

Design Tools

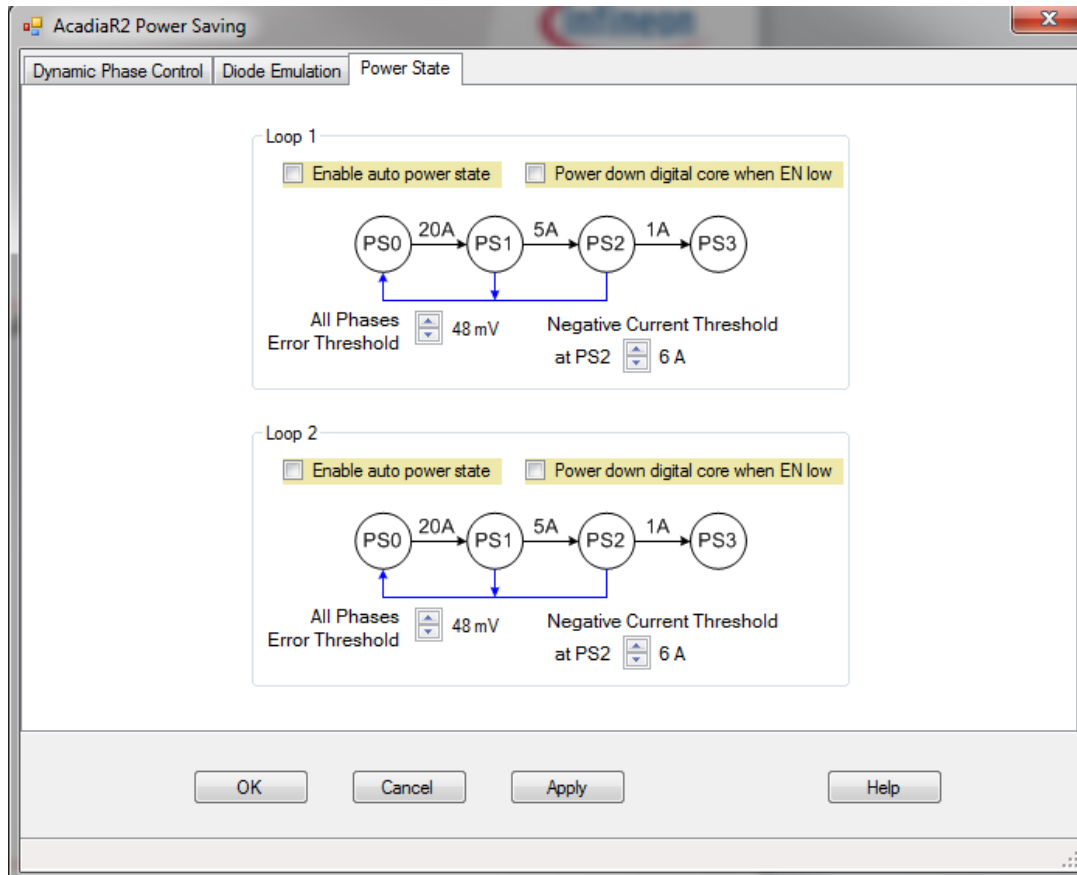
Power Saving



7. Power Saving

Power Saving Mode, Diode Emulation, Current Threshold

Use this tool to control phases, diode emulation, and power saving states when the device is running light load.



Power State Explanation

Acadia uses power states to set power saving modes. User can let the controller autonomously step through the power states based on output current

PS0 – Full power operation, all phases are operating.

PS1 – Light load (<20A), 1-2 phase operation

PS2 – Very light load (<5A), 1 phase operation in diode emulation

PS3 – Idle Load (<1A), 1 phase operation in diode emulation with additional disabling of internal current sense amplifiers within the controller.