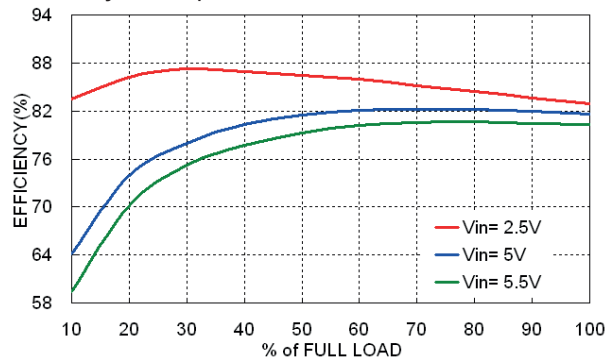


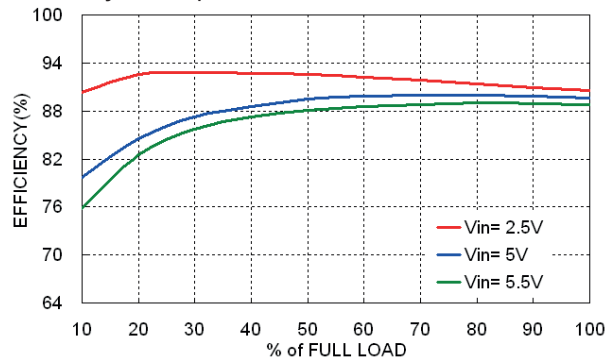
### Characteristic Curves

#### TSR 3-0533(A)

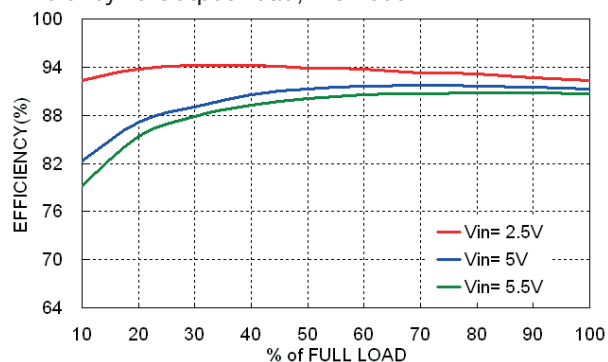
Efficiency vs Output Load, 0.6 Vout



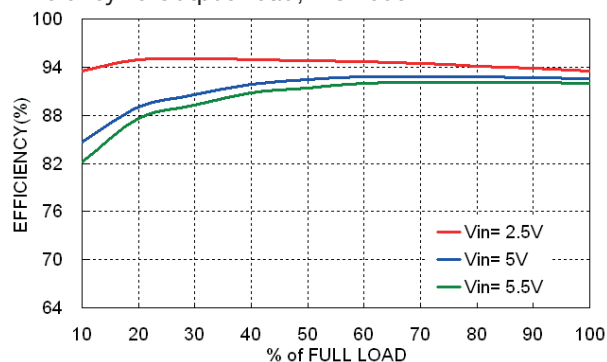
Efficiency vs Output Load, 1.2 Vout



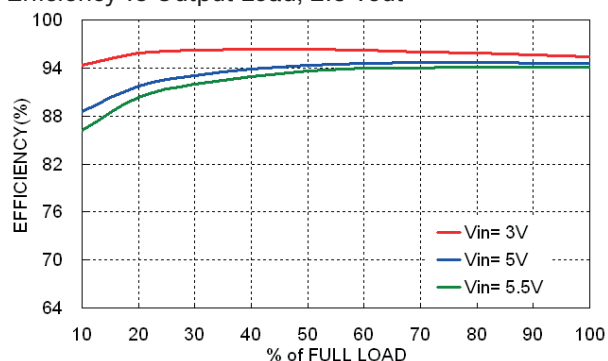
Efficiency vs Output Load, 1.5 Vout



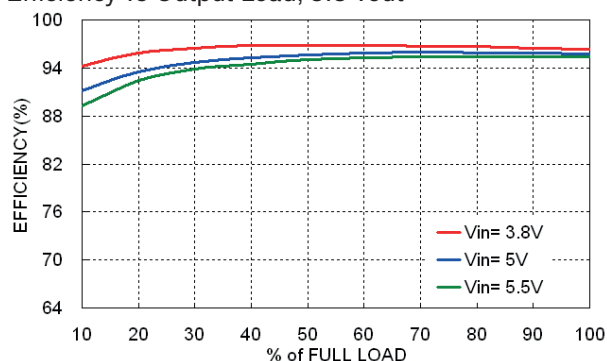
Efficiency vs Output Load, 1.8 Vout

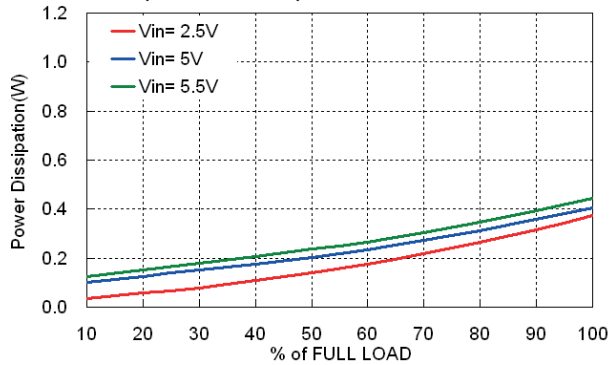
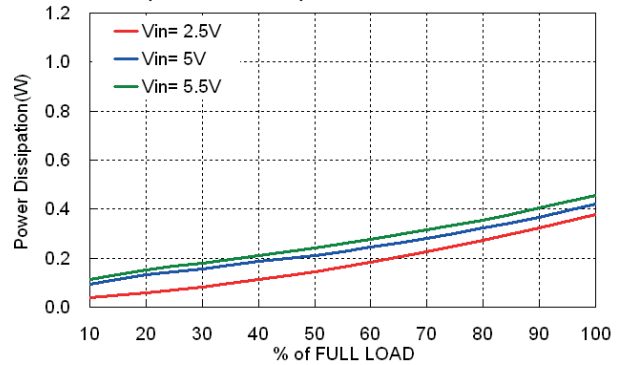
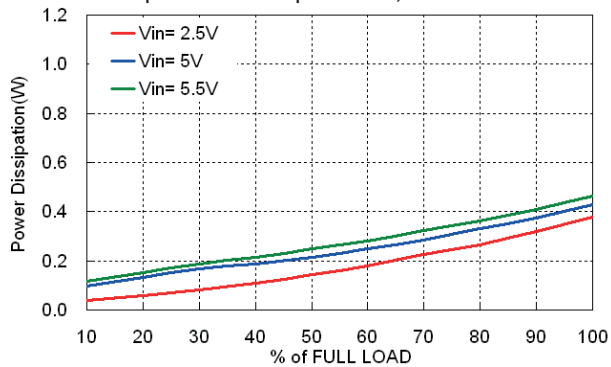
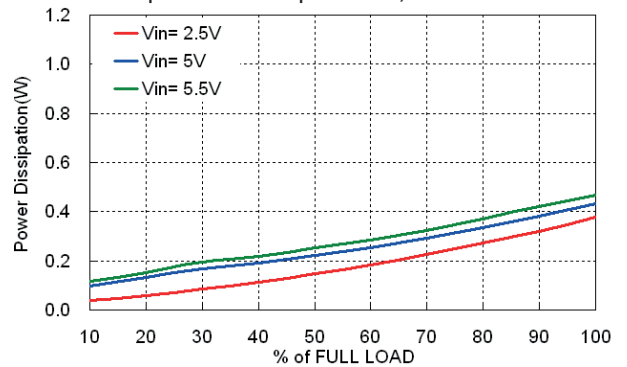
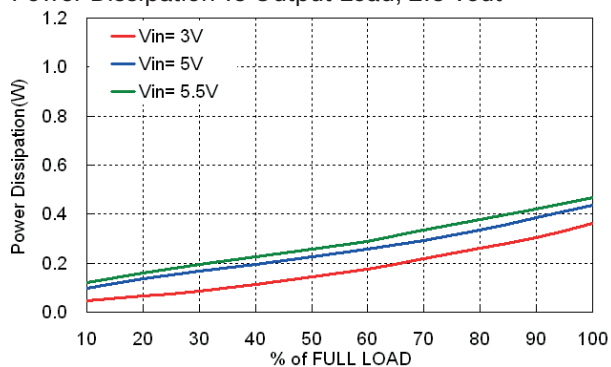
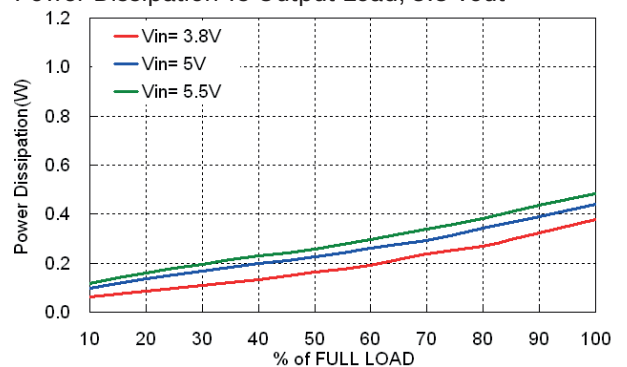


Efficiency vs Output Load, 2.5 Vout



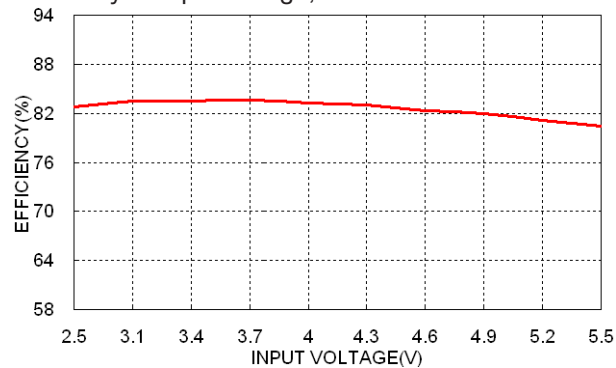
Efficiency vs Output Load, 3.3 Vout



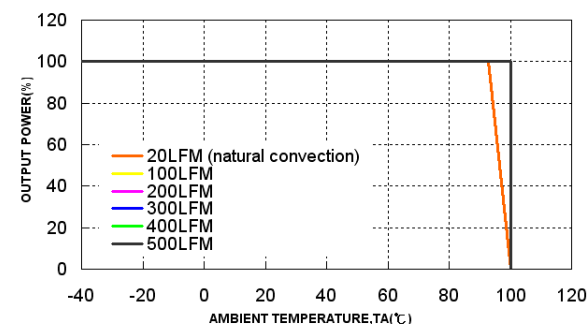
**TSR 3-0533(A)**
**Power Dissipation vs Output Load, 0.6 Vout**

**Power Dissipation vs Output Load, 1.2 Vout**

**Power Dissipation vs Output Load, 1.5 Vout**

**Power Dissipation vs Output Load, 1.8 Vout**

**Power Dissipation vs Output Load, 2.5 Vout**

**Power Dissipation vs Output Load, 3.3 Vout**


### TSR 3-0533(A)

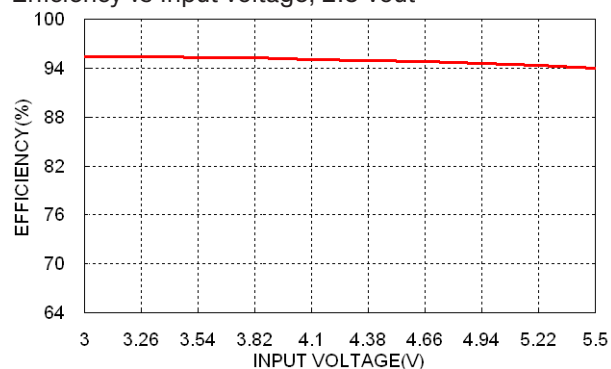
Efficiency vs Input Voltage, 0.6 Vout



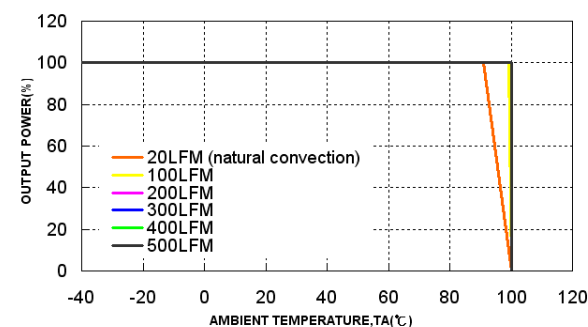
Derating Output Load vs Ambient Temperature  
0.6 Vout



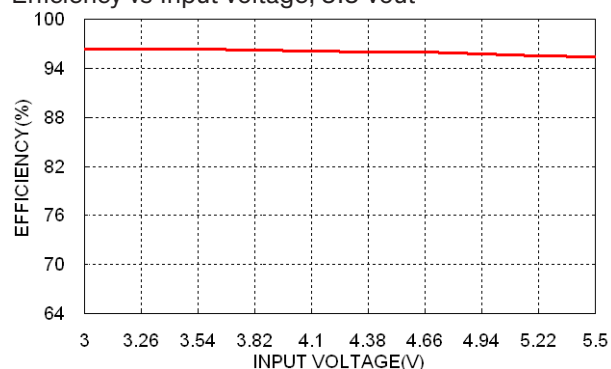
Efficiency vs Input Voltage, 2.5 Vout



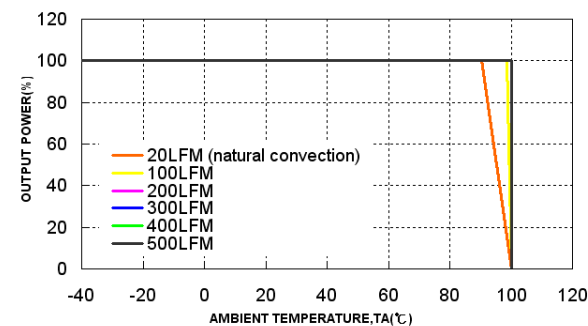
Derating Output Load vs Ambient Temperature  
2.5 Vout



Efficiency vs Input Voltage, 3.3 Vout

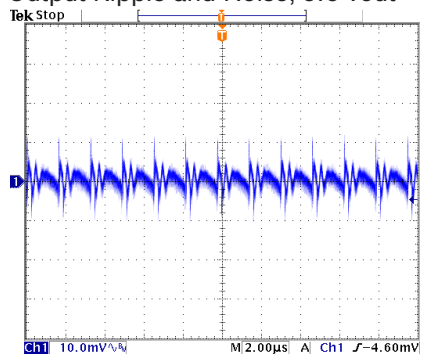
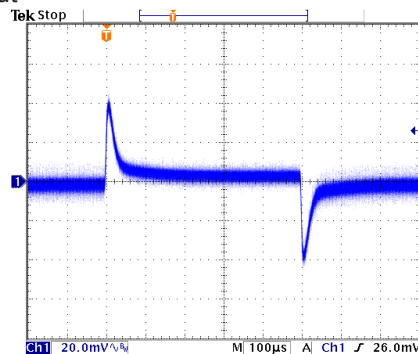


Derating Output Load vs Ambient Temperature  
3.3 Vout

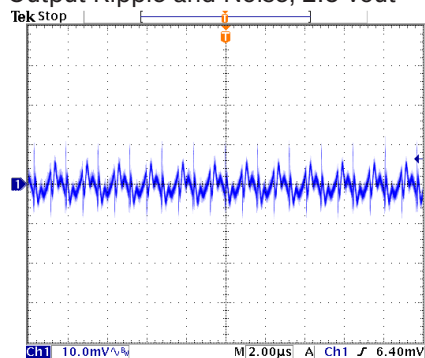
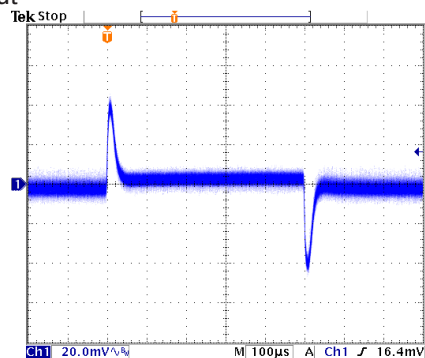


**TSR 3-0533(A)**

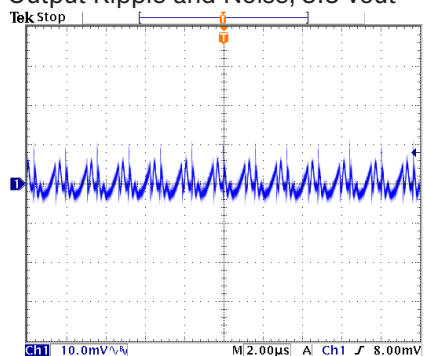
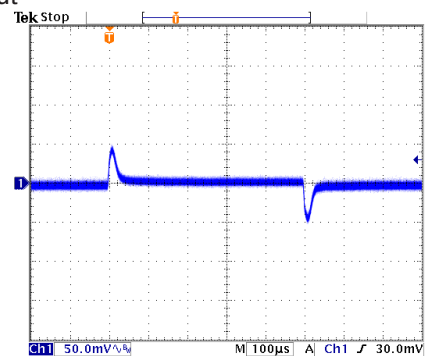
Typical Output Ripple and Noise, 0.6 Vout


 Transient Response to Dynamic Load Change (50%)  
0.6 Vout


Typical Output Ripple and Noise, 2.5 Vout

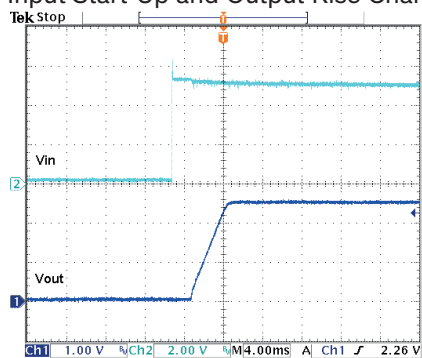

 Transient Response to Dynamic Load Change (50%)  
2.5 Vout


Typical Output Ripple and Noise, 3.3 Vout

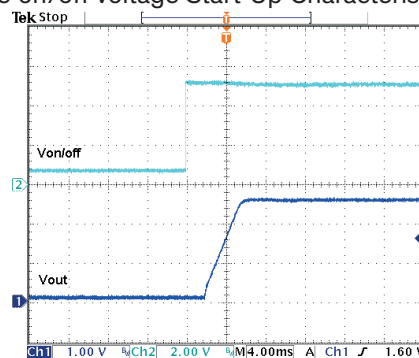

 Transient Response to Dynamic Load Change (50%)  
3.3 Vout


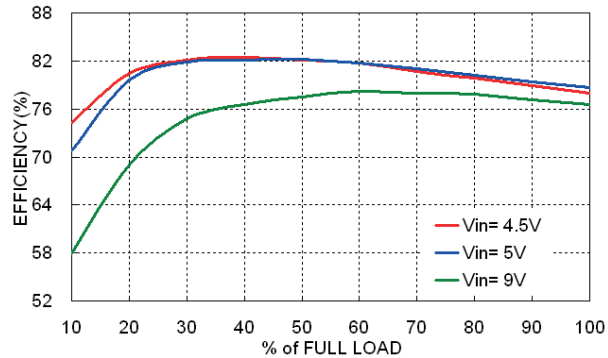
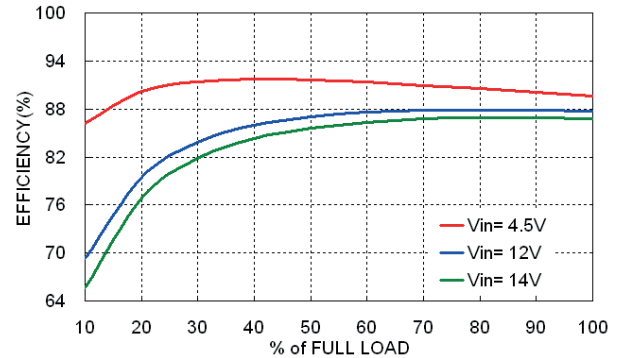
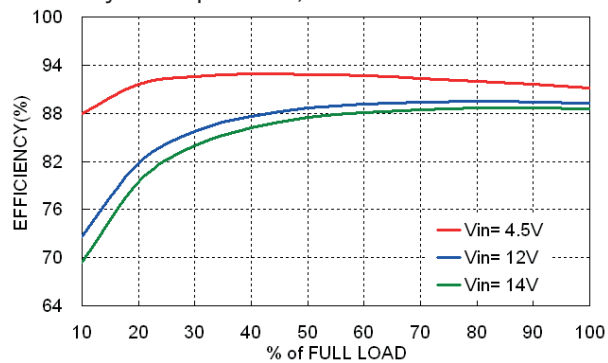
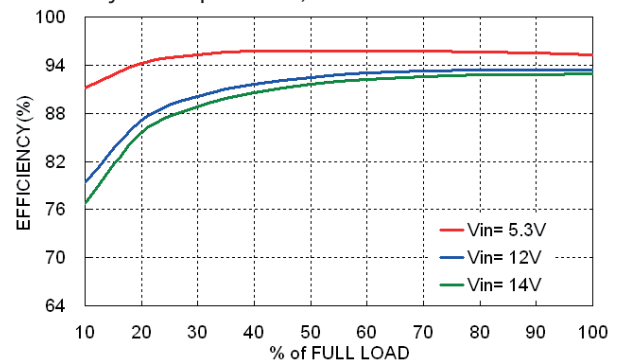
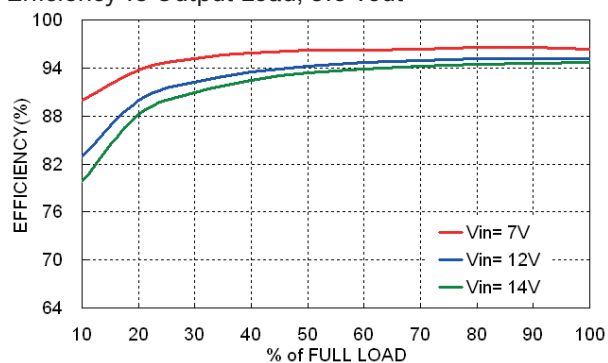
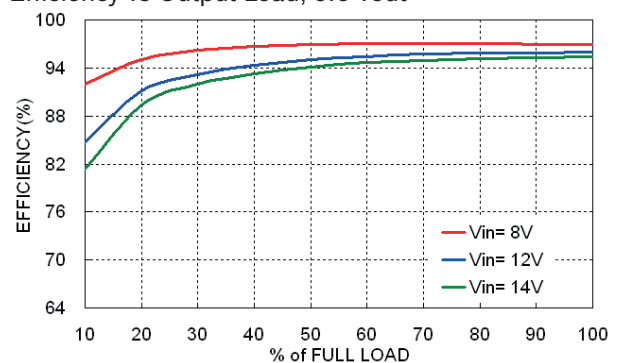
**TSR 3-0533(A)**

Typical Input Start-Up and Output Rise Characteristic



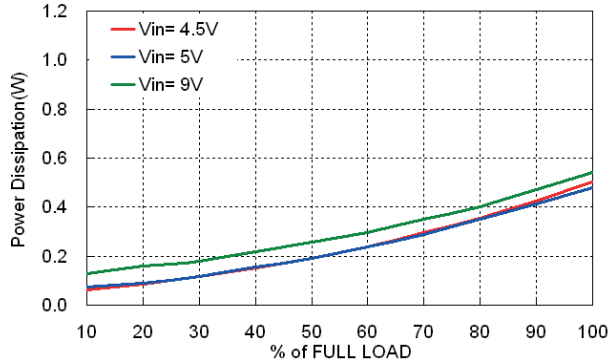
Remote on/off Voltage Start-Up Characteristic



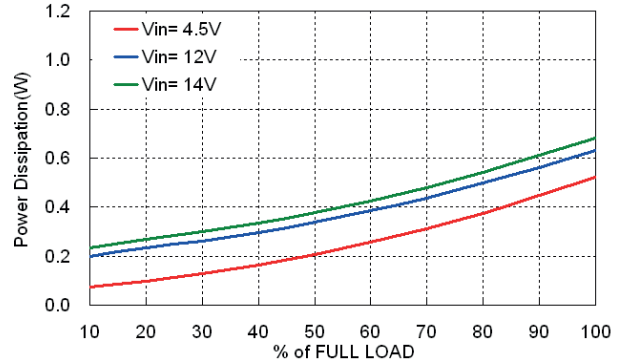
**TSR 3-1250(A)**
**Efficiency vs Output Load, 0.6 Vout**

**Efficiency vs Output Load, 1.5 Vout**

**Efficiency vs Output Load, 1.8 Vout**

**Efficiency vs Output Load, 3.3 Vout**

**Efficiency vs Output Load, 5.0 Vout**

**Efficiency vs Output Load, 6.0 Vout**


## TSR 3-1250(A)

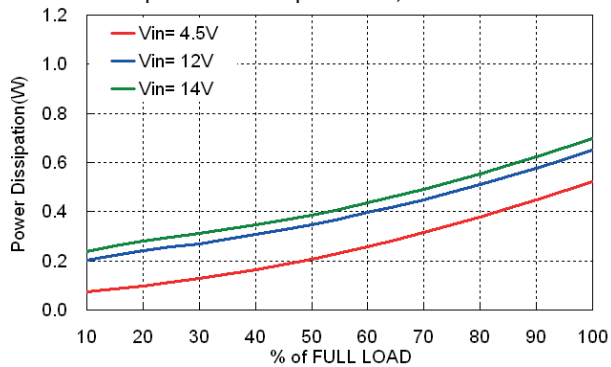
Power Dissipation vs Output Load, 0.6 Vout



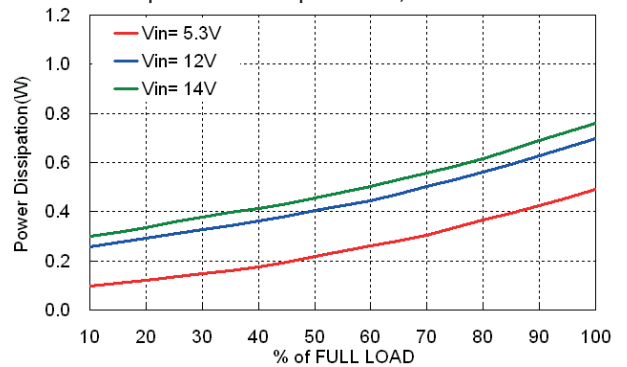
Power Dissipation vs Output Load, 1.5 Vout



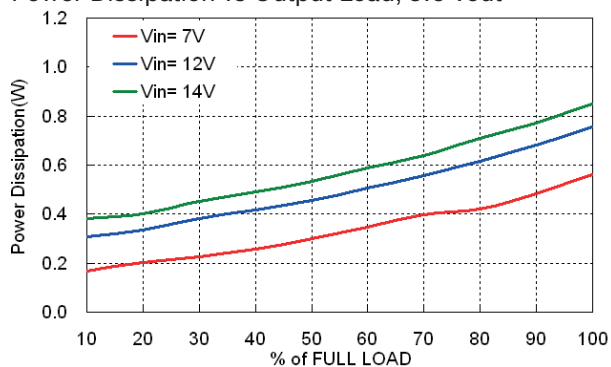
Power Dissipation vs Output Load, 1.8 Vout



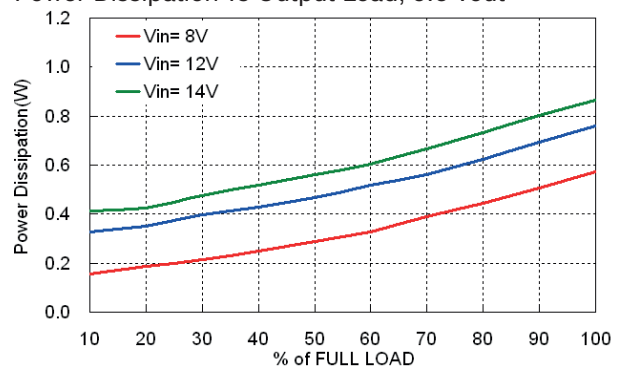
Power Dissipation vs Output Load, 3.3 Vout



Power Dissipation vs Output Load, 5.0 Vout

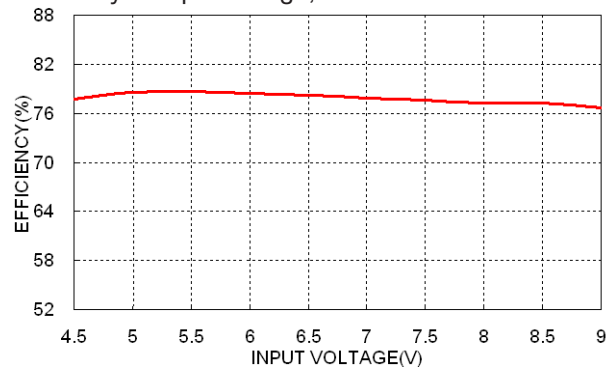


Power Dissipation vs Output Load, 6.0 Vout

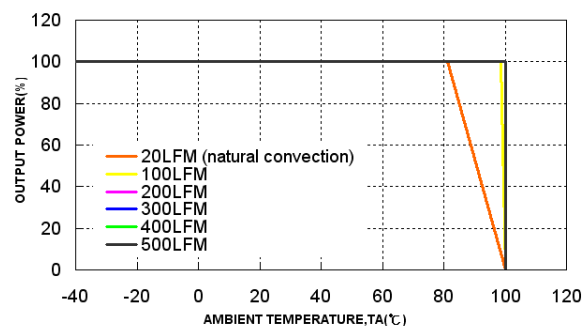


**TSR 3-1250(A)**

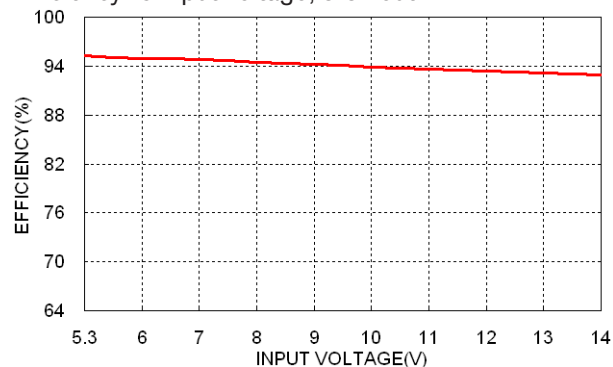
Efficiency vs Input Voltage, 0.6 Vout



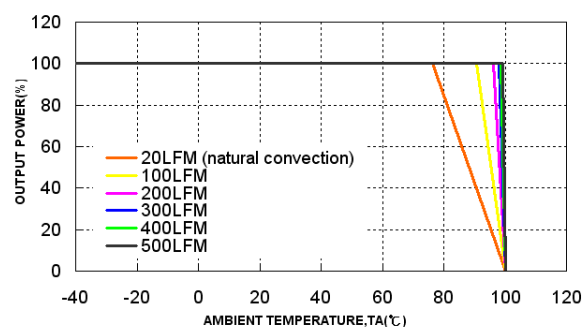
Derating Output Load vs Ambient Temperature  
0.6 Vout



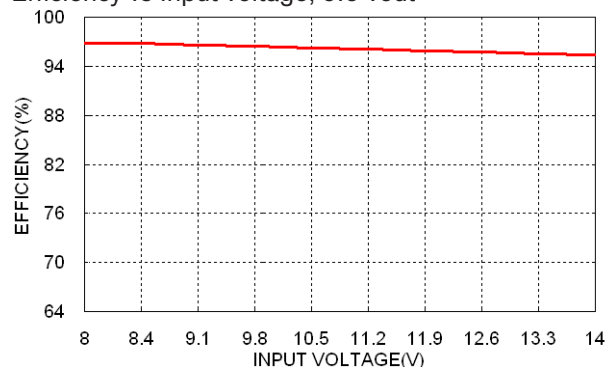
Efficiency vs Input Voltage, 3.3 Vout



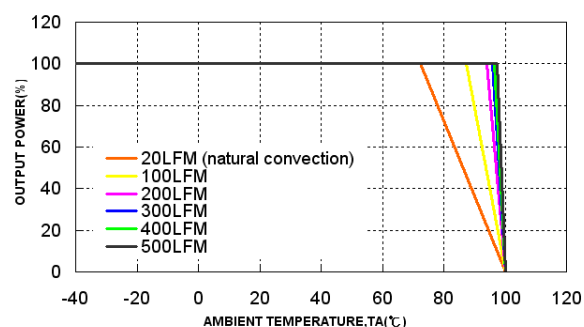
Derating Output Load vs Ambient Temperature  
3.3 Vout



Efficiency vs Input Voltage, 6.0 Vout



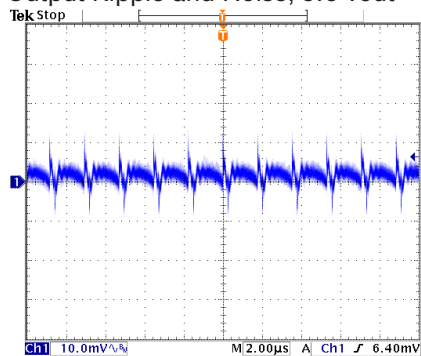
Derating Output Load vs Ambient Temperature  
6.0 Vout



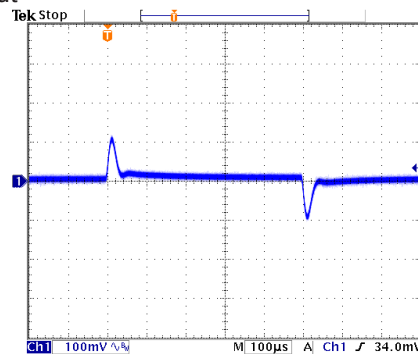


### TSR 3-1250(A)

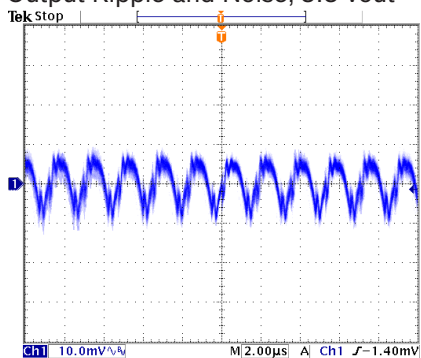
Typical Output Ripple and Noise, 0.6 Vout



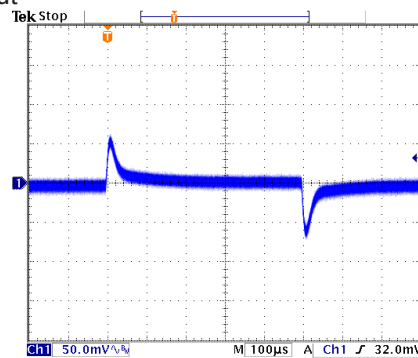
Transient Response to Dynamic Load Change (50%)  
0.6 Vout



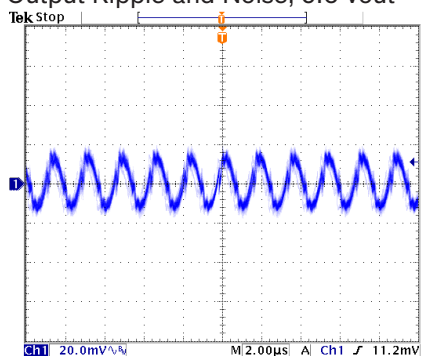
Typical Output Ripple and Noise, 3.3 Vout



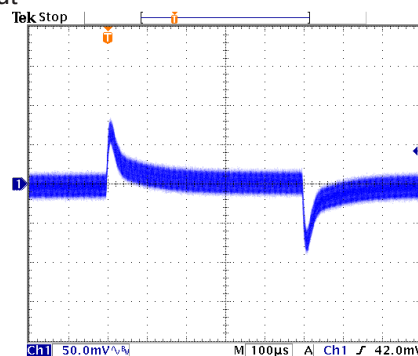
Transient Response to Dynamic Load Change (50%)  
3.3 Vout



Typical Output Ripple and Noise, 6.0 Vout

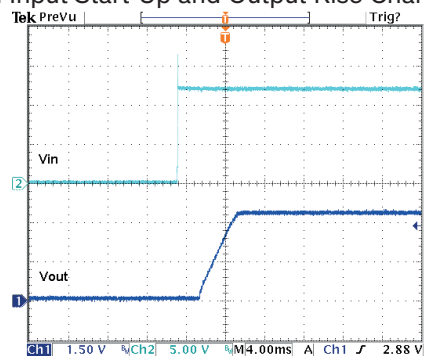


Transient Response to Dynamic Load Change (50%)  
6.0 Vout

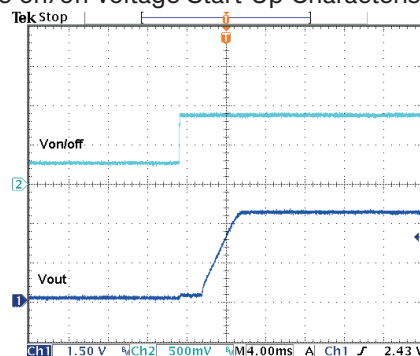


## TSR 3-1250(A)

Typical Input Start-Up and Output Rise Characteristic

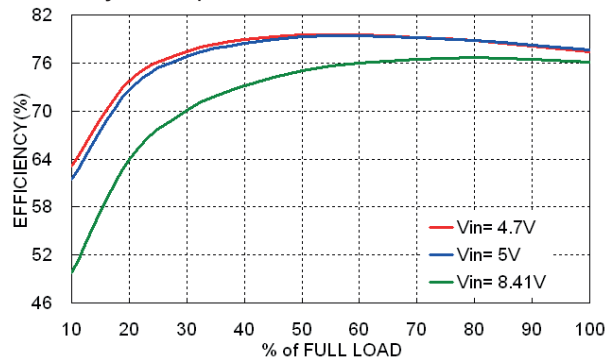


Remote on/off Voltage Start-Up Characteristic

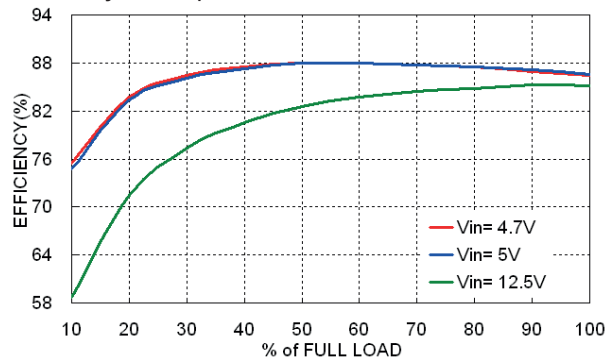


# TSR 3-1250(A) (negative Output)

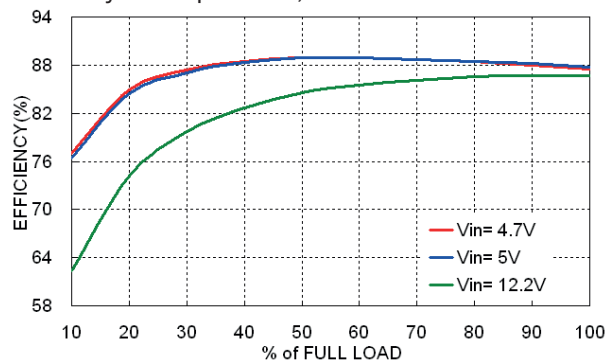
Efficiency vs Output Load, -0.6 Vout



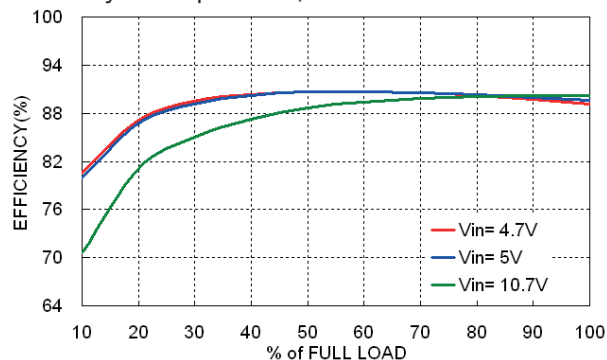
Efficiency vs Output Load, -1.5 Vout



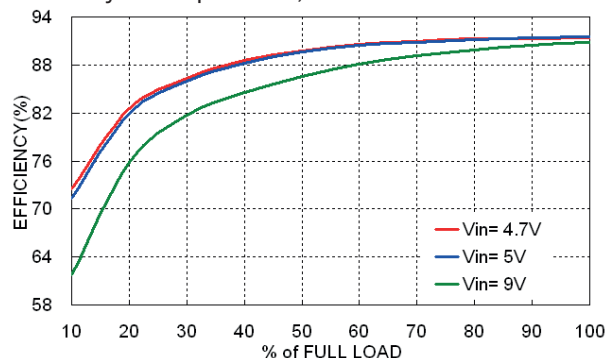
Efficiency vs Output Load, -1.8 Vout



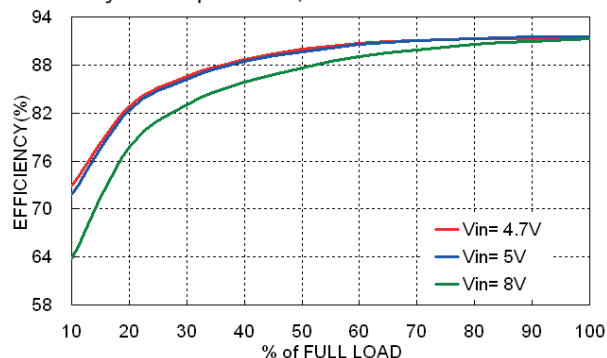
Efficiency vs Output Load, -3.3 Vout



Efficiency vs Output Load, -5.0 Vout

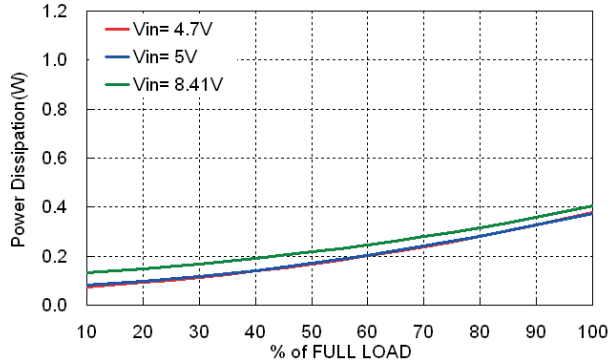


Efficiency vs Output Load, -6.0 Vout

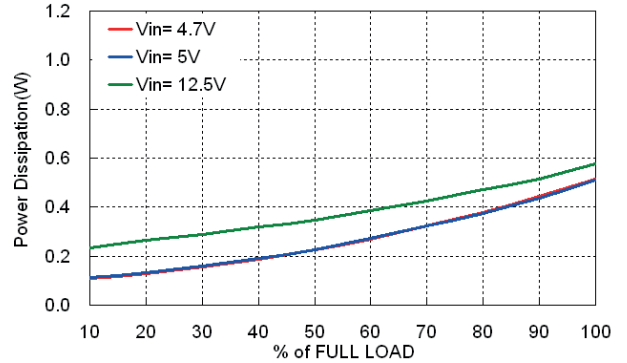


### TSR 3-1250(A) (negative Output)

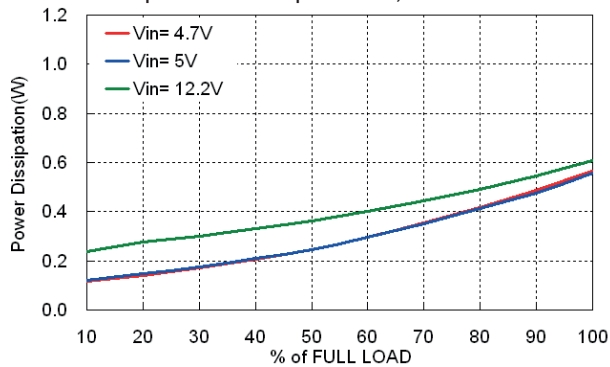
Power Dissipation vs Output Load, -0.6 Vout



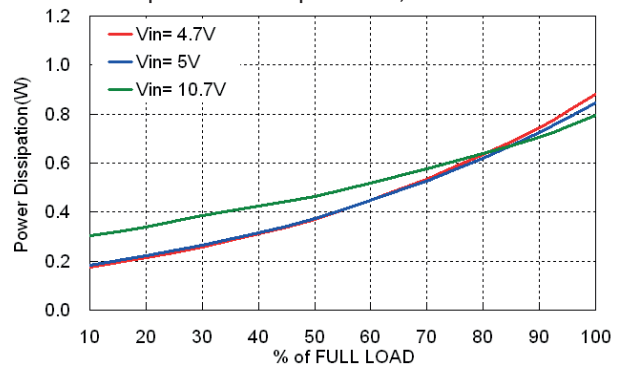
Power Dissipation vs Output Load, -1.5 Vout



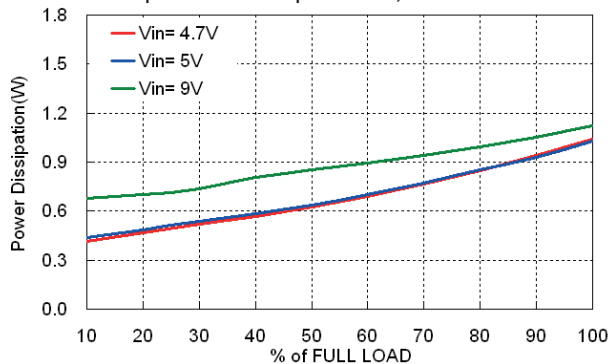
Power Dissipation vs Output Load, -1.8 Vout



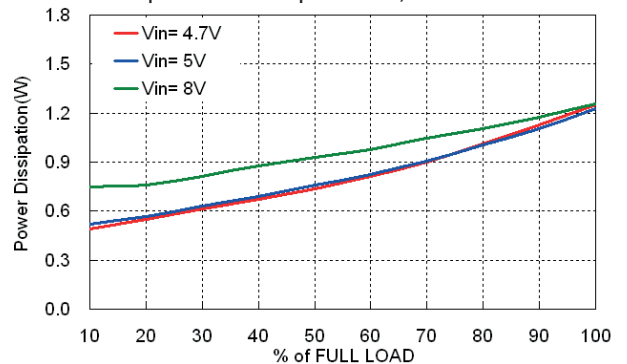
Power Dissipation vs Output Load, -3.3 Vout



Power Dissipation vs Output Load, -5.0 Vout

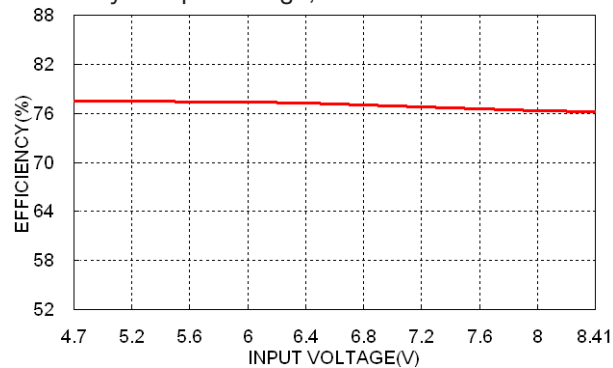


Power Dissipation vs Output Load, -6.0 Vout

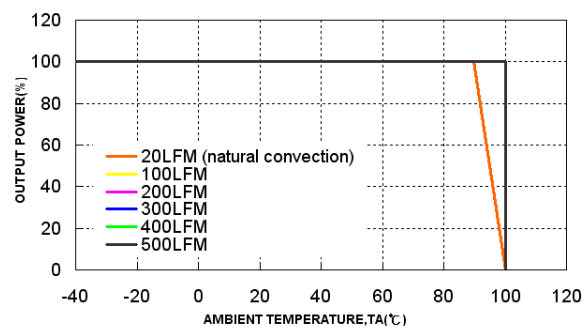


### TSR 3-1250(A) (negative Output)

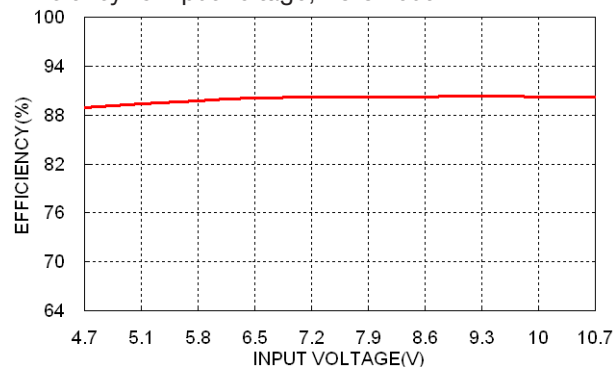
Efficiency vs Input Voltage, -0.6 Vout



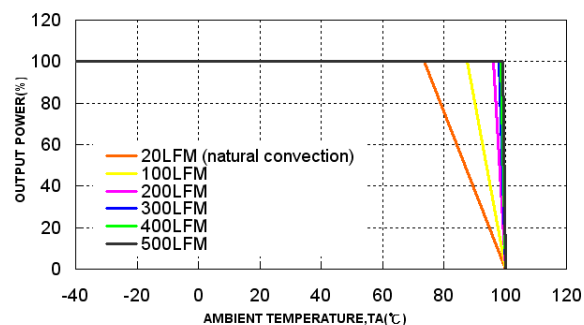
Derating Output Load vs Ambient Temperature -0.6 Vout



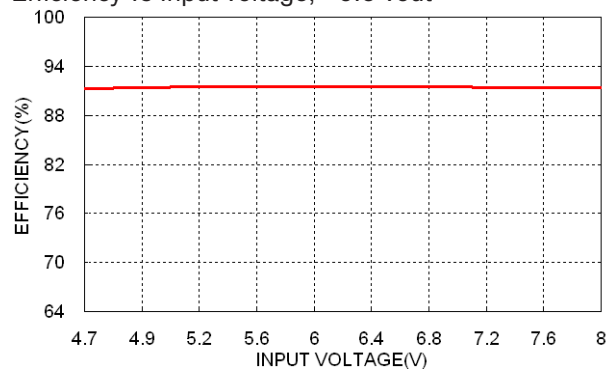
Efficiency vs Input Voltage, -3.3 Vout



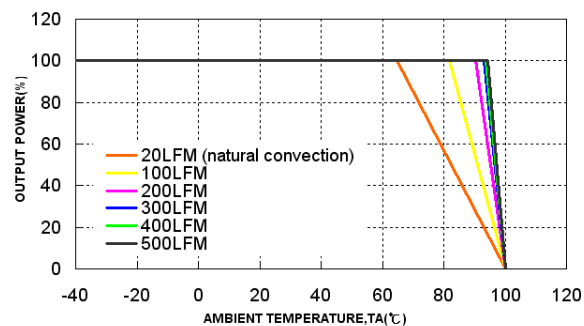
Derating Output Load vs Ambient Temperature -3.3 Vout



Efficiency vs Input Voltage, -6.0 Vout

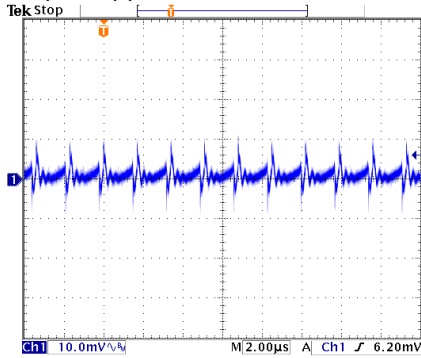


Derating Output Load vs Ambient Temperature -6.0 Vout

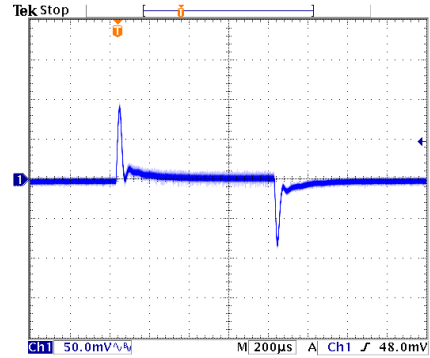


### TSR 3-1250(A) (negative Output)

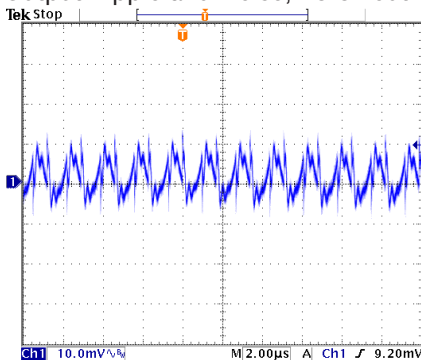
Typical Output Ripple and Noise, -0.6 Vout



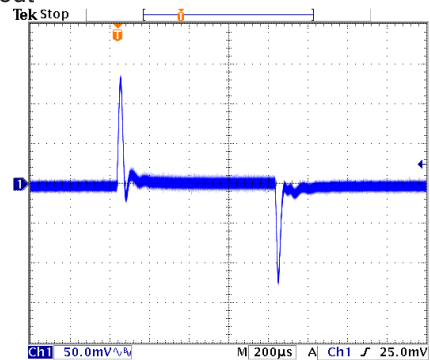
Transient Response to Dynamic Load Change (50%)  
-0.6 Vout



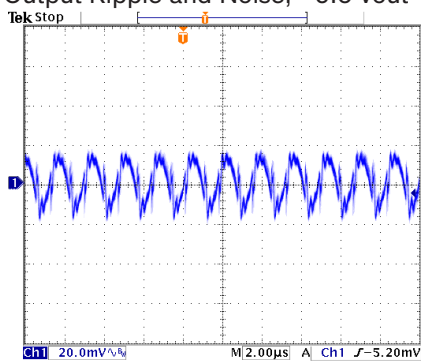
Typical Output Ripple and Noise, -3.3 Vout



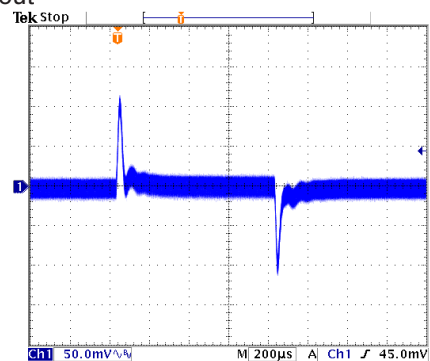
Transient Response to Dynamic Load Change (50%)  
-3.3 Vout



Typical Output Ripple and Noise, -6.0 Vout

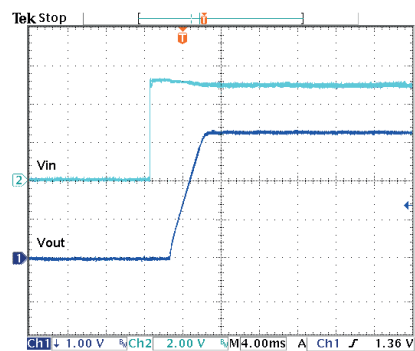


Transient Response to Dynamic Load Change (50%)  
-6.0 Vout

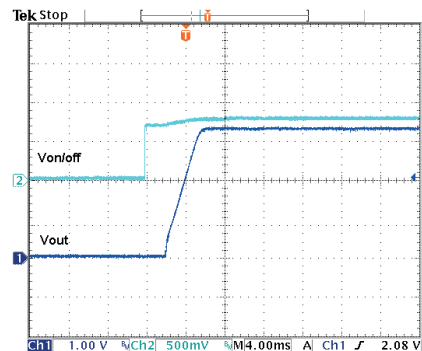


**TSR 3-1250(A) (negative Output)**

Typical Input Start-Up and Output Rise Characteristic

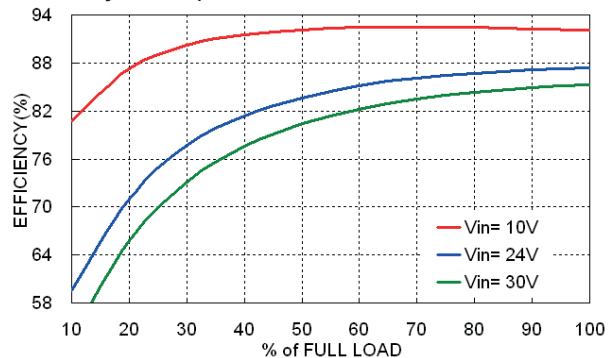


Remote on/off Voltage Start-Up Characteristic

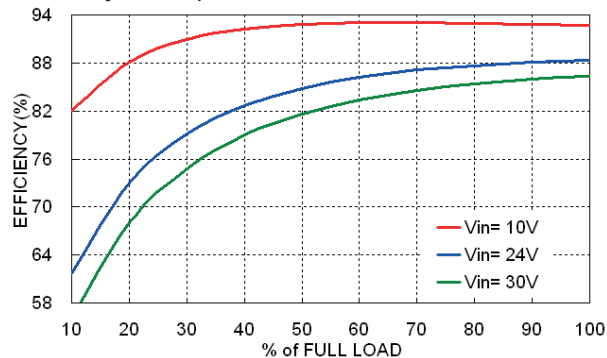


**TSR 3-2450(A)**

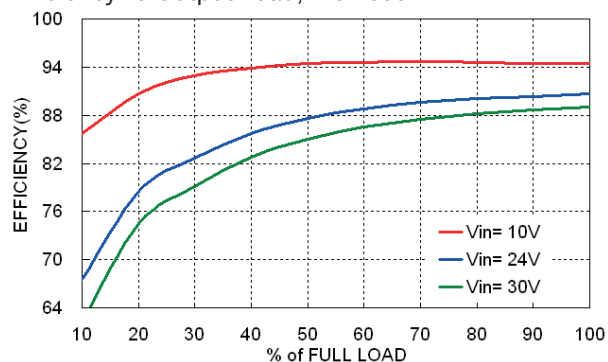
Efficiency vs Output Load, 3.0 Vout



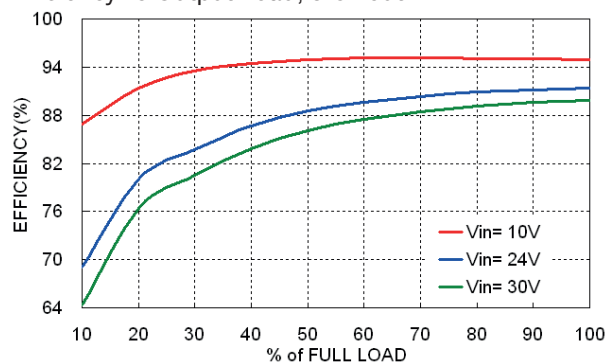
Efficiency vs Output Load, 3.3 Vout



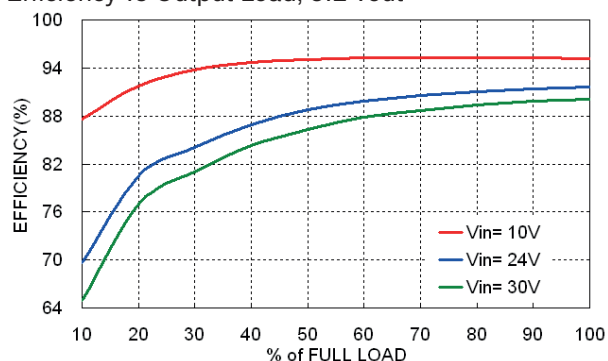
Efficiency vs Output Load, 4.5 Vout



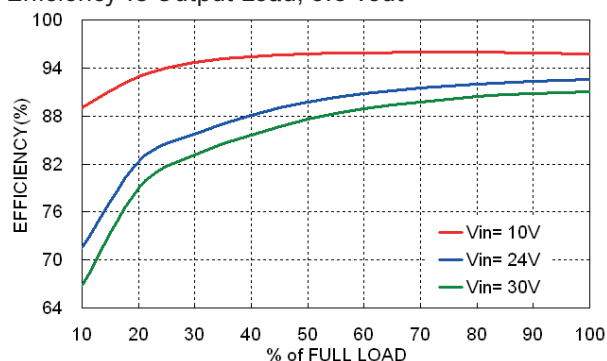
Efficiency vs Output Load, 5.0 Vout



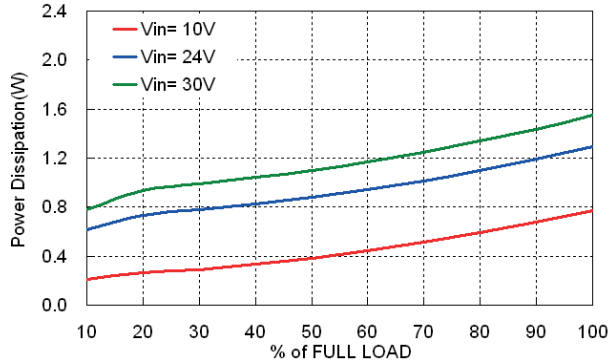
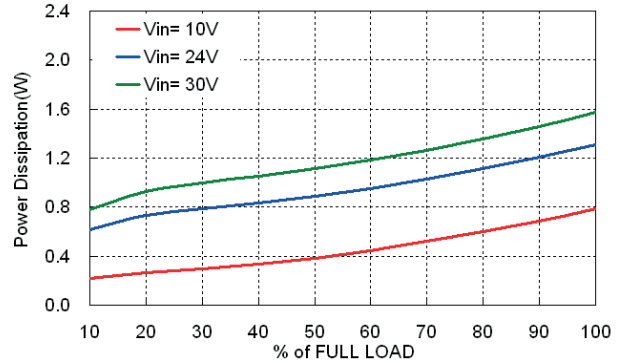
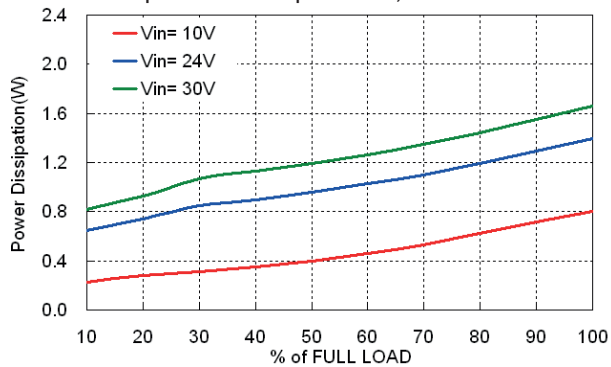
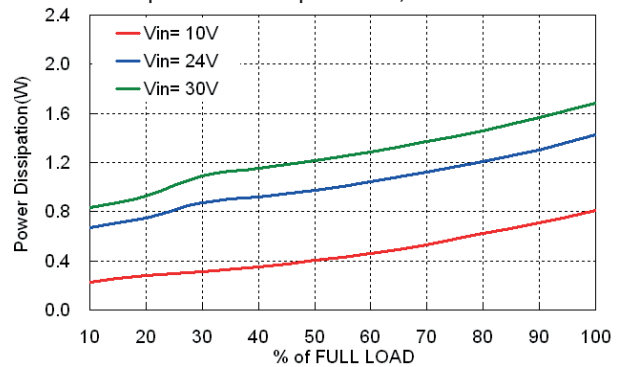
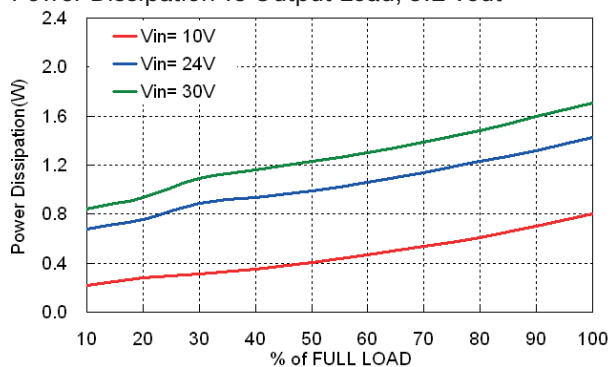
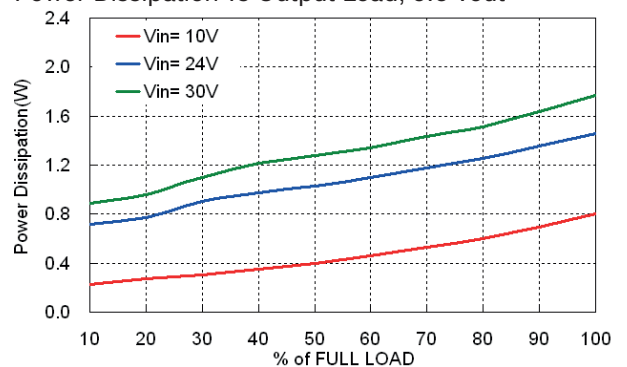
Efficiency vs Output Load, 5.2 Vout



Efficiency vs Output Load, 6.0 Vout

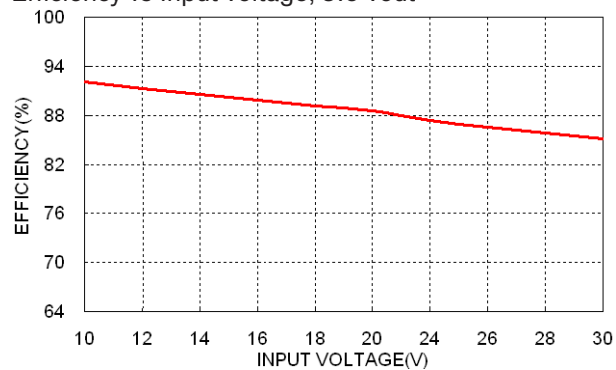




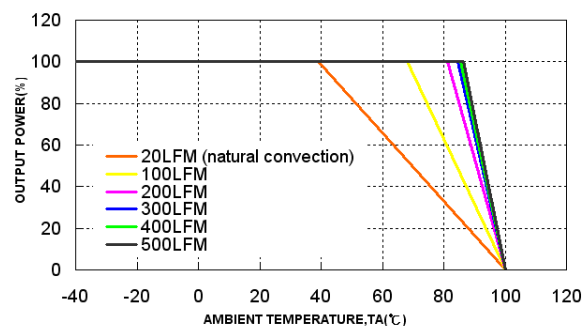
**TSR 3-2450(A)**
**Power Dissipation vs Output Load, 3.0 Vout**

**Power Dissipation vs Output Load, 3.3 Vout**

**Power Dissipation vs Output Load, 4.5 Vout**

**Power Dissipation vs Output Load, 5.0 Vout**

**Power Dissipation vs Output Load, 5.2 Vout**

**Power Dissipation vs Output Load, 6.0 Vout**


**TSR 3-2450(A)**

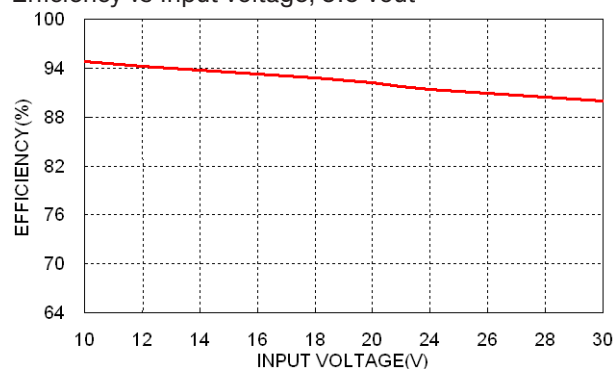
Efficiency vs Input Voltage, 3.0 Vout



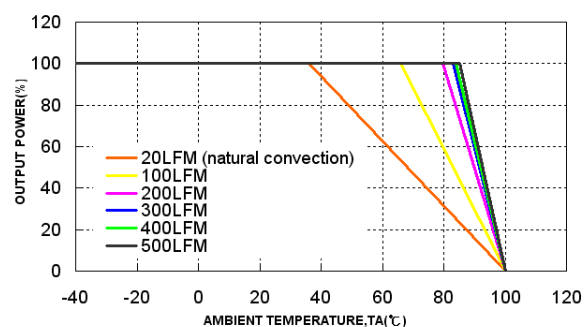
Derating Output Load vs Ambient Temperature 3.0 Vout



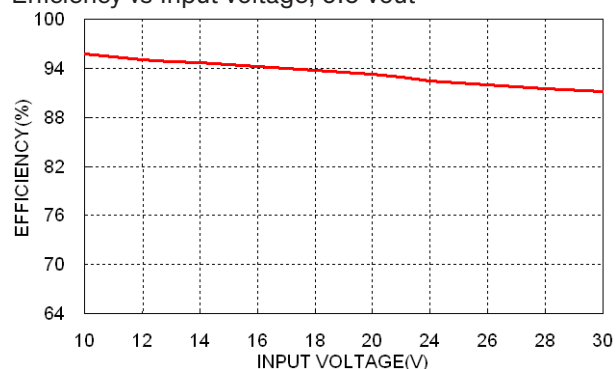
Efficiency vs Input Voltage, 5.0 Vout



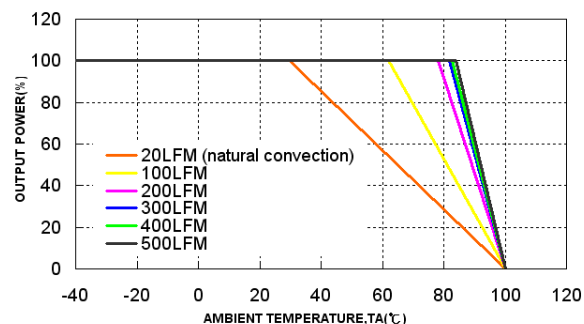
Derating Output Load vs Ambient Temperature 5.0 Vout



Efficiency vs Input Voltage, 6.0 Vout

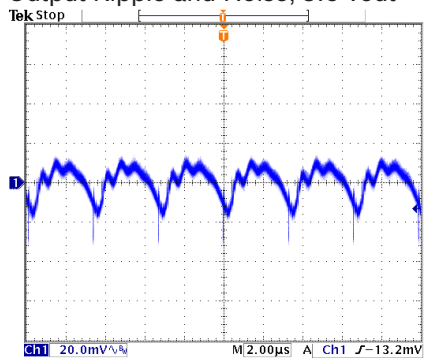


Derating Output Load vs Ambient Temperature 6.0 Vout

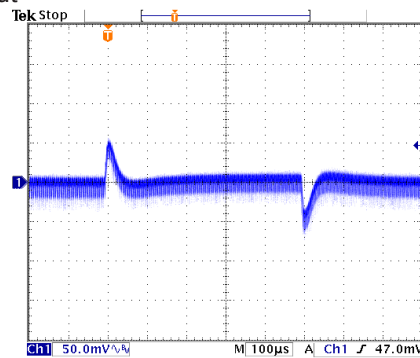


### TSR 3-2450(A)

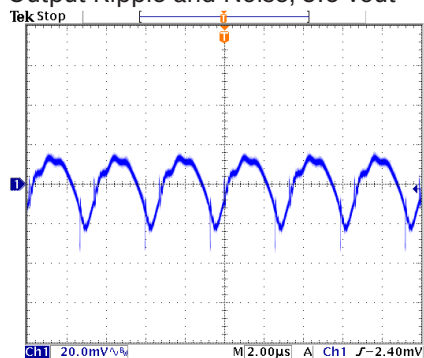
Typical Output Ripple and Noise, 3.0 Vout



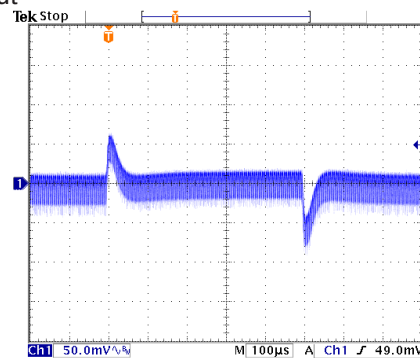
Transient Response to Dynamic Load Change (50%)  
3.0 Vout



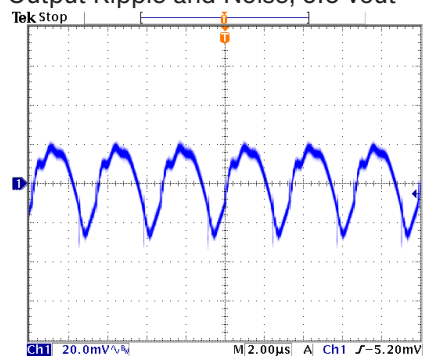
Typical Output Ripple and Noise, 5.0 Vout



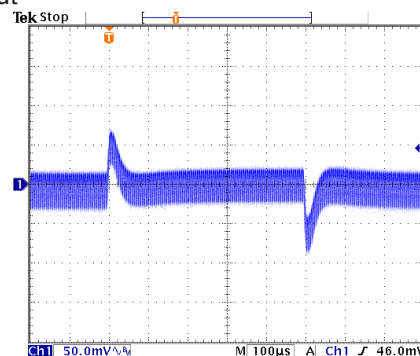
Transient Response to Dynamic Load Change (50%)  
5.0 Vout



Typical Output Ripple and Noise, 6.0 Vout

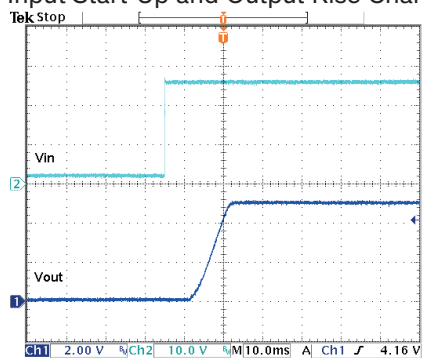


Transient Response to Dynamic Load Change (50%)  
6.0 Vout

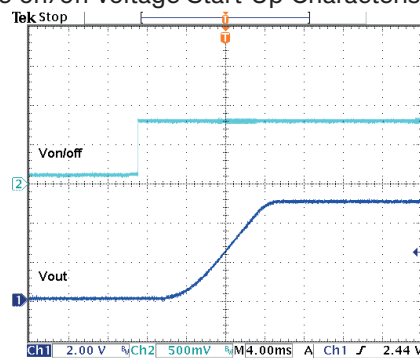


## TSR 3-2450(A)

Typical Input Start-Up and Output Rise Characteristic

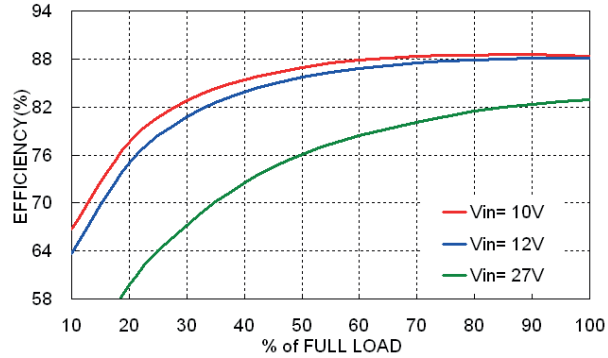


Remote on/off Voltage Start-Up Characteristic

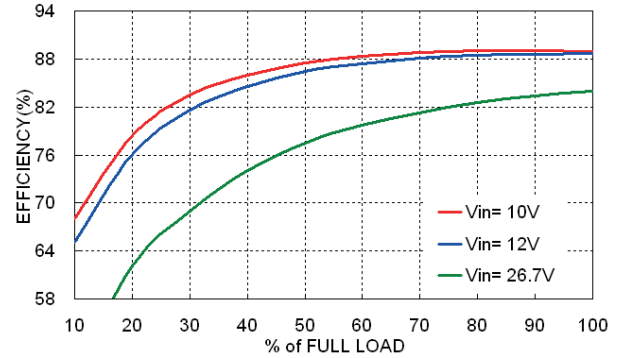


**TSR 3-2450(A) (negative Output)**

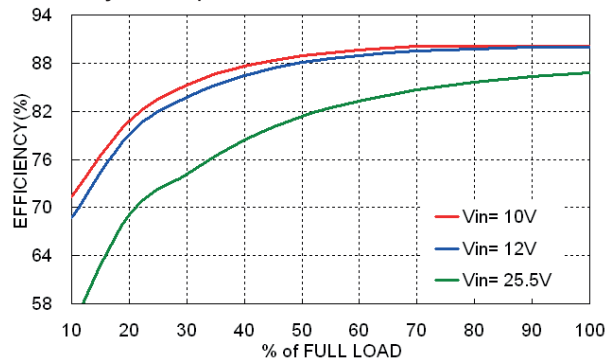
Efficiency vs Output Load, -3.0 Vout



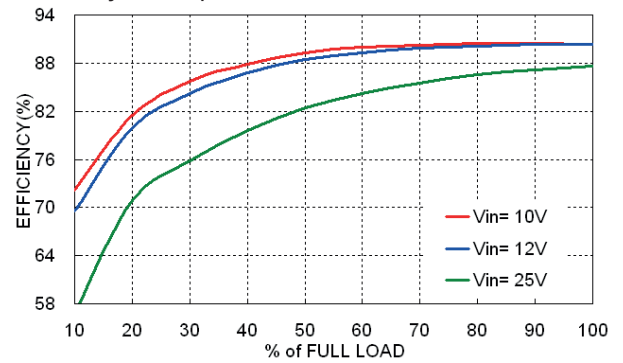
Efficiency vs Output Load, -3.3 Vout



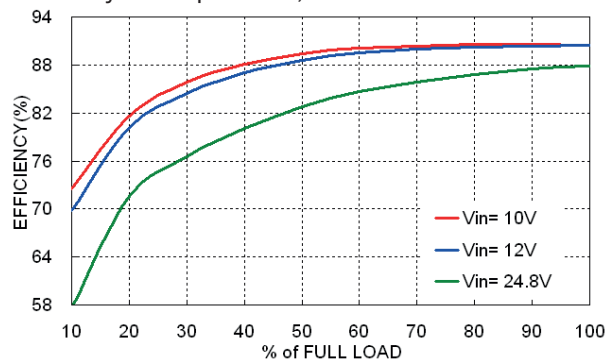
Efficiency vs Output Load, -4.5 Vout



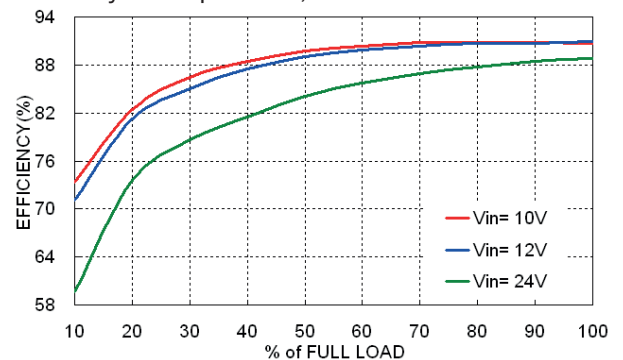
Efficiency vs Output Load, -5.0 Vout



Efficiency vs Output Load, -5.2 Vout

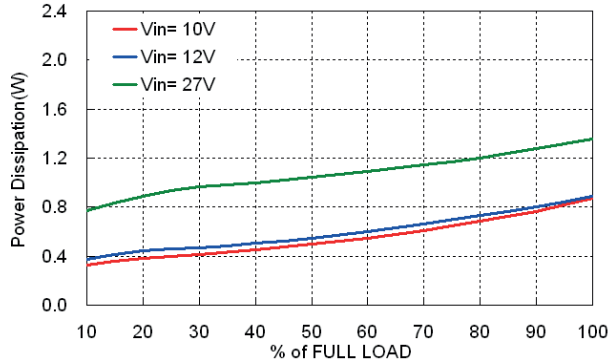


Efficiency vs Output Load, -6.0 Vout

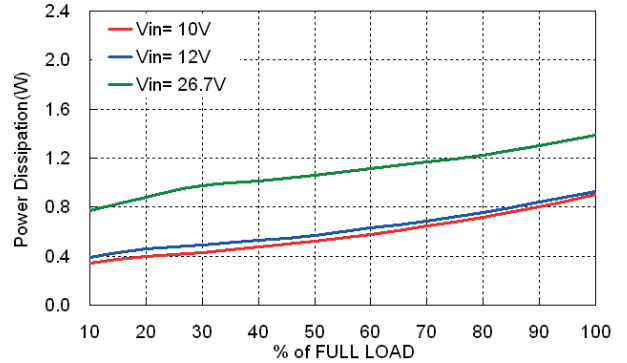


### TSR 3-2450(A) (negative Output)

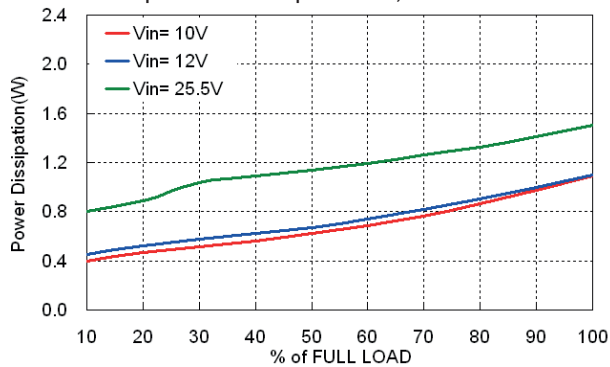
Power Dissipation vs Output Load, -3.0 Vout



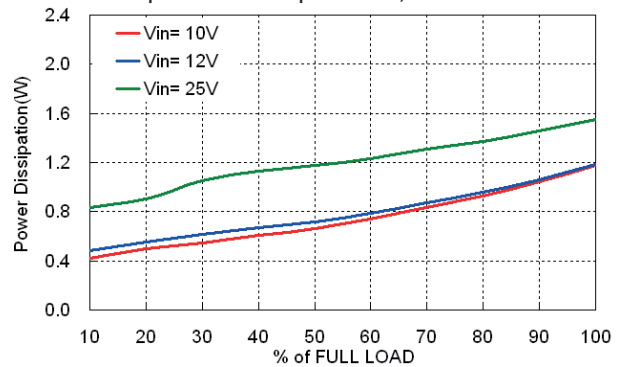
Power Dissipation vs Output Load, -3.3 Vout



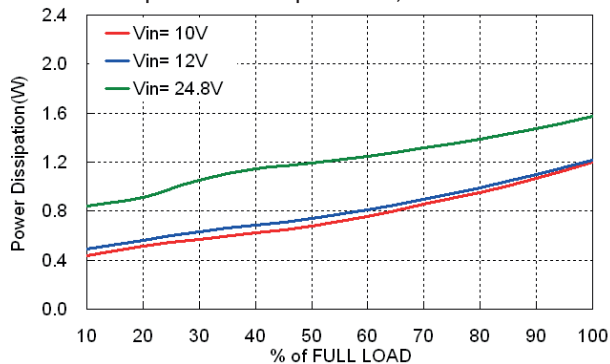
Power Dissipation vs Output Load, -4.5 Vout



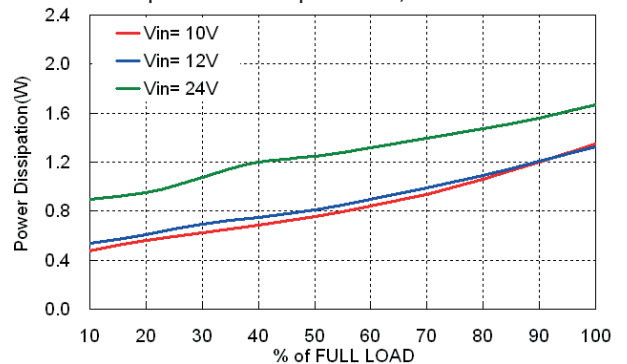
Power Dissipation vs Output Load, -5.0 Vout



Power Dissipation vs Output Load, -5.2 Vout

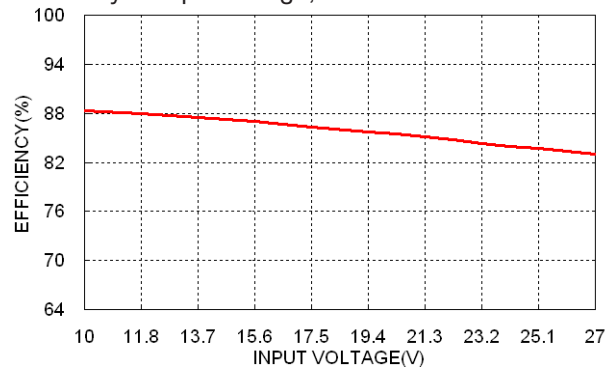


Power Dissipation vs Output Load, -6.0 Vout

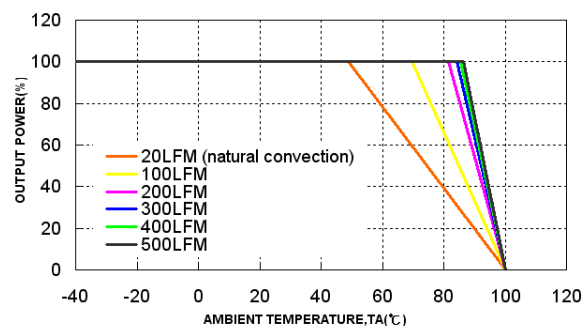


### TSR 3-2450(A) (negative Output)

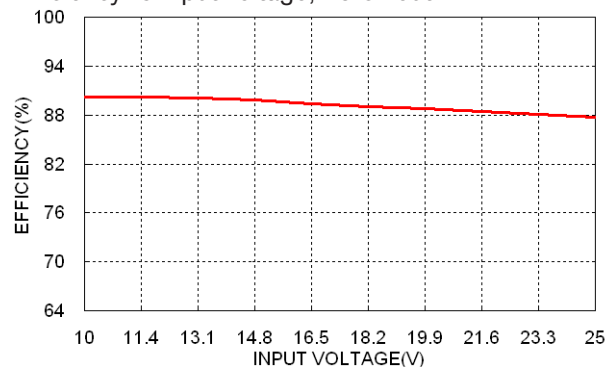
Efficiency vs Input Voltage, -3.0 Vout



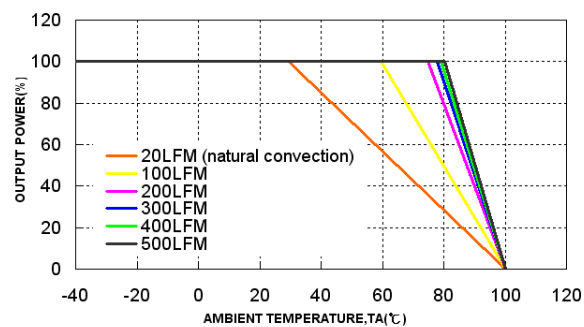
Derating Output Load vs Ambient Temperature -3.0 Vout



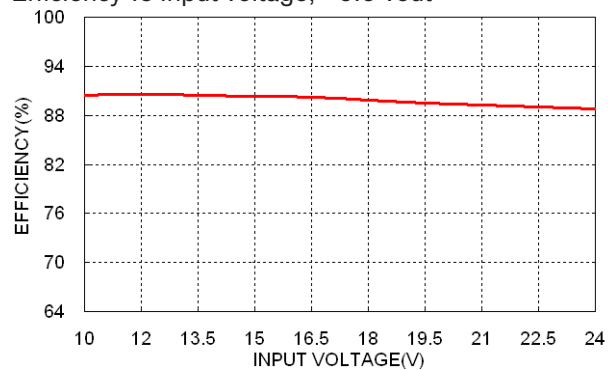
Efficiency vs Input Voltage, -5.0 Vout



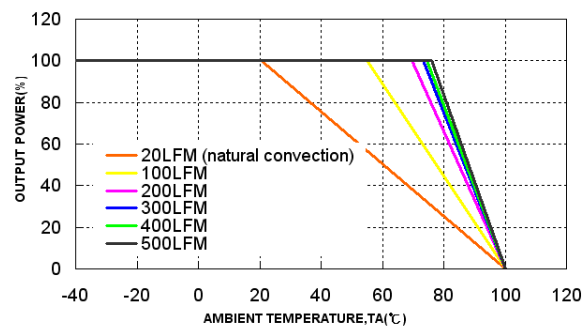
Derating Output Load vs Ambient Temperature -5.0 Vout



Efficiency vs Input Voltage, -6.0 Vout

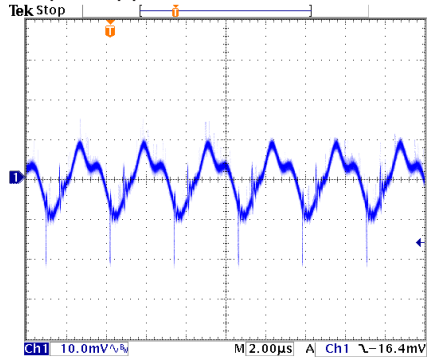


Derating Output Load vs Ambient Temperature -6.0 Vout

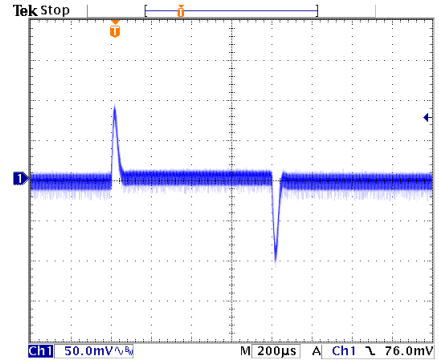


**TSR 3-2450(A) (negative Output)**

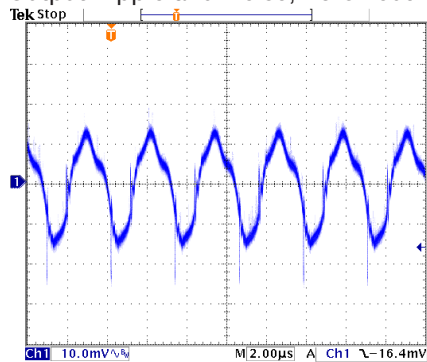
Typical Output Ripple and Noise, -3.0 Vout



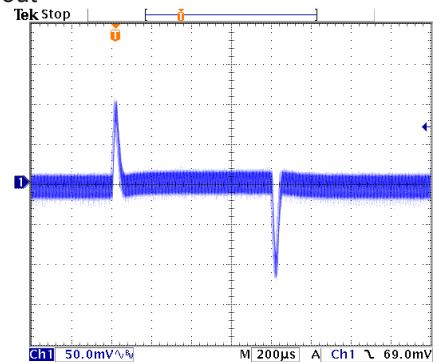
Transient Response to Dynamic Load Change (50%)  
-3.0 Vout



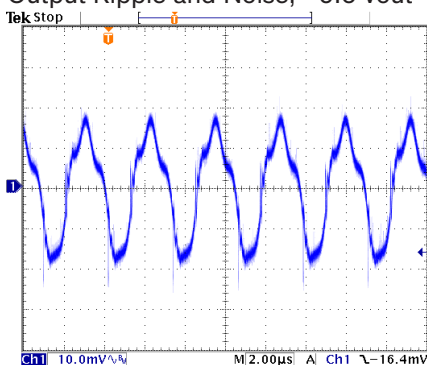
Typical Output Ripple and Noise, -5.0 Vout



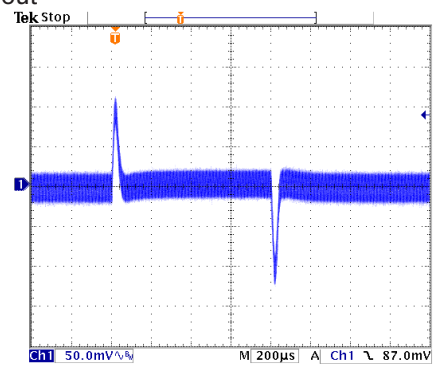
Transient Response to Dynamic Load Change (50%)  
-5.0 Vout



Typical Output Ripple and Noise, -6.0 Vout



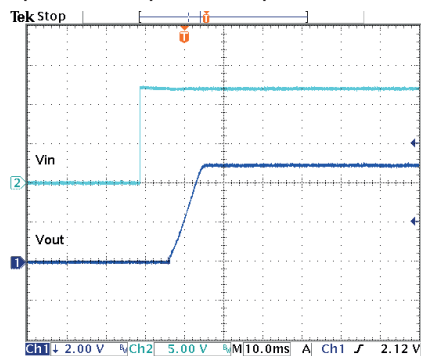
Transient Response to Dynamic Load Change (50%)  
-6.0 Vout



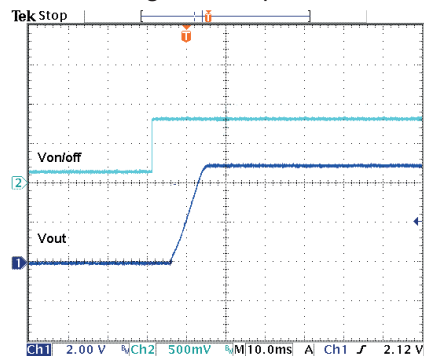


## TSR 3-2450(A) (negative Output)

Typical Input Start-Up and Output Rise Characteristic

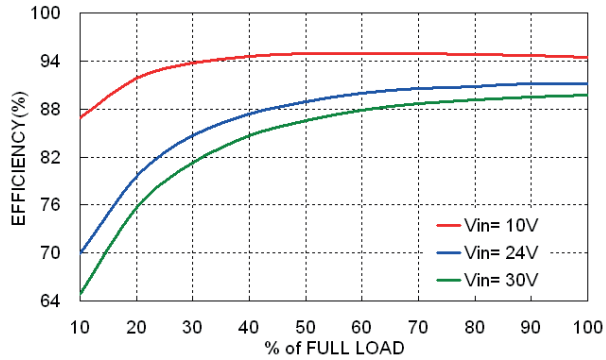


Remote on/off Voltage Start-Up Characteristic

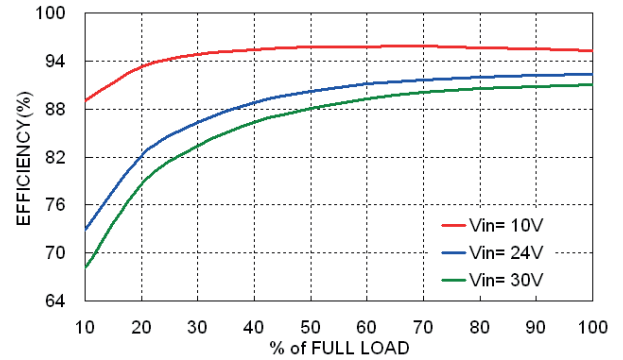


### TSR 3-24150(A)

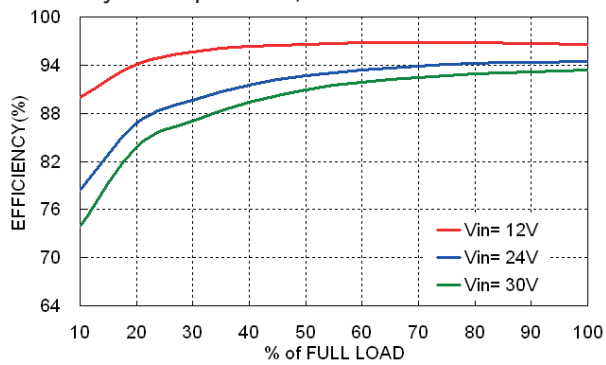
Efficiency vs Output Load, 5.0 Vout



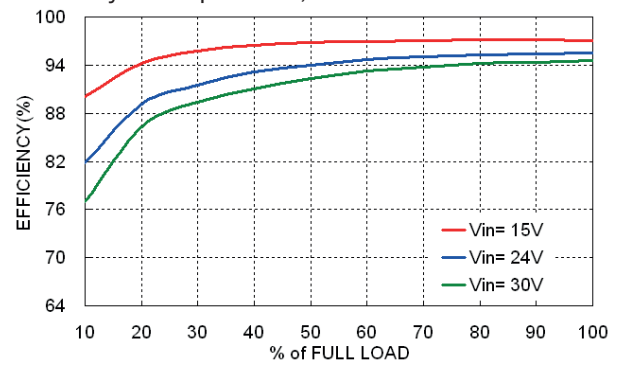
Efficiency vs Output Load, 6.0 Vout



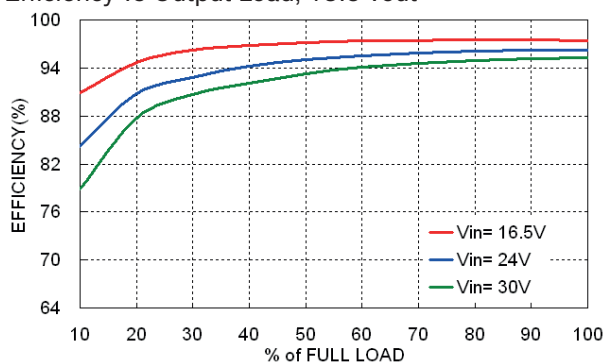
Efficiency vs Output Load, 9.0 Vout



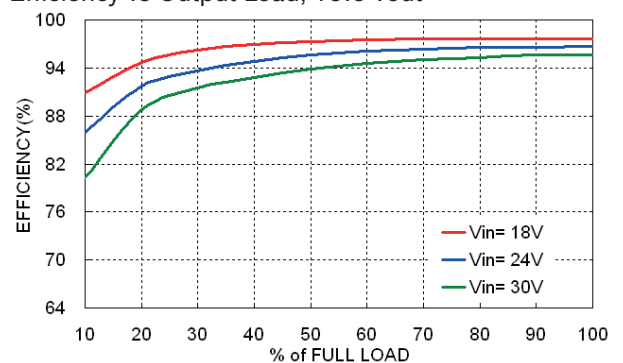
Efficiency vs Output Load, 12.0 Vout



Efficiency vs Output Load, 13.5 Vout

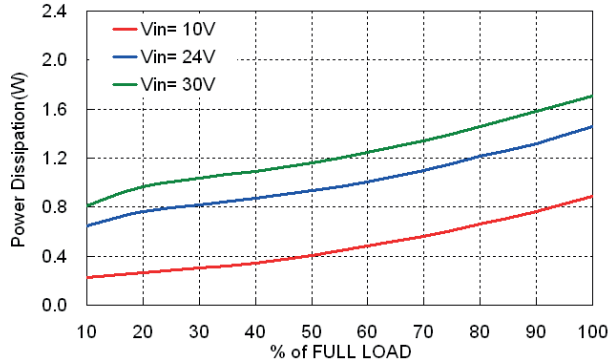


Efficiency vs Output Load, 15.0 Vout

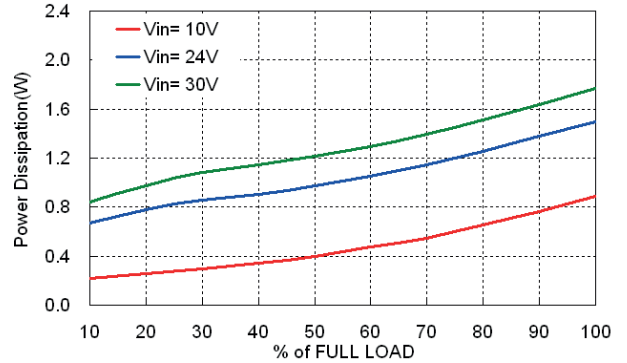


## TSR 3-24150(A)

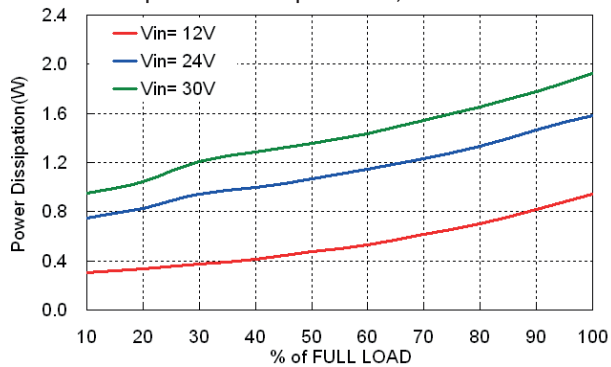
Power Dissipation vs Output Load, 5.0 Vout



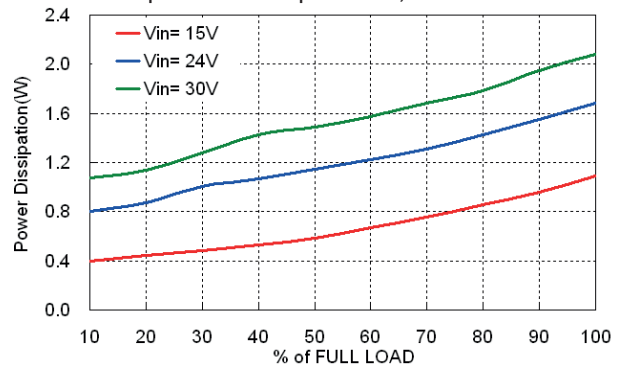
Power Dissipation vs Output Load, 6.0 Vout



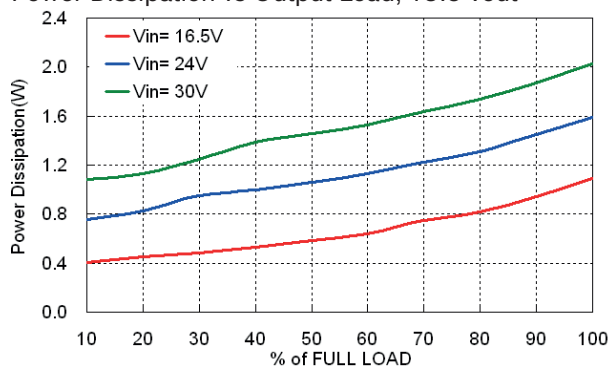
Power Dissipation vs Output Load, 9.0 Vout



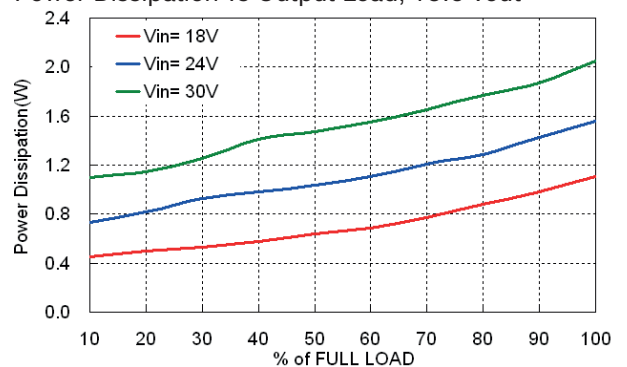
Power Dissipation vs Output Load, 12.0 Vout



Power Dissipation vs Output Load, 13.5 Vout

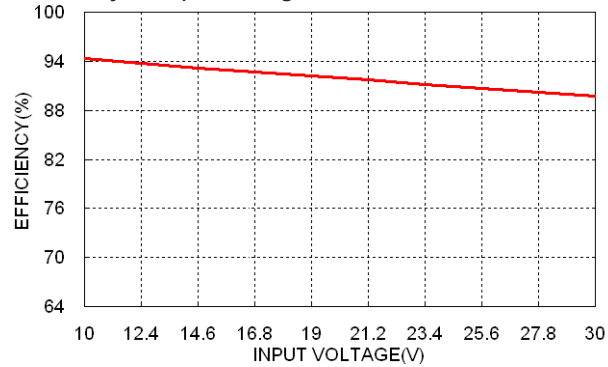


Power Dissipation vs Output Load, 15.0 Vout

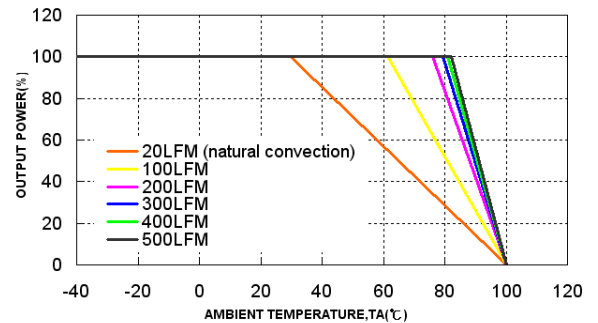


**TSR 3-24150(A)**

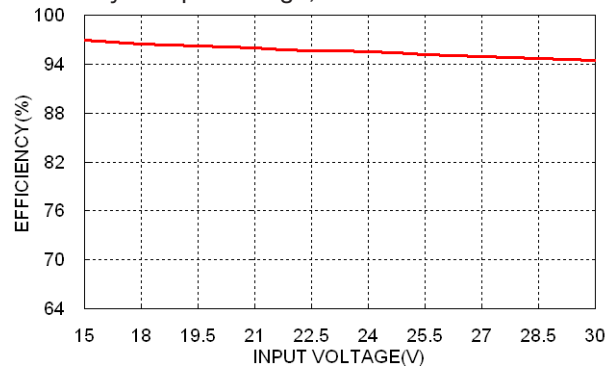
Efficiency vs Input Voltage, 5.0 Vout



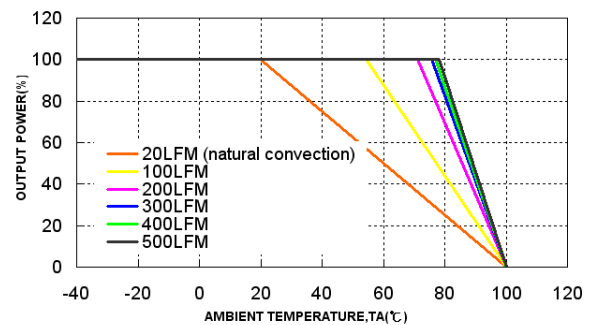
Derating Output Load vs Ambient Temperature 5.0 Vout



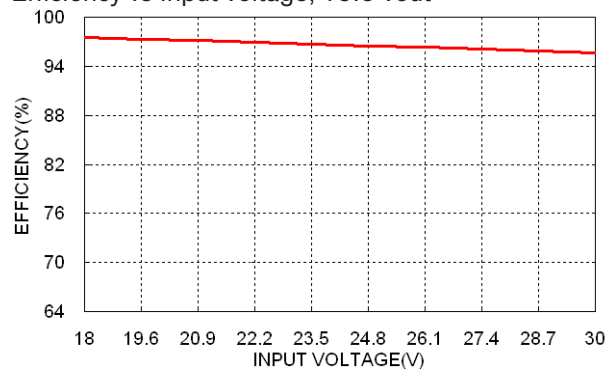
Efficiency vs Input Voltage, 12.0 Vout



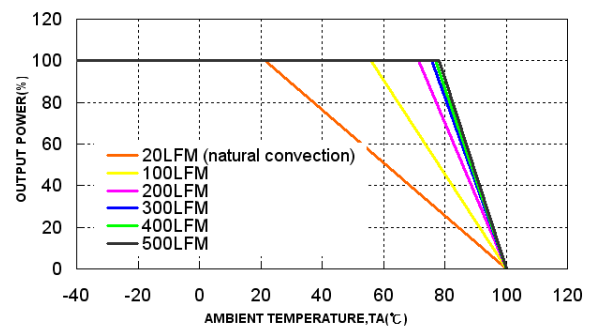
Derating Output Load vs Ambient Temperature 12.0 Vout



Efficiency vs Input Voltage, 15.0 Vout

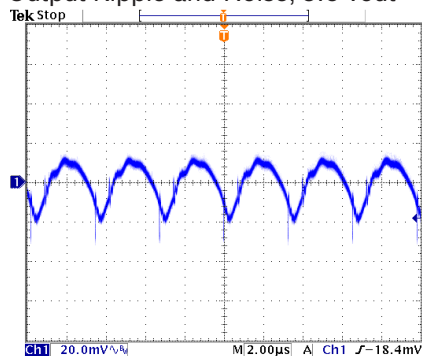


Derating Output Load vs Ambient Temperature 15.0 Vout

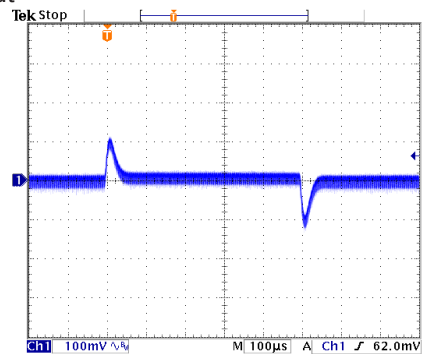


### TSR 3-24150(A)

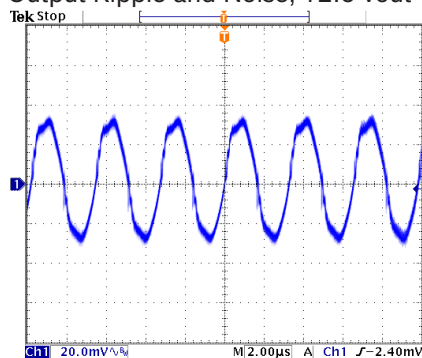
Typical Output Ripple and Noise, 5.0 Vout



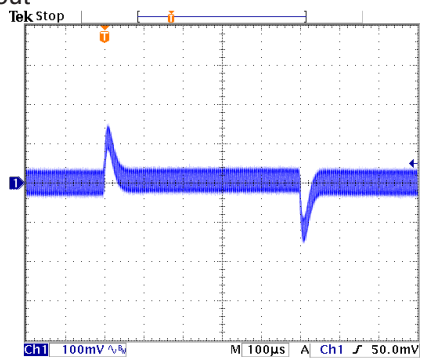
Transient Response to Dynamic Load Change (50%)  
5.0 Vout



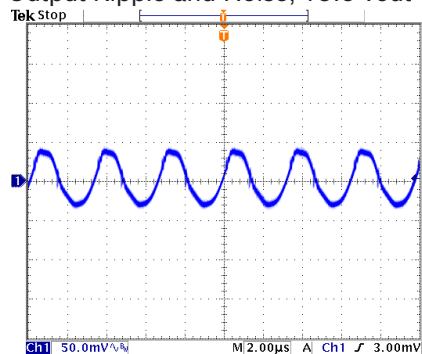
Typical Output Ripple and Noise, 12.0 Vout



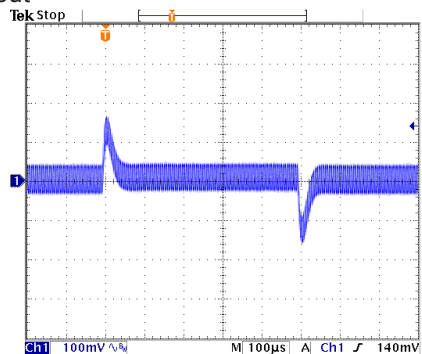
Transient Response to Dynamic Load Change (50%)  
12.0 Vout



Typical Output Ripple and Noise, 15.0 Vout

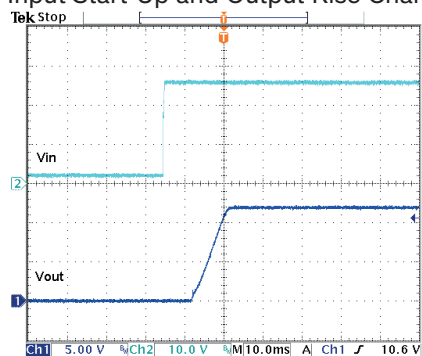


Transient Response to Dynamic Load Change (50%)  
15.0 Vout

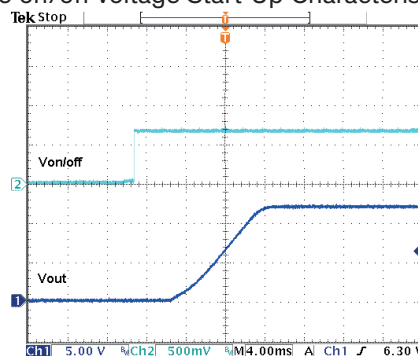


**TSR 3-24150(A)**

Typical Input Start-Up and Output Rise Characteristic

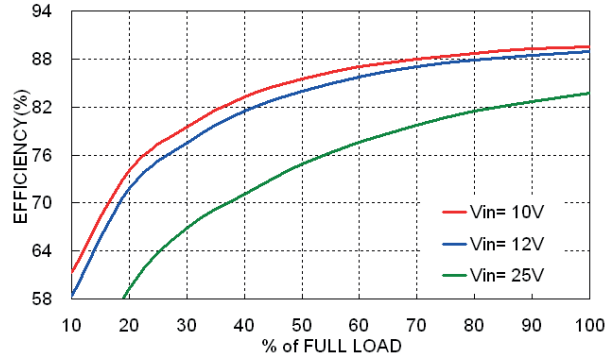


Remote on/off Voltage Start-Up Characteristic

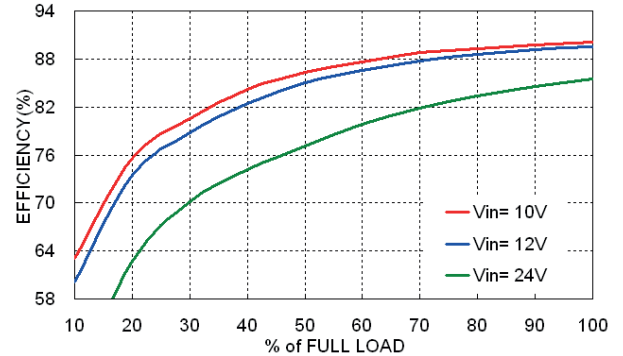


**TSR 3-24150(A) (negative Output)**

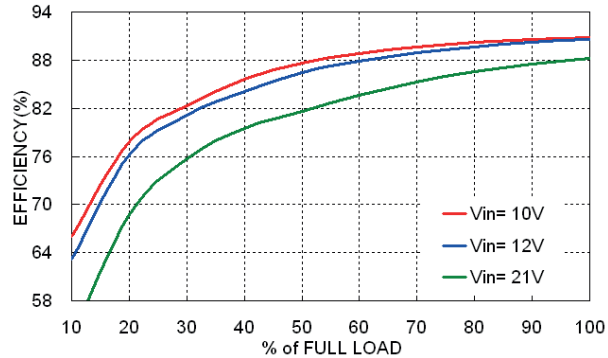
Efficiency vs Output Load, -5.0 Vout



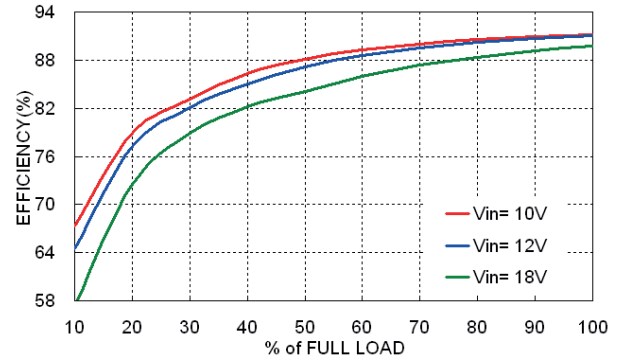
Efficiency vs Output Load, -6.0 Vout



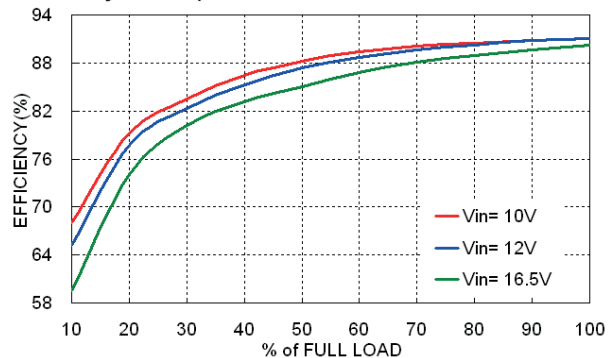
Efficiency vs Output Load, -9.0 Vout



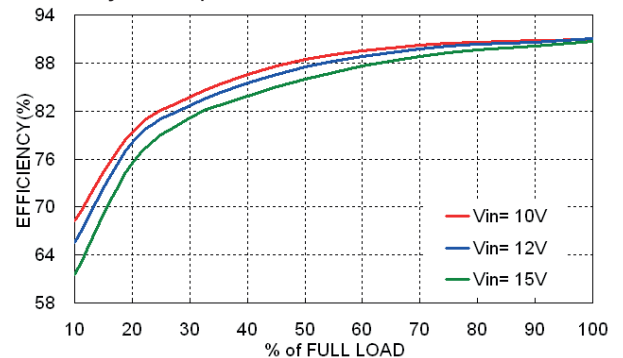
Efficiency vs Output Load, -12.0 Vout



Efficiency vs Output Load, -13.5 Vout

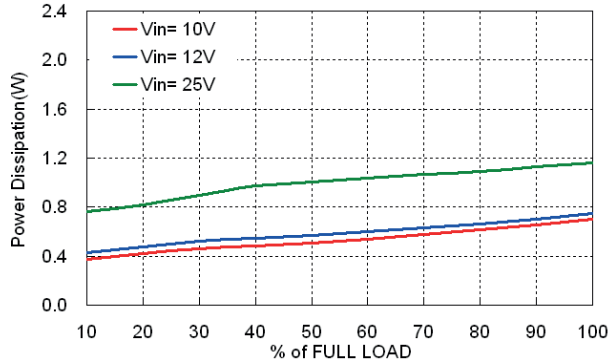


Efficiency vs Output Load, -15.0 Vout

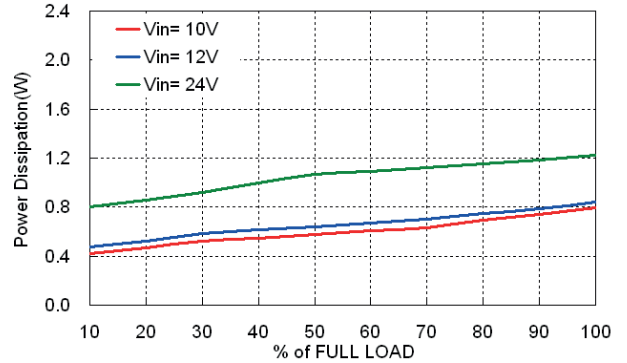


### TSR 3-24150(A) (negative Output)

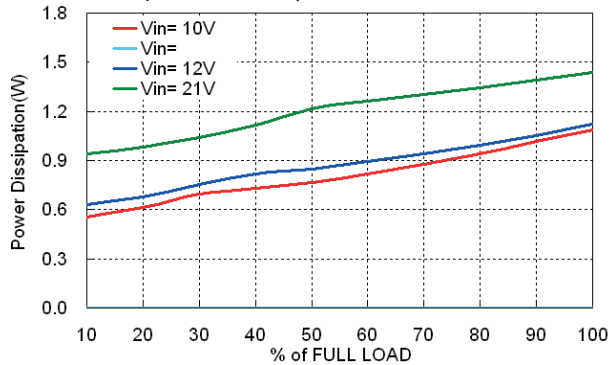
Power Dissipation vs Output Load, -5.0 Vout



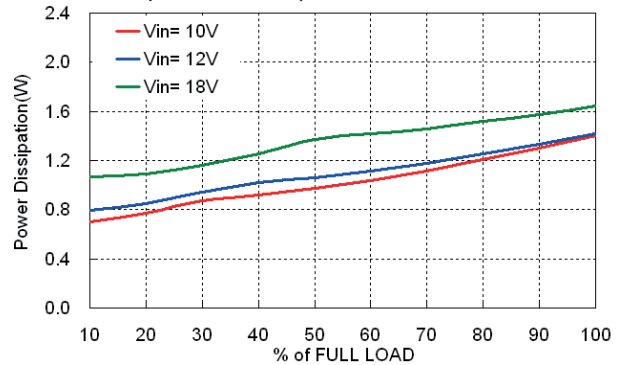
Power Dissipation vs Output Load, -6.0 Vout



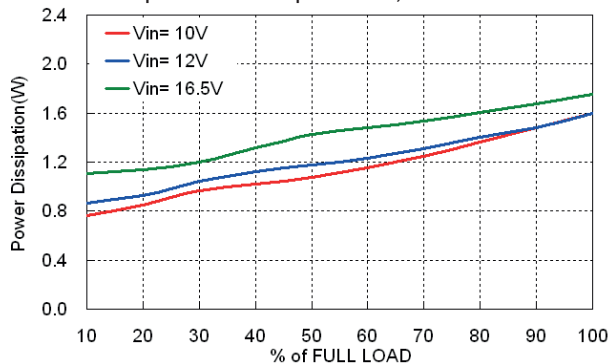
Power Dissipation vs Output Load, -9.0 Vout



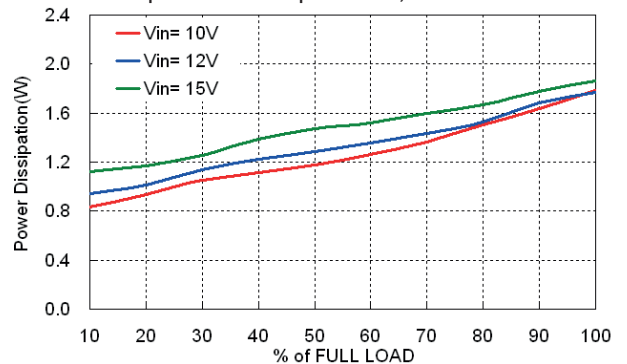
Power Dissipation vs Output Load, -12.0 Vout



Power Dissipation vs Output Load, -13.5 Vout



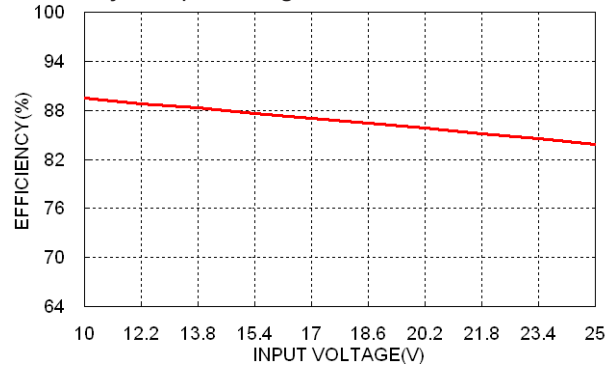
Power Dissipation vs Output Load, -15.0 Vout



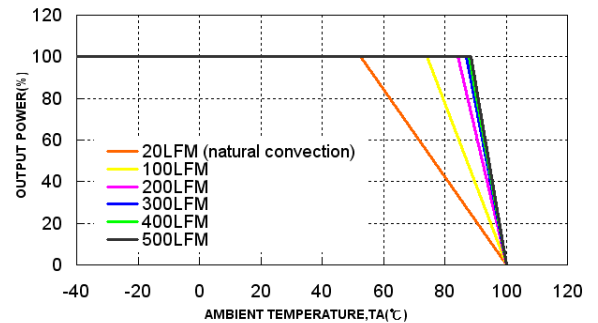


**TSR 3-24150(A) (negative Output)**

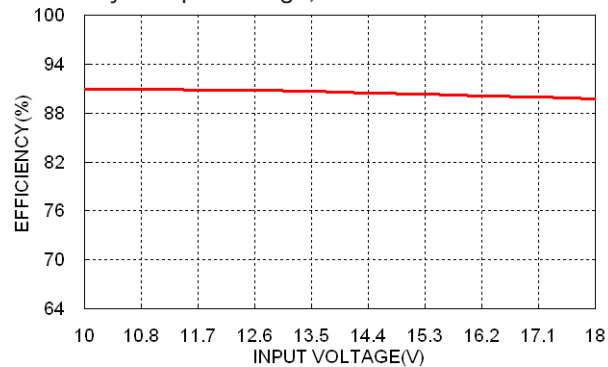
Efficiency vs Input Voltage, -5.0 Vout



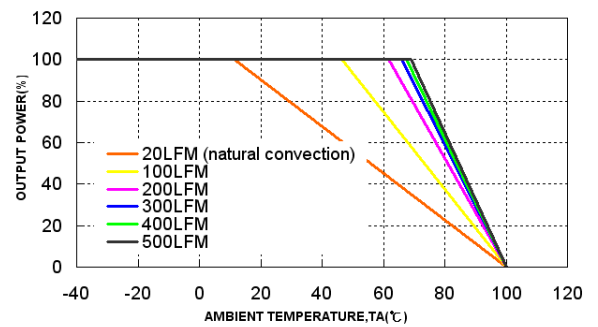
Derating Output Load vs Ambient Temperature -5.0 Vout



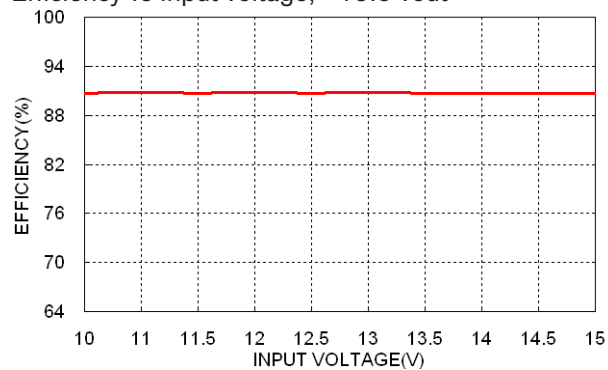
Efficiency vs Input Voltage, -12.0 Vout



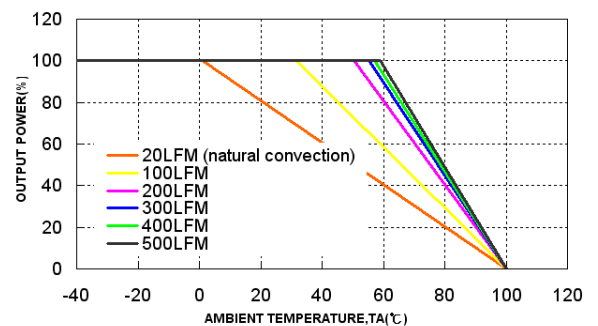
Derating Output Load vs Ambient Temperature -12.0 Vout



Efficiency vs Input Voltage, -15.0 Vout

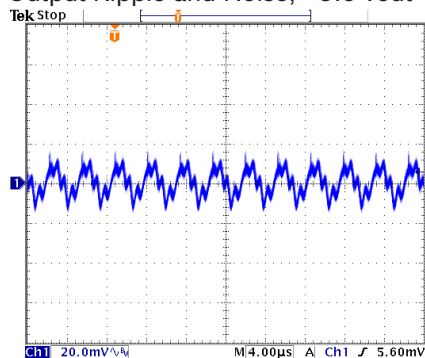


Derating Output Load vs Ambient Temperature -15.0 Vout

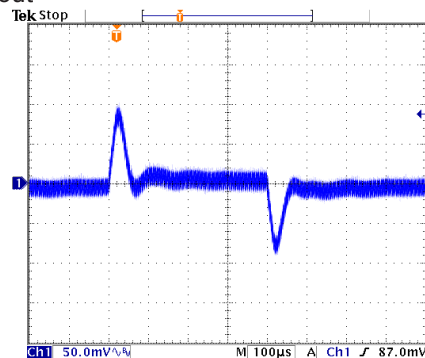


**TSR 3-24150(A) (negative Output)**

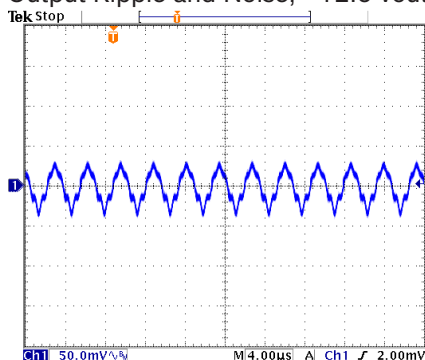
Typical Output Ripple and Noise, -5.0 Vout



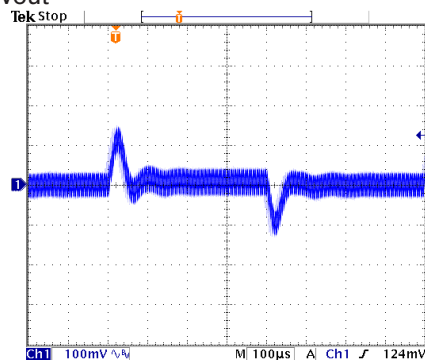
Transient Response to Dynamic Load Change (50%)  
-5.0 Vout



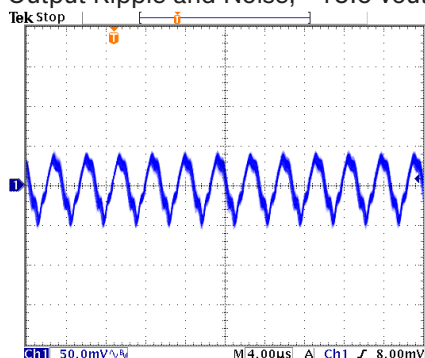
Typical Output Ripple and Noise, -12.0 Vout



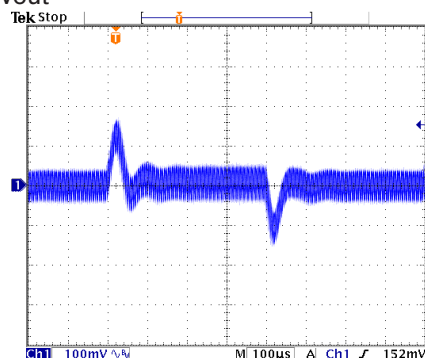
Transient Response to Dynamic Load Change (50%)  
-12.0 Vout



Typical Output Ripple and Noise, -15.0 Vout

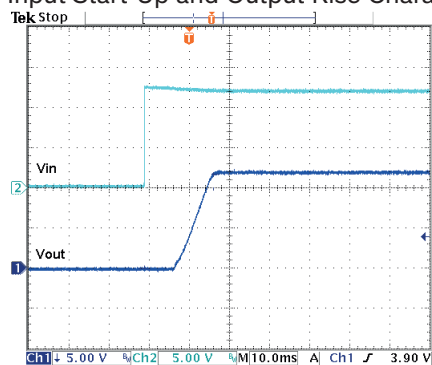


Transient Response to Dynamic Load Change (50%)  
-15.0 Vout



**TSR 3-24150(A) (negative Output)**

Typical Input Start-Up and Output Rise Characteristic



Remote on/off Voltage Start-Up Characteristic

