



Important Notice to Our Customers

Product Change Notice #: VE191217

Date: December 17, 2019

To Our Valued Customer:

We appreciate your use of Chip DCM's. This is to inform you of a change to how output regulation specifications will be referenced in DCM datasheets.

PCN Type:

Data sheet format change only. There is no change to the device or to the way the part is tested.

Products Affected:

All Enhanced V_{out} Regulation Modes/ Analog Control Interface DCMs. All DCM models ending in 60 and 70.
Example: DCM2322T72S0650T60

Details of the change:

The new format standardizes the "Output voltage regulation" ($\%V_{out-REGULATION}$) specifications table across all DCM model data sheets. While there are no changes to the part itself the new line items provide better characterization on the part at those conditions.

Examples of Format Changes by Model Type:

Original Format - DCM2322 models

Attribute	Symbol	Conditions / Notes	Min	Typ	Max	Unit
Power Output Specifications						
Output voltage regulation	$\%V_{OUT-REGULATION}$	At nominal line, nominal trim, full load and ambient temperature	-0.5		0.5	%
		At nominal line, nominal trim and: • Load >20% of full load and ambient temperature • Full load and over temperature	-1		1	
		At high line, low trim, <10.0% load and low	-1		1	
		All other conditions (does not include light load regulation)	-1.5		1.5	
Output voltage accuracy	$\%V_{OUT-ACCURACY}$	The total output voltage set-point accuracy from the calculated V_{OUT} based on trim. Excludes ΔV_{OUT-LL}	-2.00		2.00	%

Original Format – DCM3623 and DCM4623 models

V_{OUT} accuracy	$\%V_{OUT-ACCURACY}$	The total output voltage setpoint accuracy from the calculated ideal V_{OUT} based on trim. Excludes ΔV_{OUT-LL}	-1.0		1.0	%
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Updated Format - All DCM models

Output voltage regulation	$\%V_{OUT-REGULATION}$	At nominal line, nominal trim, full load and ambient temperature	-0.5		0.5	%
		At nominal line, nominal trim and: • Load >20% of full load and ambient temperature • Full load and over temperature	-1.0		1.0	
		All other conditions (does not include light load regulation)	-2.5		2.5	
Output voltage accuracy	$\%V_{OUT-ACCURACY}$	The total output voltage set-point accuracy from the calculated V_{OUT} based on load, temp and trim. Excludes: • ΔV_{OUT-LL} • $\%V_{OUT-REGULATION}$	-3.0		3.0	%

Product Change Notice #: VE191217 (continued)

Reason for the change:

To provide a clearer representation of output load regulation across all operating conditions.

Effective Date:

The change is effective immediately; all DCM data sheets are expected to be updated to reflect the new format by January 31st 2020.

Actions Required:

No action is needed. Customers should make note of the format change and contact Applications Engineering with any questions or concerns.

Company contact for technical questions:

Applications Engineering Vicor Corporation
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