

NOTES:
LINE INPUT VOLTAGE: 195VRMS - 265VRMS, 47Hz - 63Hz
PEAK INPUT CURRENT: 7.0A

OUTPUT VOLTAGE: 390VDC nominal
MAXIMUM OUTPUT POWER: 900W

Mount R28 and C21 only when Ultra-fast Diode is used for D1
Suggested UF Diode for D1: BYV29FX-600

Bleeder Resistor to discharge output
When unit is turned-off

CURRENT LIMIT RESISTOR BYPASS CIRCUIT

Switch ON delay 0.2s

BOOST FOLLOWER CONTROL CIRCUIT

PFC SHUTDOWN CIRCUIT

NOTES:
For Boost Follower Configuration:
Populate R14 and Q4 and set R9 = 21.5k
Populate R5 = 0.2 Ohm


For Fixed Output Boost PFC configuration
Do not populate R14 and Q4 and Set R9 = 13k
Do not populate R5

Recommended to use TIDA-00434 Design for Bias Supply Needs

Orderable: TIDA-00443	Designed for: Public Release	Mod. Date: 6/3/2015
TID #: TIDA-00443	Project Title: 900W PFC Pre-Regulator for Inverter Fed Drives	
Number: TIDA-00443	Rev: E1	Sheet Title:
SVN Rev: Version control disabled	Assembly Variant: [No Variations]	Sheet: 1 of 2
Drawn By: Latif Ameer	File: TIDA-00443_REVB.SchDoc	Size: B
Engineer: Latif Ameer	Contact: http://www.ti.com/support	http://www.ti.com
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H7




NY PMS 440 0025 PH

H8




NY PMS 440 0025 PH

H9



NY PMS 440 0025 PH

H10



NY PMS 440 0025 PH

H1



SJ-5303 (CLEAR)

H2




SJ-5303 (CLEAR)

H3



SJ-5303 (CLEAR)

H4



SJ-5303 (CLEAR)



FID1



FID2



FID3



FID4

PCB Number: TIDA-00443

PCB Rev: E2

PCB

LOGO

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PCB

LOGO

Pb-Free Symbol

A You should delete the nylon screws/standoffs and/or the bumpons as needed for your design (or substitute other parts from Hardware.IntLib). Bumpons are cheaper, but provide less clearance.

Deleting anything else from this page may result in your EVM submission being rejected (until you add them back).

Update the Label Text in the Label Table as needed for each Assembly Variant.

You can delete this note too.

Label Table

Variant	Label Text
001	ChangeMe!
002	ChangeMe!

ZZ1

Label Assembly Note

This Assembly Note is for PCB labels only

ZZ2

Assembly Note

These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3

Assembly Note

These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4

Assembly Note

These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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