Material name :	Evaluation data
Customer's product name :	
TDK product name :	DC-DC converter CC15-2403SF-E , CC15-2403SR-E

TDK·Lambda

TDK Corporation
Power Systems Business Group

DWG.No.	TRSC-1550-2

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＊ The measurement has been done without external output capacitor.

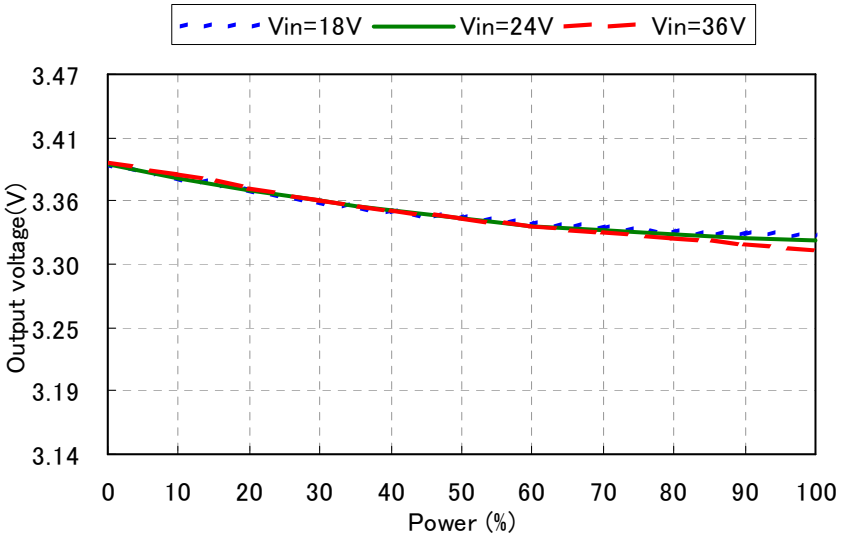
(Product specification)

Product name	Input voltage(V)	Output voltage(V)	Output current(mA)	The maximum output power(W)	Ambient temperature(℃)
CC15-2403SF-E CC15-2403SR-E	18～36	3.3 +5% , -3%	0～4500	14.85	-40 ～ +85 *1

*1 At 50℃ or more, output power derating is necessary.

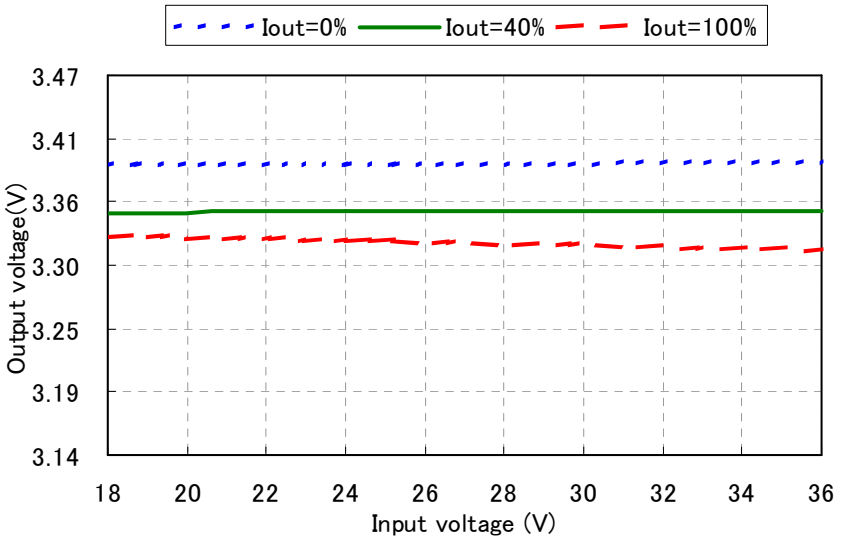
1. Load regulation

Condition Ta : 25℃



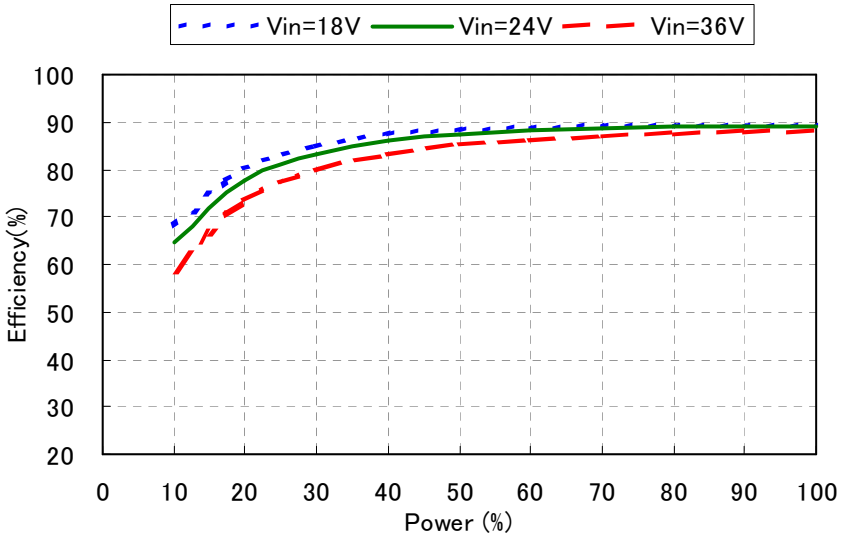
2. Line regulation

Condition Ta : 25℃



3. Efficiency

Condition　　Ta　：　25℃

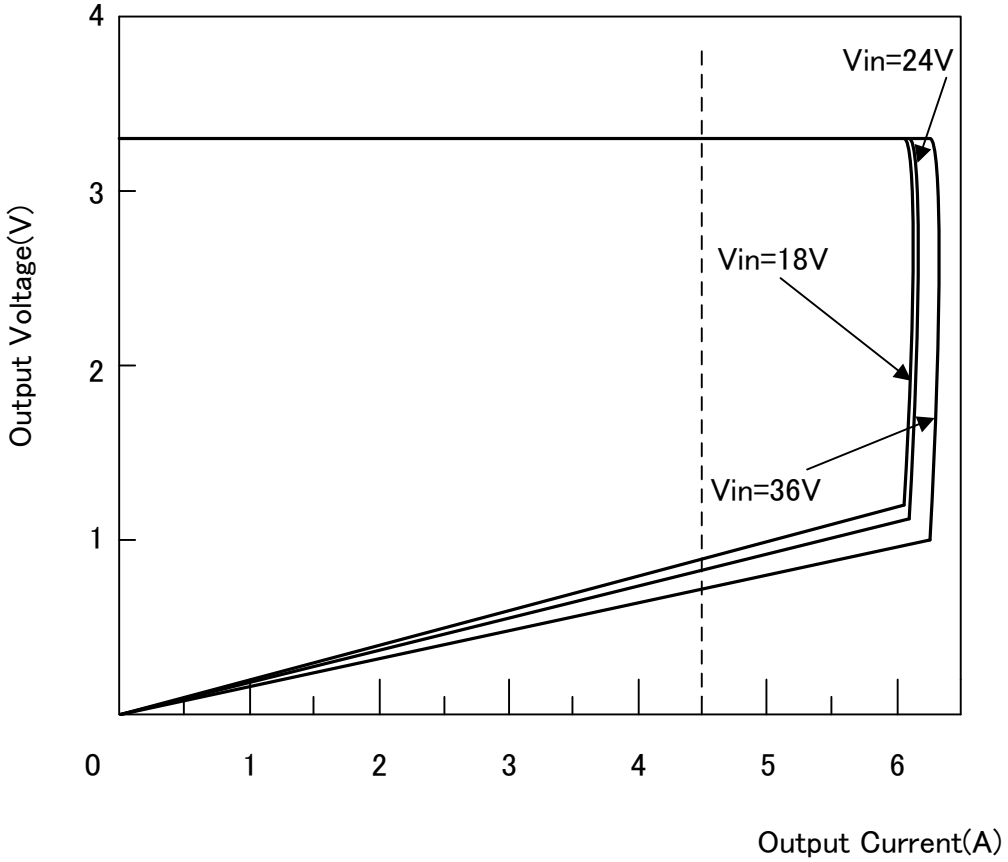


4. Switching frequency vs. output power

Swiching frequency　：　520kHz (Fix)

5. Over current protection characteristics

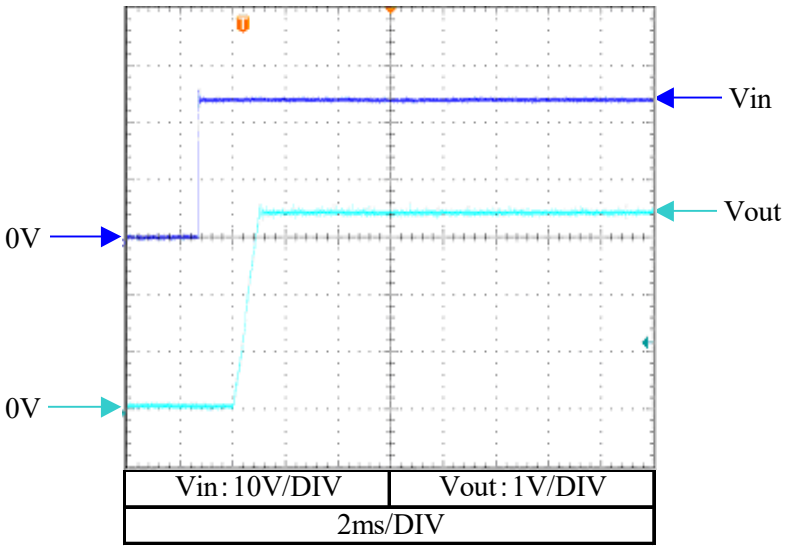
Condition Ta : 25℃



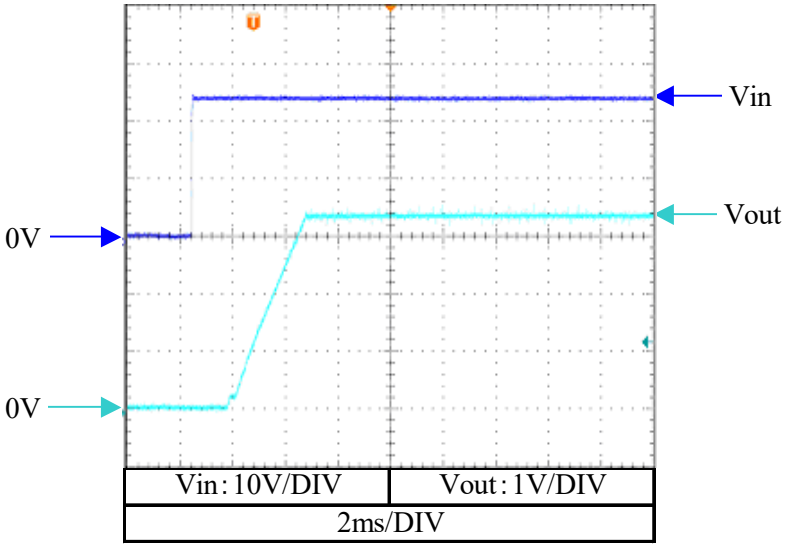
6. Output rise characteristics

Condition　　Vin　:　24V
Ta　:　25℃

Iout　:　0%



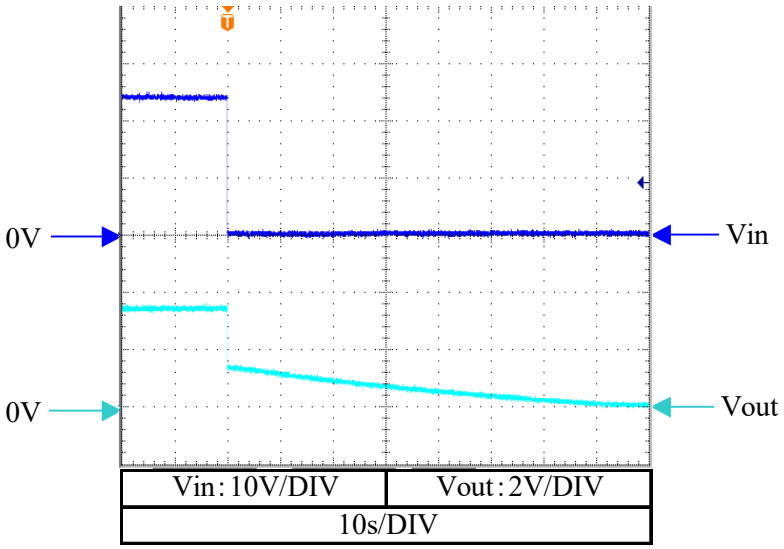
Iout　:　100%



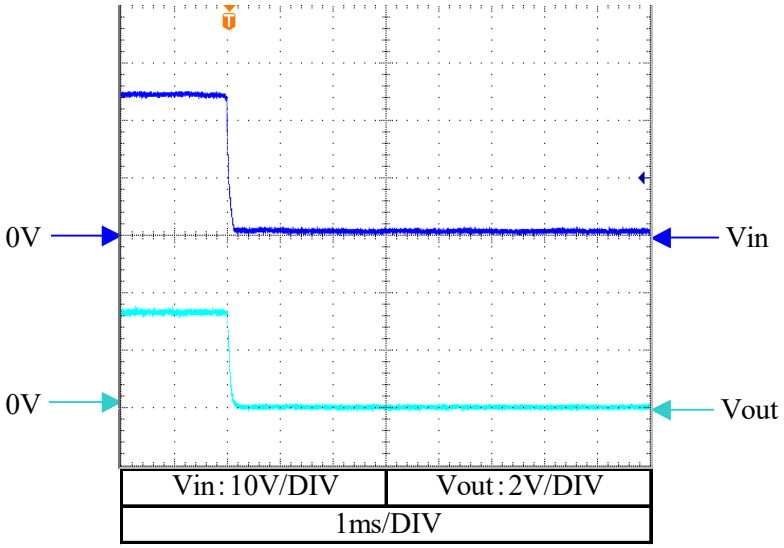
7. Output fall characteristics

Condition　　Vin　:　24V
Ta　:　25℃

Iout　:　0%



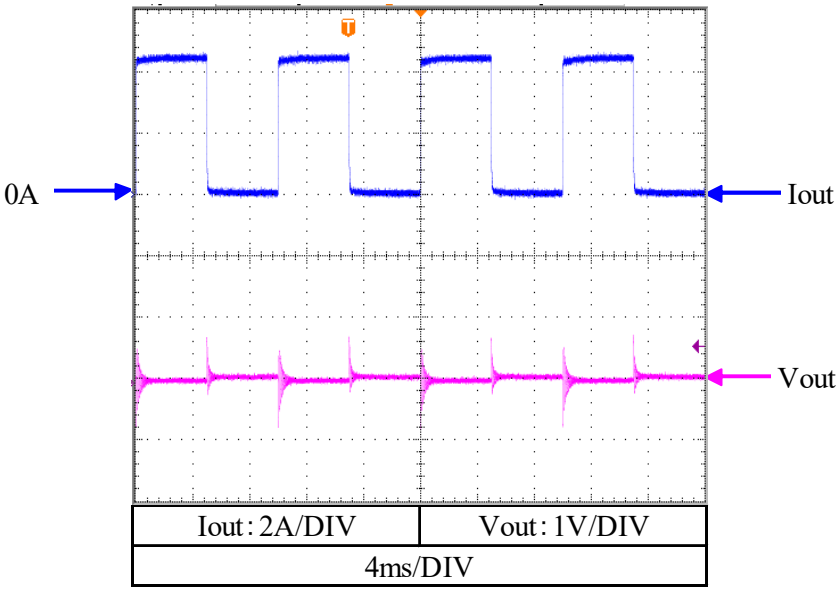
Iout　:　100%



8. Dynamic load response characteristics

Condition

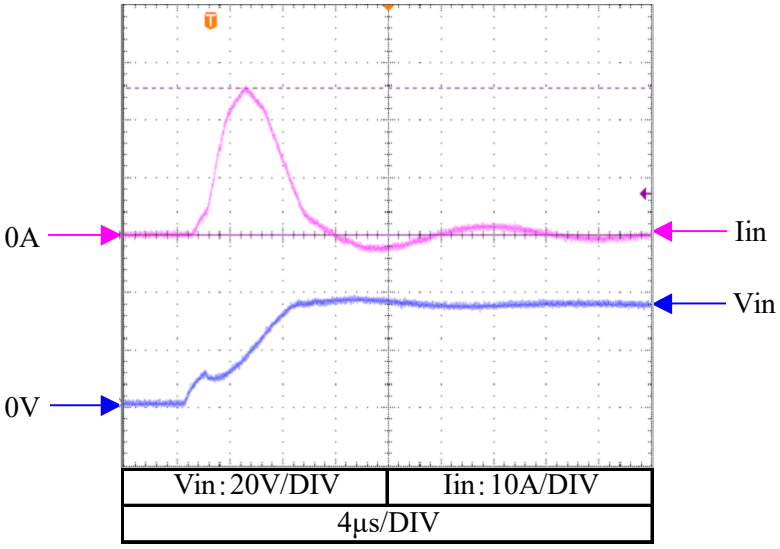
Vin : 24V
Vout : 3.3V
Iout : 0% ⇔ 100%
Tr=Tf : 100 μ s
f : 100Hz
Ta : 25℃



9. Inrush current waveform

Condition

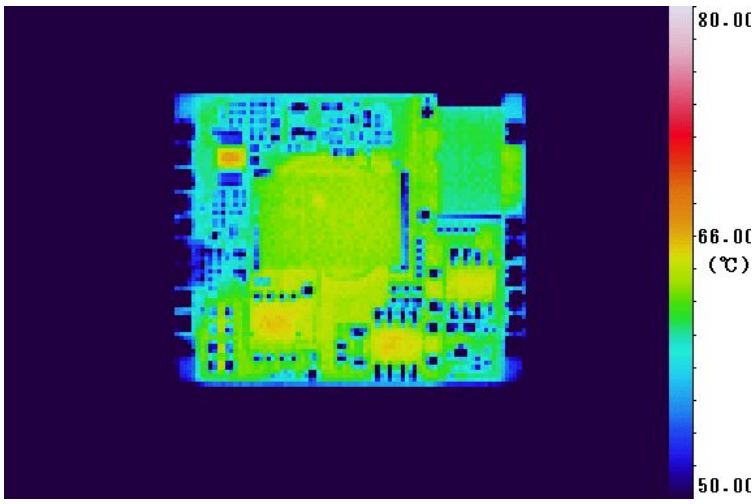
Vin : 36V
Iout : 100%
Ta : 25℃



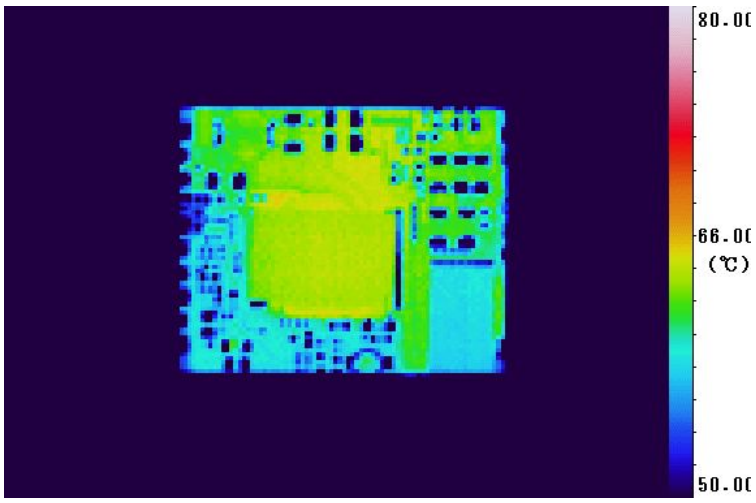
10. Temperature distribution

Condition
Vin : 24V
Vout : 3.3V
Iout : 100%
Ta : 25℃
Wind velocity : 0m/s

Top View



Bottom View



(＊)・This test was done on our evaluation board. (Glass epoxy substrate, Size:100x100x1.6mm)
・We measured the temperatures of parts without the case by using the thermography.
Therefore, it might be different a little from the actual temperature.