

TPS62912 SIMPLIS TRANSIENT/AVERAGE Model _Features and Limitations

* 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
