

## TPS62913 SIMPLIS TRANSIENT/AVERAGE 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. External Adjustable Soft-start
- \* 3. External clock synchronization
- \* 4. Current Sense and cycle by cycle current limit (HS & LS)
- \* 5. Power Good
- \* 6. Output Voltage Discharge
- \* 7. Switching frequency setting

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#### \* B. Features have not been modelled

- \* 1. Operating Quiescent Current
- \* 2. Shutdown Current
- \* 3. Temperature dependent characteristics
- \* 4. Spread spectrum

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#### \* C. Application Notes

- \* 1. The parameter STEADY\_STATE has been used to reach the steady state faster.
- \* Keep STEADY\_STATE=0 to observe startup and steady state behavior
- \* Keep STEADY\_STATE=1 and appropriate IC on inductor and capacitor to observe loop response analysis

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