

TPSM8A29 SIMPLIS Transient Model Features and Limitations

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* Model Usage Notes:
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* A. Features have been modelled
*   1.   Output Voltage Setting
*   2.   Internal Fixed Soft-Start and External Adjustable Soft-start
*   3.   External REFIN for Output Voltage Tracking
*   4.   Frequency and Operation Mode Selection
*   5.   Low-side FET Zero-Crossing
*   6.   Current Sense and Positive Overcurrent Protection (OCP)
*   7.   Low-side FET Negative Current Limit
*   8.   Power Good
*   9.   Over Voltage Protection (OVP)
*  10.   Under Voltage Protection (UVP)
*  11.   Out-Of-Bounds (OOB) Operation
*  12.   Output Voltage Discharge
*  13.   UVLO Protection
*  14.   BOOT functionality
*  15.   Remote Sense
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* B. Features have not been modelled
*   1.   Operating Quiescent Current
*   2.   Shutdown Current
*   3.   Temperature dependent characteristics
*   4.   Ground pins have been tied to 0V internally. Therefore, this model cannot be
*         used for inverting topologies.
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* C. Application Notes
*   1.   To run the POP/AC analysis, you must run complete Startup Transient
*         simulation and then run the AC analysis.
*         Also you must choose "Use snapshot from previous transient analysis" in POP
*         Advanced options.
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