



## Important Notice to our Customers

**Product Change Notice #: VI20220114**

**Date: January 14, 2022**

**To Our Valued Customer:**

This is to inform you of specification change to four MVTM36 series and four VTM48 series products.

**PCN Type:**

Change of electrical specification

**Products Affected:**

- MVTM36Bx360M003A00
- MVTM36Bx240M005A00
- MVTM36Bx180M007A00
- MVTM36Bx120M010A00
- VTM48Ex480y006A00
- VTM48Ex320y009A00
- VTM48Ex160y015A00
- VTM48Ex240y012A00

**Proposed Change:**

Electrical specification changes:

Product Number	Specs Change			From			To			Unit
	Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Min	Typ	Max	
MVTM36B360M003A00	Output Resistance (Cold)	ROUT_COLD	T <sub>C</sub> = -40°C, I <sub>OUT</sub> = 3A	55.0	108.0	175.0	30	80	175	mΩ
	Output Resistance (Ambient)	ROUT_AMB	T <sub>C</sub> = 25°C, I <sub>OUT</sub> = 3A	112.0	140.0	168.0	72	100	168	mΩ
	Output Resistance (Hot)	ROUT_HOT	T <sub>C</sub> = 100°C, I <sub>OUT</sub> = 3A	152.0	190.0	228.0	120	160	228	mΩ
VTM48EF480T006A00	Efficiency (Ambient)	η <sub>AMB</sub>	V <sub>IN</sub> = 26 - 55V, I <sub>OUT</sub> = 6.3A	93.3			92.8			%
VTM48EF320T009A00	Efficiency (Ambient)	η <sub>AMB</sub>	V <sub>IN</sub> = 26 - 55V, I <sub>OUT</sub> = 9.4A	93.0			92.5			%

Signal Characteristic changes:

**Datasheet Rev. 1.8, 1.5, 1.5, 1.7 (page 4)**

Product Number	Signal Type	State	Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
VTM48Ex480y006A00	Analog Input	Steady	VC Current Draw	I <sub>vc</sub>	VC = 11.5V, V <sub>IN</sub> > 26V		0		mA
VTM48Ex320y009A00					VC = 16.5V, V <sub>IN</sub> > 26V		0		
VTM48Ex160y015A00		VTM48Ex240y012A00	Transitional	VC to Vout Turn-On Delay	ton	V <sub>IN</sub> pre-applied, PC floating, VC enable, C <sub>PC</sub> = 0μF			500

**Datasheet Rev. 1.9, 1.6, 1.6, 1.8 (page 4)**

Product Number	Signal Type	State	Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
VTM48Ex480y006A00	Analog Input	Steady	VC Current Draw	I <sub>vc</sub>	VC = 11.5V, V <sub>IN</sub> > 26V		22.5		mA
VTM48Ex320y009A00					VC = 16.5V, V <sub>IN</sub> > 26V		32		
VTM48Ex160y015A00		VTM48Ex240y012A00	Transitional	VC to Vout Turn-On Delay	ton	V <sub>IN</sub> pre-applied, PC floating, VC enable, C <sub>PC</sub> = 0μF, C <sub>OUT</sub> = 0μF			500

**Datasheet Rev. 1.4 (page 16)**

Product Number	Signal Type	State	Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
MVTM36Bx360M003A00	Analog Input	Steady	VC Current Draw	I <sub>vc</sub>	VC = 13V, V <sub>IN</sub> = 0V			150	mA
MVTM36Bx240M005A00		Start Up	VC Inrush Current	I <sub>INR_VC</sub>	VC = 16.5V, dVC/dt = 0.25V/μs			750	
MVTM36Bx180M007A00		VTM36Bx120M010A00	Transitional	VC to Vout Turn-On Delay	ton	V <sub>IN</sub> pre-applied, PC floating, VC enable, C <sub>PC</sub> = 0μF, C <sub>OUT</sub> = 4000μF			500

Datasheet Rev. 1.5 (page 16)

Product Number	Signal Type	State	Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
MVTM36Bx360M003A00	Analog Input	Steady	VC Current Draw	I <sub>VC</sub>	V <sub>C</sub> = 13V, V <sub>IN</sub> = 0V			200	mA
MVTM36Bx240M005A00		Start Up	VC Inrush Current	I <sub>INR_VC</sub>	V <sub>C</sub> = 16.5V, dV <sub>C</sub> /dt = 0.25V/μs			2	A
MVTM36Bx180M007A00		Transitional	VC to Vour Turn-On Delay	ton	V <sub>IN</sub> pre-applied, PC floating, V <sub>C</sub> enable, C <sub>PC</sub> = 0μF, C <sub>OUT</sub> = 0μF			500	μs

**Reason for the change:**

For yield improvement.

**Effective Date:**

The new specifications are effective immediately.

**Actions Required:**

Customers should make note of the change and contact Applications Engineering with any questions or concerns.

**Company contact for technical questions:**

Applications Engineering Vicor Corporation  
 25 Frontage Road  
 Andover, MA  
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[apps@vicorpower.com](mailto:apps@vicorpower.com)