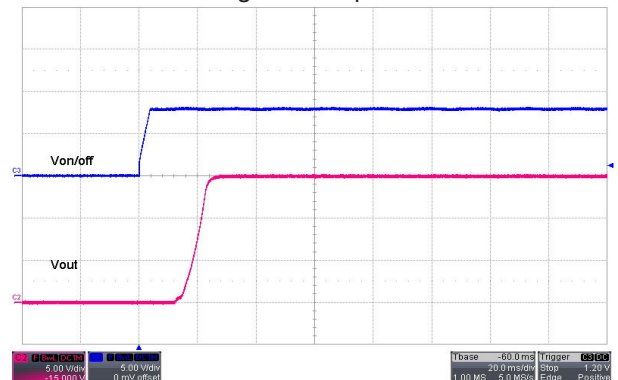### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



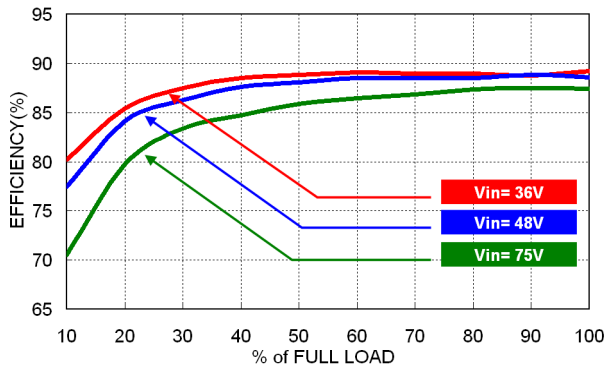### Typical Start-Up and Output Rise Characteristic



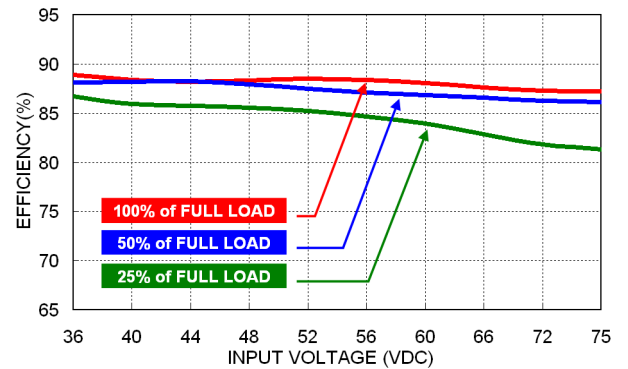### Remote on/off Voltage Start-Up Characteristic



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

# TRACO POWER

## THM 30-4811

### Efficiency versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



Vin

Vout

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



Von/off

Vout

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
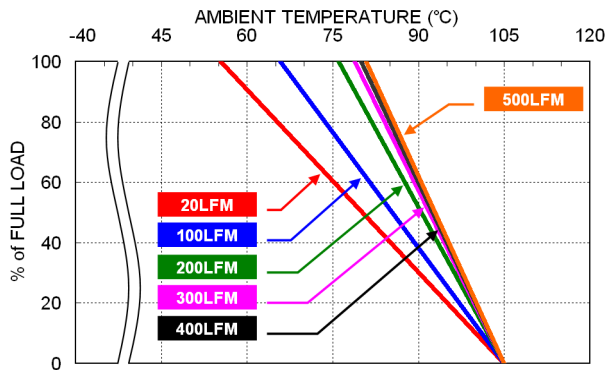
# TRACO POWER
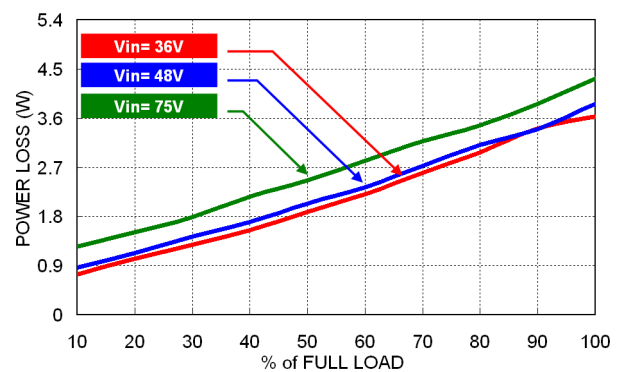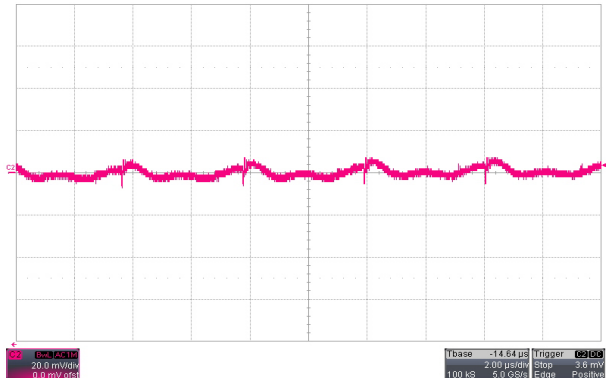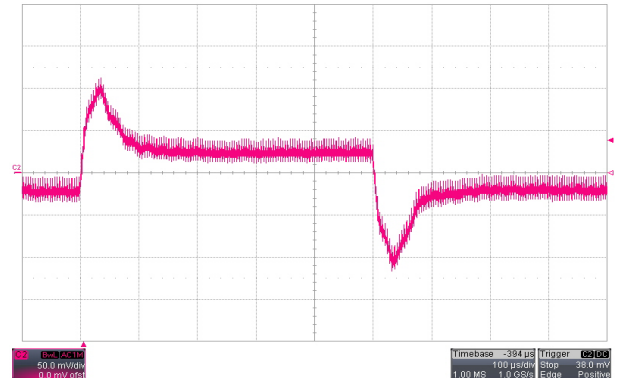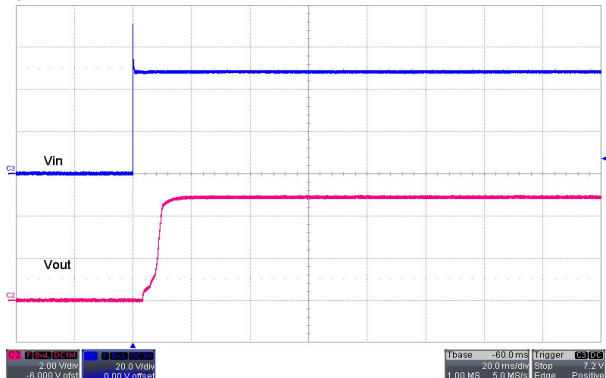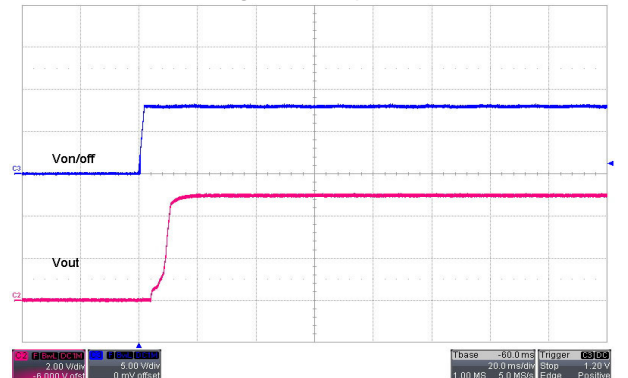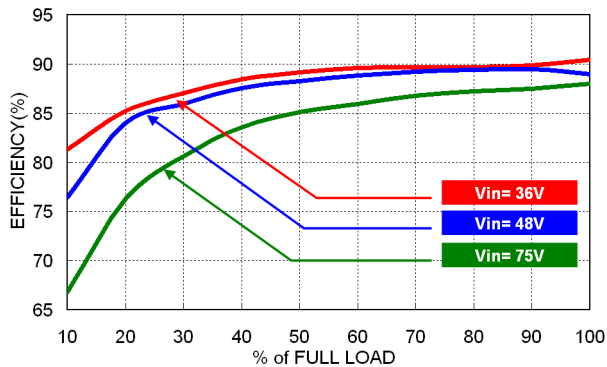
## THM 30-4812

### Efficiency versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



Vin

Vout

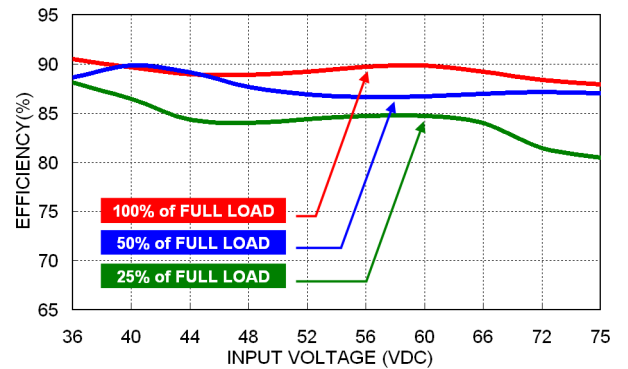### Remote on/off Voltage Start-Up Characteristic



Von/off

Vout
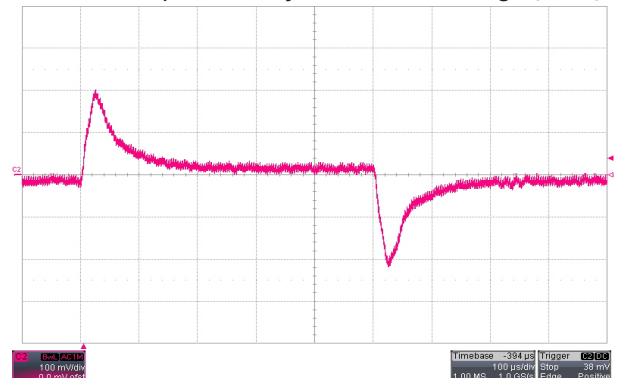
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.
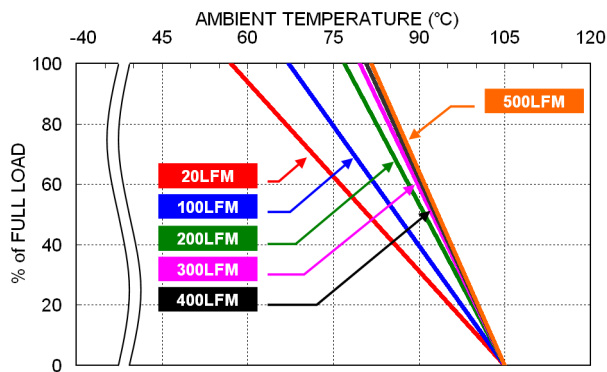
## THM 30-4813
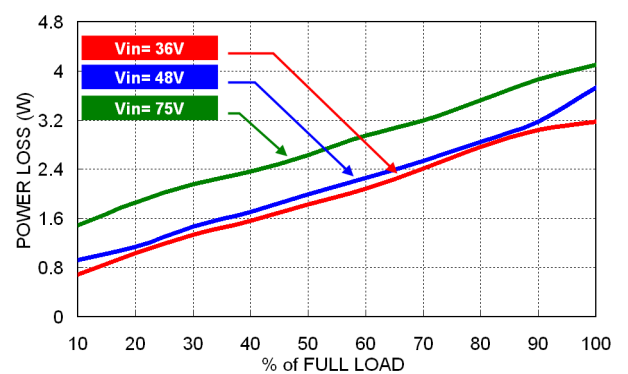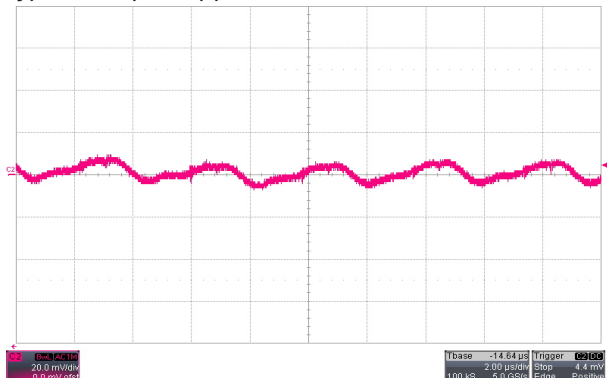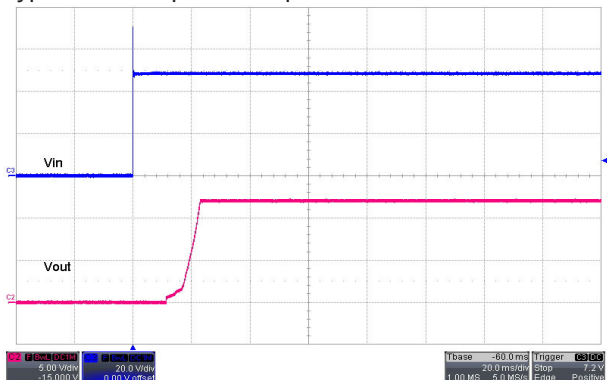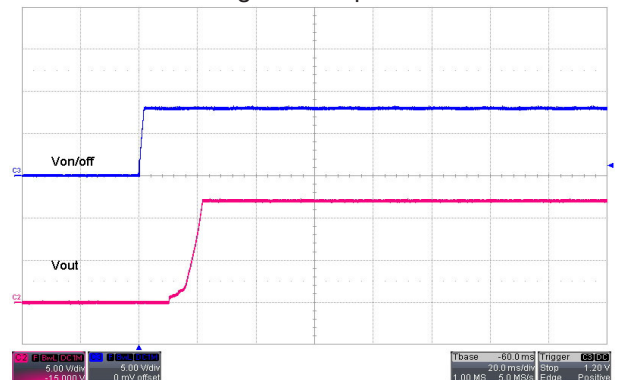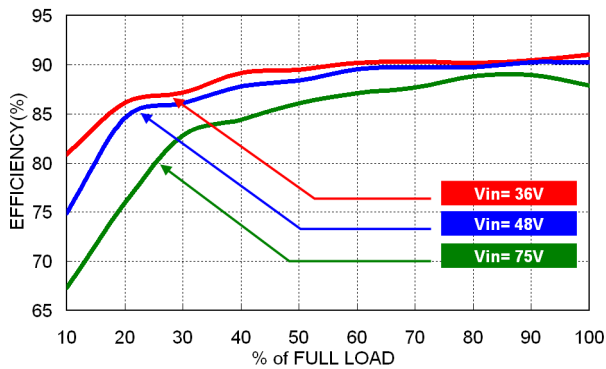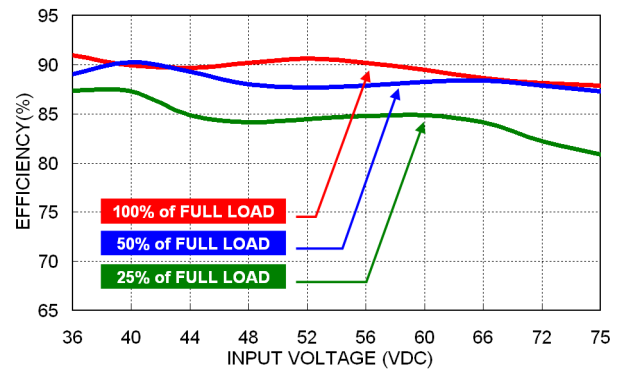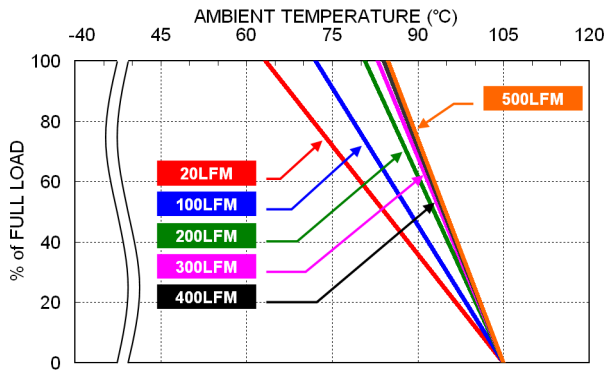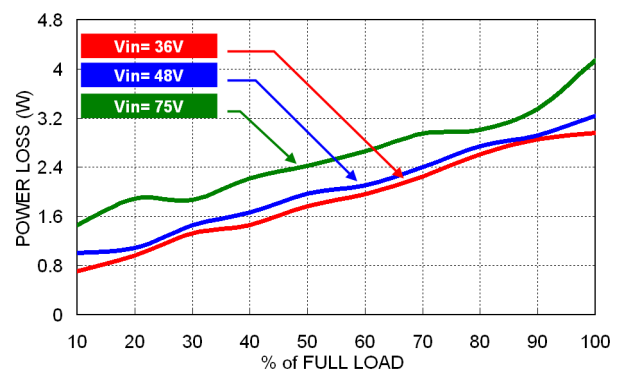
### Efficiency versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load
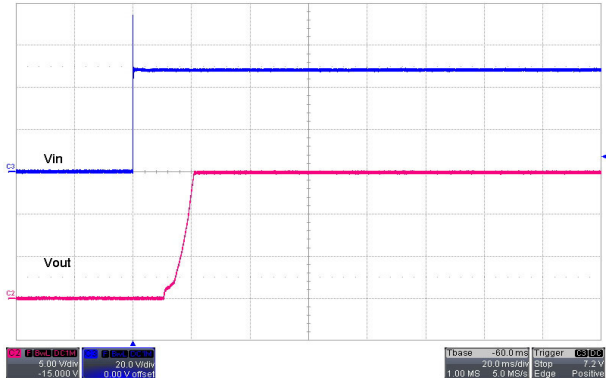


Vin= 36V
Vin= 48V
Vin= 75V

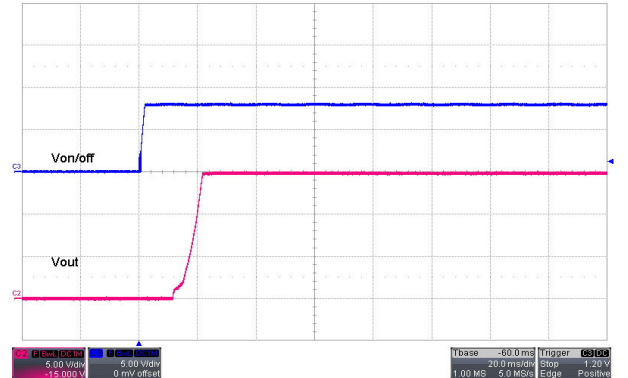### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic
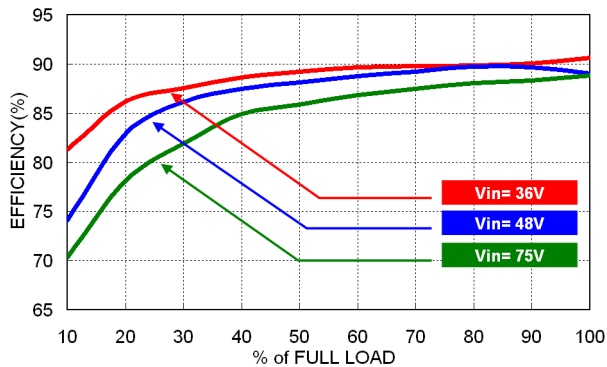


Vin

Vout

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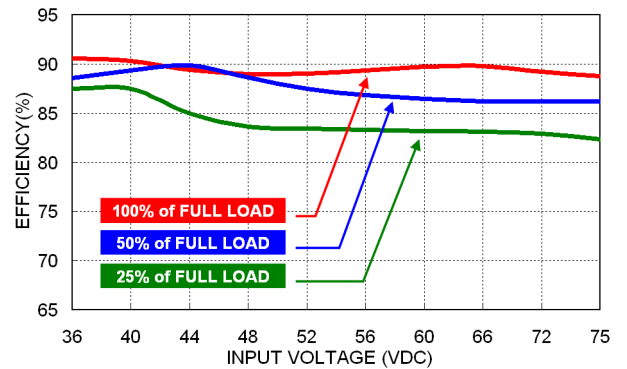


Von/off

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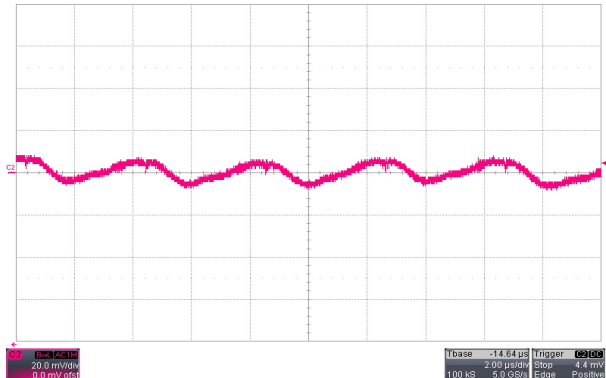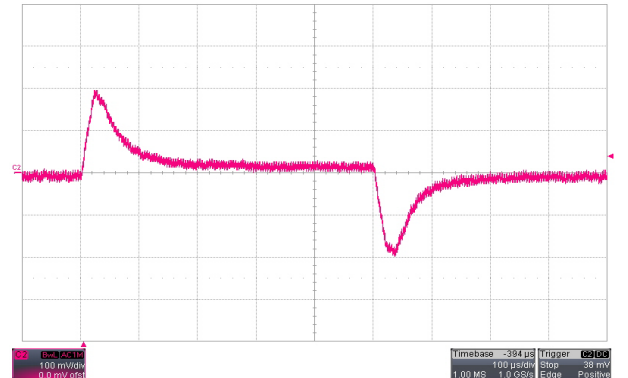
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

## THM 30-4815

### Efficiency versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



Vin

Vout

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



Von/off

Vout

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

**III TRACO POWER**
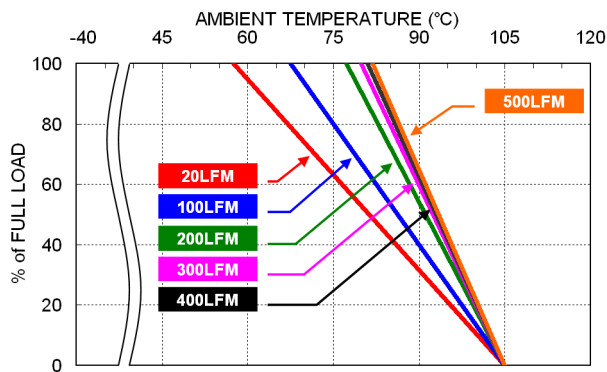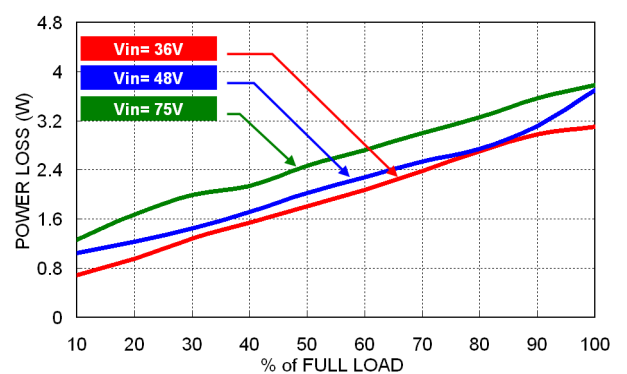
## THM 30-4821

### Efficiency versus Output Load



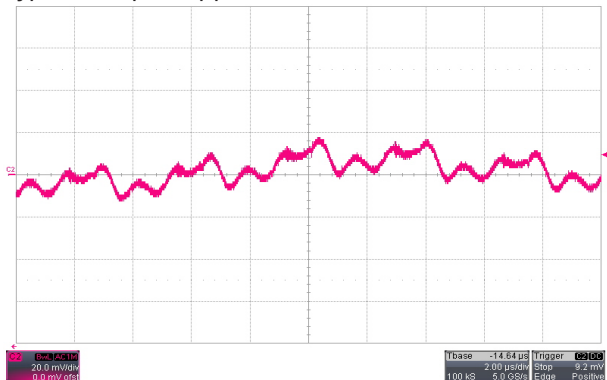### Efficiency versus Input Voltage



### Derating Output Load versus Ambient Temperature
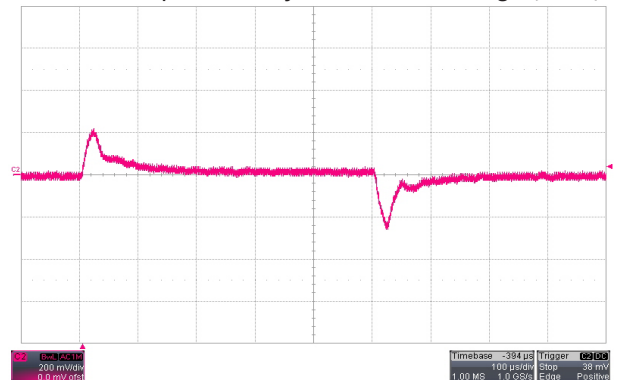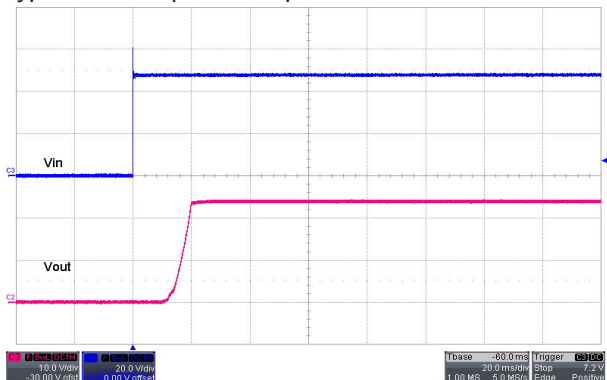


### Power Dissipation versus Output Load



### Typical Output Ripple and Noise
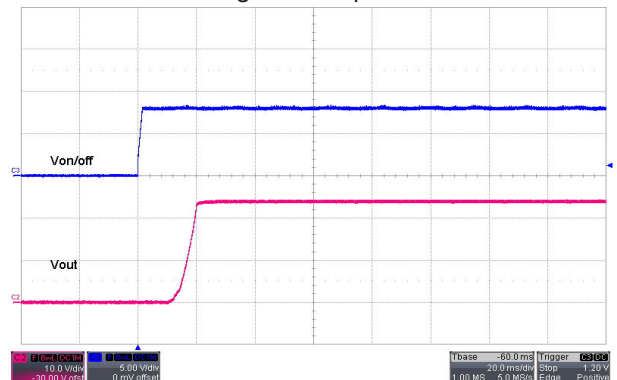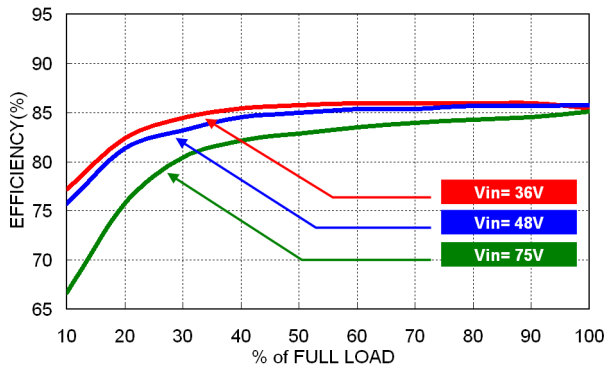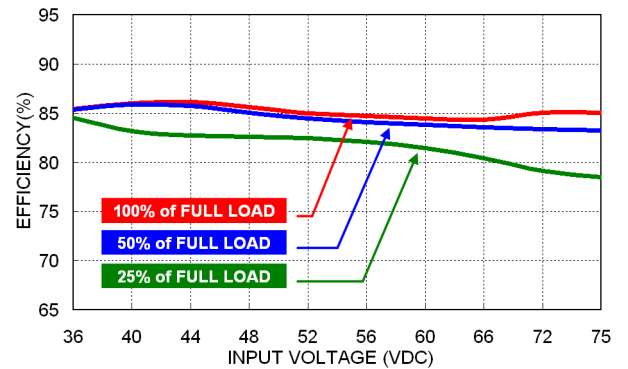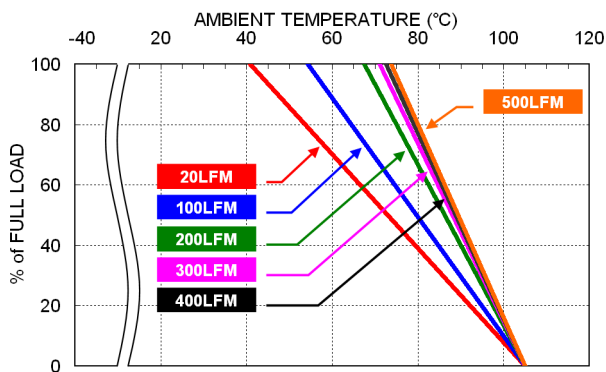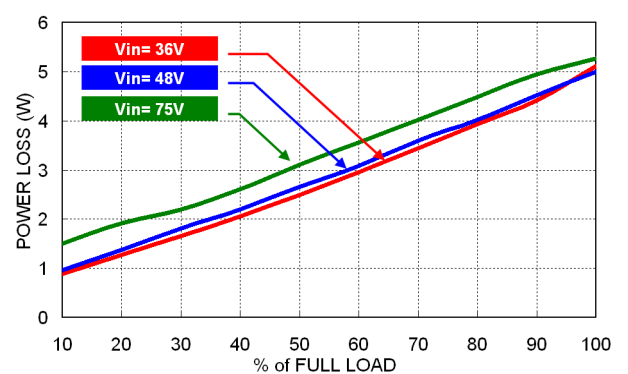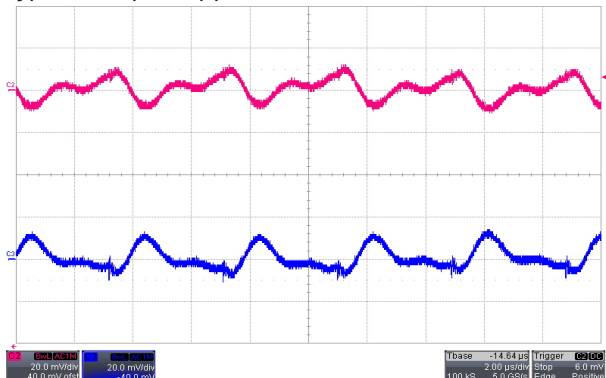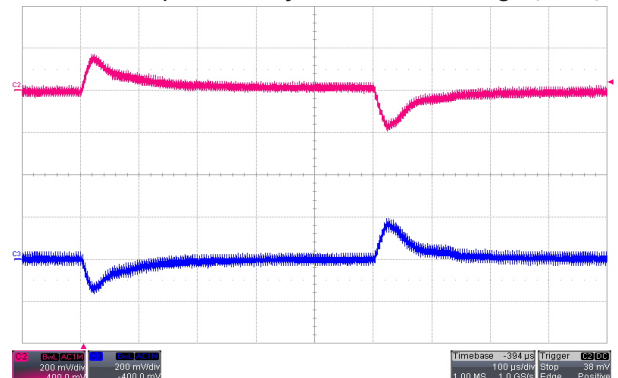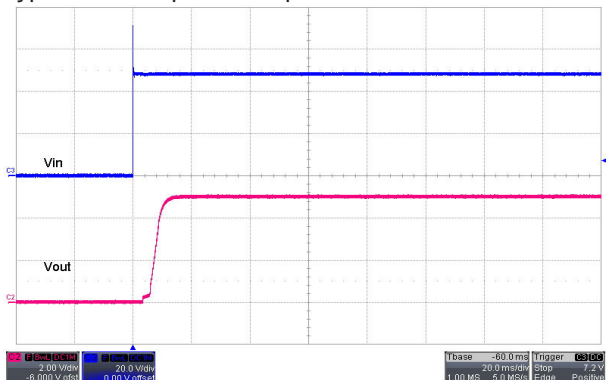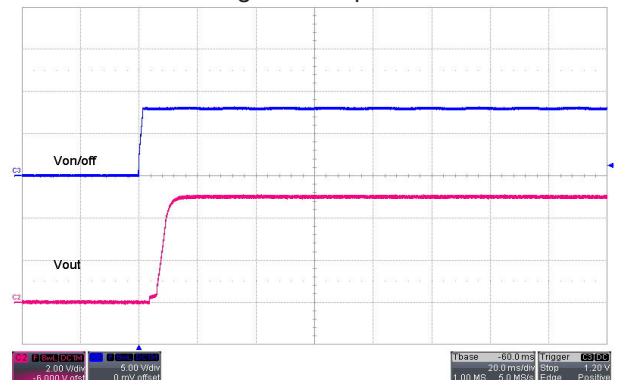


### Transient Response to Dynamic Load Change (25%)



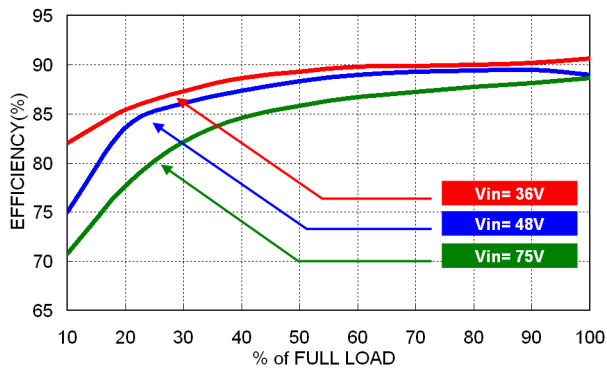### Typical Start-Up and Output Rise Characteristic
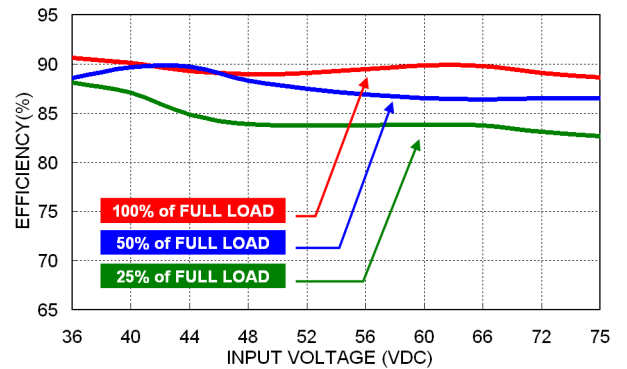


### Remote on/off Voltage Start-Up Characteristic



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

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## THM 30-4822

### Efficiency versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Efficiency versus Input Voltage



100% of FULL LOAD
50% of FULL LOAD
25% of FULL LOAD

### Derating Output Load versus Ambient Temperature



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

### Power Dissipation versus Output Load



Vin= 36V
Vin= 48V
Vin= 75V

### Typical Output Ripple and Noise



### Transient Response to Dynamic Load Change (25%)



### Typical Start-Up and Output Rise Characteristic



Vin

Vout

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



Von/off

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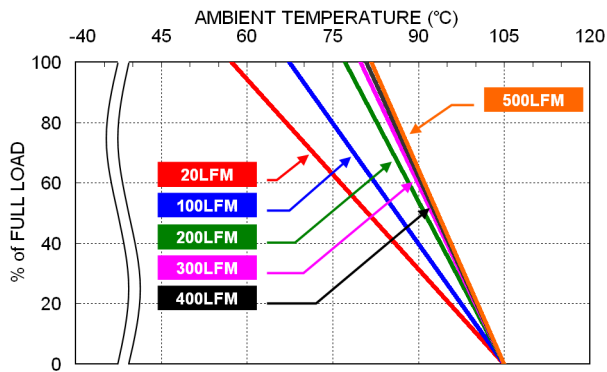
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

### THM 30-4823
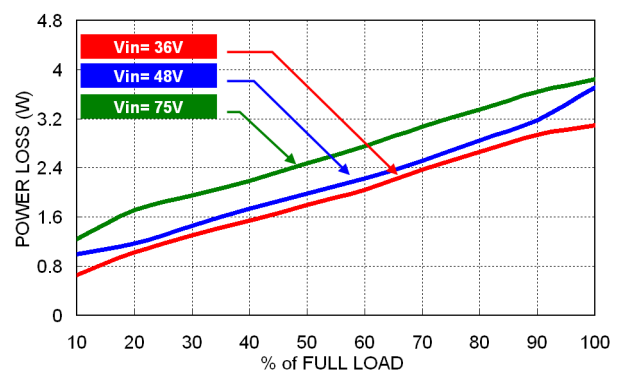
#### Efficiency versus Output Load
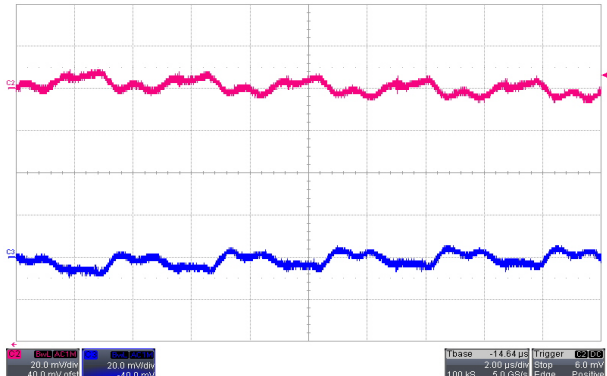


#### Efficiency versus Input Voltage



#### Derating Output Load versus Ambient Temperature
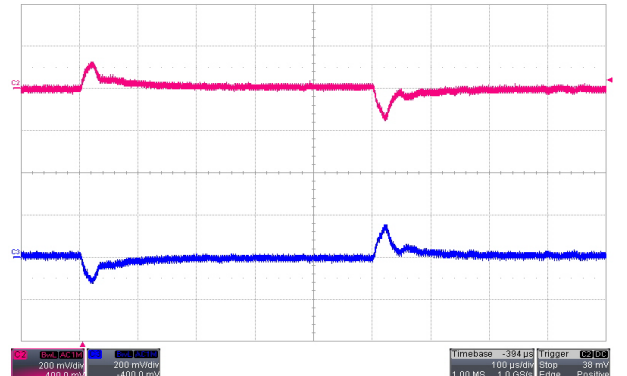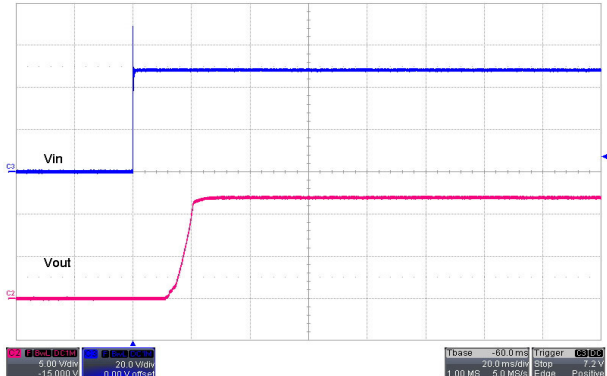


#### Power Dissipation versus Output Load



#### Typical Output Ripple and Noise



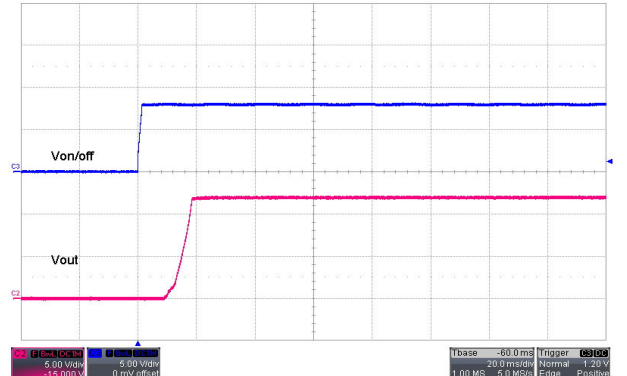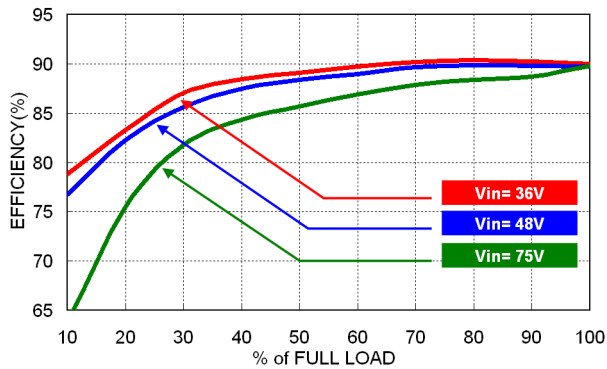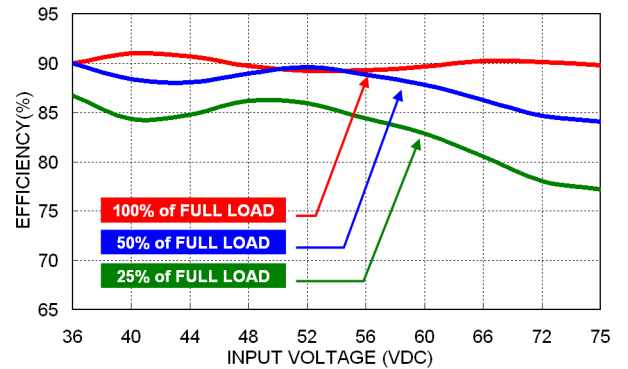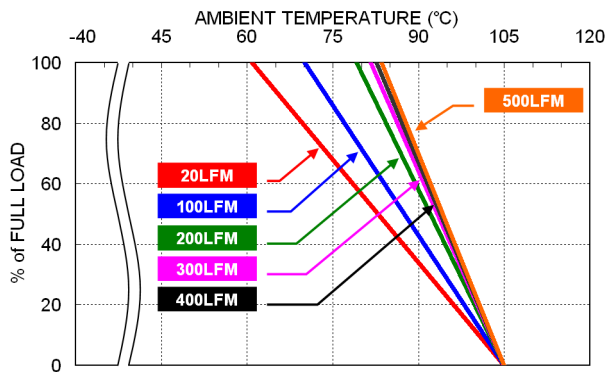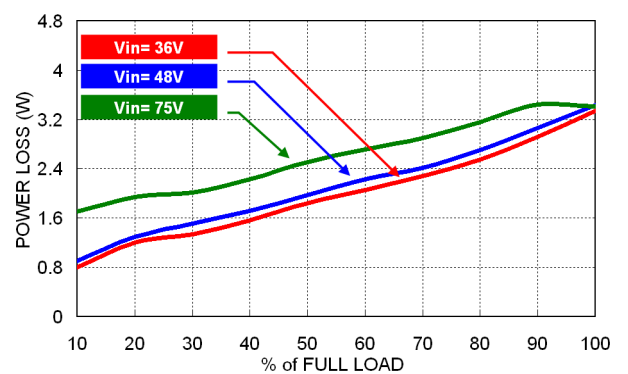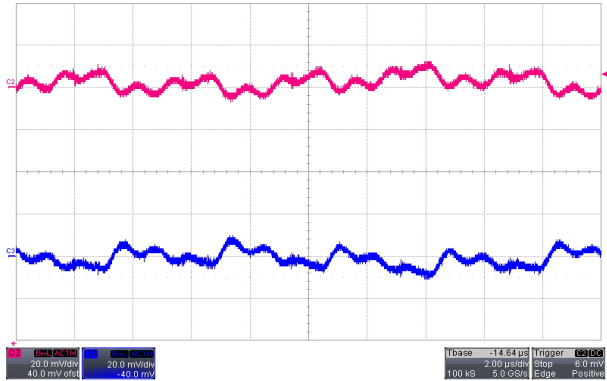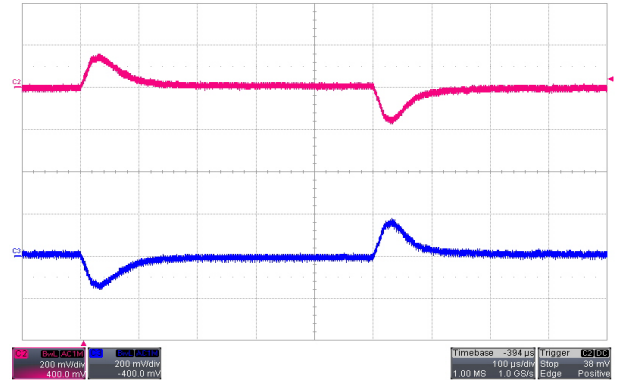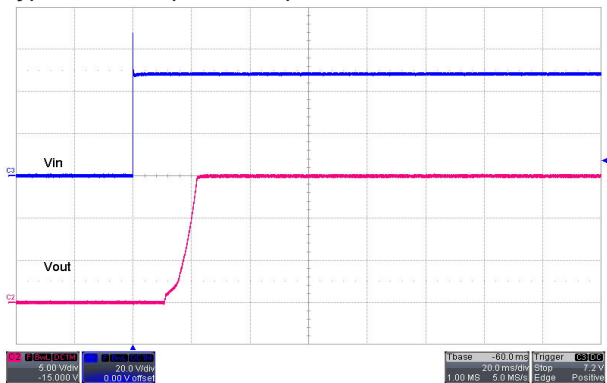#### Transient Response to Dynamic Load Change (25%)



#### Typical Start-Up and Output Rise Characteristic



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