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NCP1126DIPGEVB: 15W Offline Power Supply High Voltage Switcher Evaluation Board

The NCP1126 switcher offers everything needed to build reliable and compact AC-DC switching power supplies with minimal surrounding elements. Incorporating an avalanche rated 650 V MOSFET, converters built with the NCP112X can be safely designed for international conditions without jeopardizing the overall reliability. The NCP112X implements peak current mode control with adjustable ramp compensation that ensures stability in Continuous Conduction Mode (CCM) operation. With an external resistor, the maximum peak current is adjustable, allowing the designer the ability to inject ramp compensation to stabilize CCM power supplies. A short circuit fault condition is independently detected from the auxiliary winding voltage resulting in improved short circuit protection with true overload detection. The Source pin provides access to the MOSFET source, allowing for overpower compensation. With a supply range up to 26 V, the switcher also provides a jittered 65 kHz or 100 kHz switching frequency operated in peak current mode control. When the power on the secondary side starts to decrease, the switcher automatically folds back its switching frequency down to a minimum level of 26 kHz. As the power further goes down, the part enters skip cycle while limiting the peak current.



Evaluation/Development Tool Information					
Product	Status	Compliance	Short Description	Parts Used	Action
NCP1126DIPGEVB	Active	Pb-free	15W Offline Power Supply High Voltage Switcher Evaluation Board	NCP1126AP100G	Contact Local Sales Office Inventory

Technical Documents			
Type	Document Title	Document ID/Size	Rev
Eval Board: BOM	NCP1126DIPGEVB Bill of Materials ROHS Compliant	NCP1126DIPGEVB_BOM_ROHS.PDF - 54.0 KB	0
Eval Board: Gerber	NCP1126DIPGEVB Gerber Layout Files (Zip Format)	NCP1126DIPGEVB_GERBER.ZIP - 105.0 KB	0
Eval Board: Schematic	NCP1126DIPGEVB Schematic	NCP1126DIPGEVB_SCHEMATIC.PDF - 122.0 KB	0
Eval Board: Test Procedure	NCP1126DIPGEVB Test Procedure	NCP1126DIPGEVB_TEST_PROCEDURE.PDF - 81.0 KB	0
Video	Offline Power Supply Solutions with the NCP1126DIPGEVB Evaluation Board	TND6081/D	1

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Featured Video

Offline Power Supply Solutions with the NCP1126DIPGEVB Evaluation Board

Full screen is unavailable. [Learn More](#)

Set the output load to 1.25 amps for 120VAC or 2.5A for the 230V. Check the efficiency. 60% ~ 70% (load a loadPin. It should be greater than 70%).

Continue to increase the load slowly and the overcurrent protection should kick in between 3 and 2.5 amps for the 120VAC and 4 to 3A for the 230V. The should result in a "fold up" mode stop type of operation.

Set the load back to 1.25 amps (120VAC) or 3A (230V) and the power supply should recover with proper output voltage.

Adjust the electronic load back to zero, switch the load off, and check the input power (standby power). It should be below 100 mW.

Adjust the AC input to 250 VAC and repeat from step 1. (exception of 25)

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