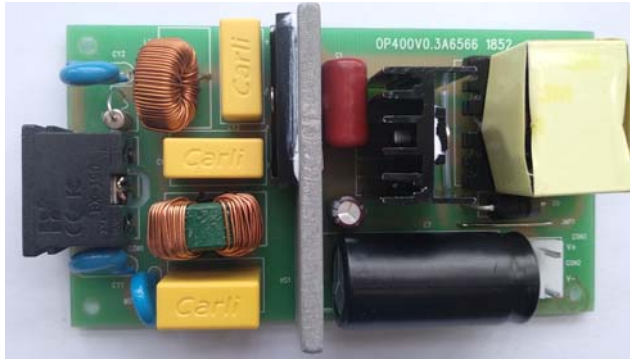


Subject
OB6566 Demo Board Manual

Board Model: OP400V0.3A6566.01
 Doc. No.: OB_DOC_DBM_656601



Key features:

- Transition Mode (TM) Operation
- Works without Transformer ZCD Winding
- Low Start-up Current and Operating Current
- Cycle-by-Cycle Current Limiting
- Dynamic OVP & Static OVP function
- System Open Loop Protection
- Inductor short protection
- Very Precise Adjustable Output Overvoltage Protection

Revision History

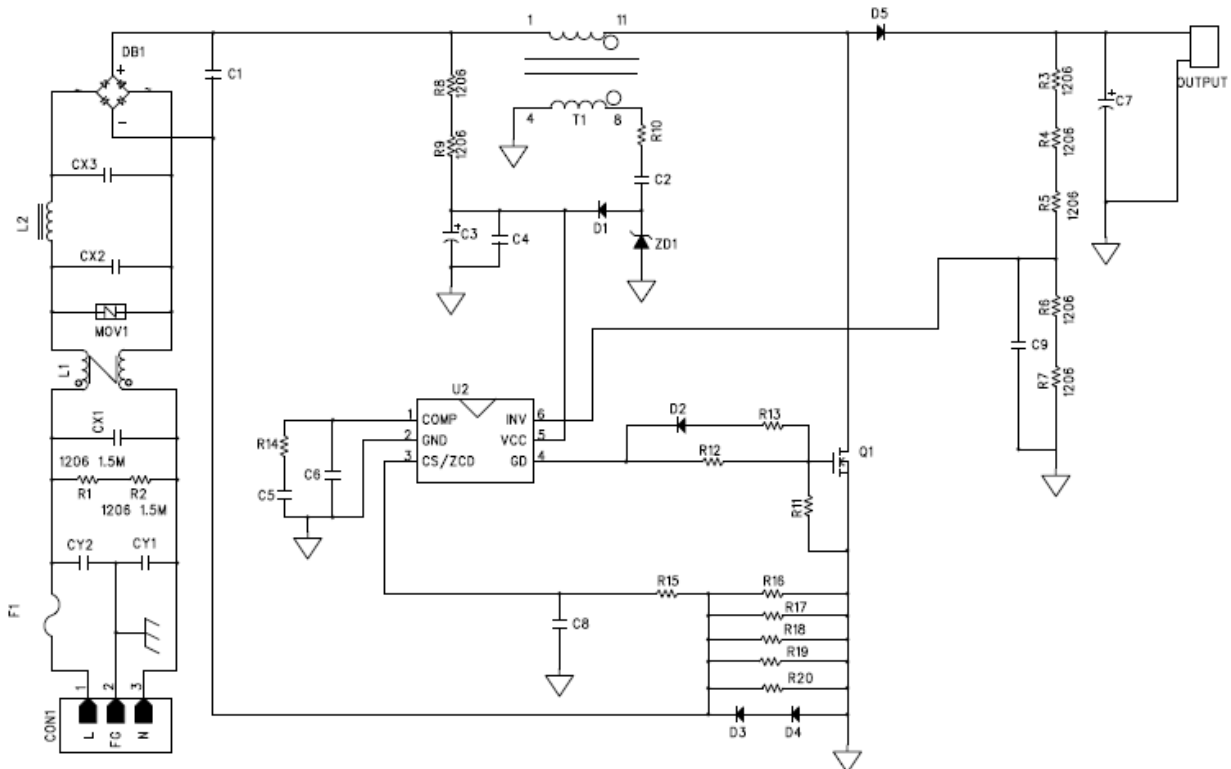
Revise Date	Version	Reason/Issue
2017-02-28	00	
2019-05-27	01	Performance improved

1 System Specifications and Test Results

Items	Specifications & Test Conditions	Test Results
1. Input Characteristic		
Input Voltage Range	90Vac to 264Vac @ Full load	PASS
AC Input Frequency	47Hz to 63Hz @ Full load	PASS
Maximum input current	2.0 A Max. @ 90Vac, Full load	1.4A
Input power factor	>0.9 @ Full load, 90~264Vac	Min. 0.955
Input current THD	<10% @ Full load, 90~264Vac	Max. 6.93%
Efficiency	>90% @ Full load, 90~264Vac	93.92%
2 .Output Characteristic		
Output Voltage	400±10V @ 0~100% load, 90~264Vac	PASS
Line regulation	<1% @ 0~100% load, 90~264Vac	PASS
Load regulation	<5% @ 0~100% load, 90~264Vac	PASS
Output Current Range	0 to 0.2A @ 90~264Vac	PASS
Ripple voltage	<20Vp-p Max. @ 0~100% load, 90~264Vac	Max. 11V
Output Voltage Overshoot	Peak Output Voltage<450V @ 0~100% load, 90~264Vac	Max. 430V
Note: All data was measured at PCB end if not otherwise noted.		

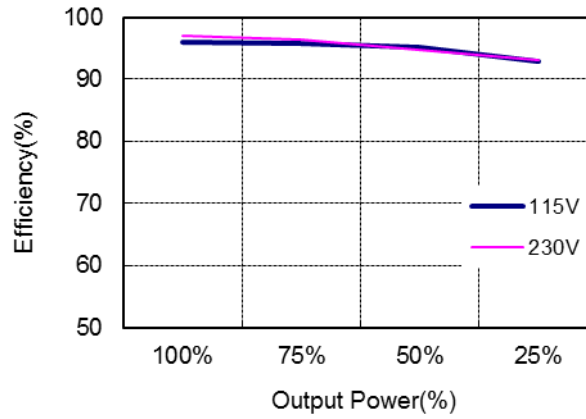
2 System Information

2.1 Schematic

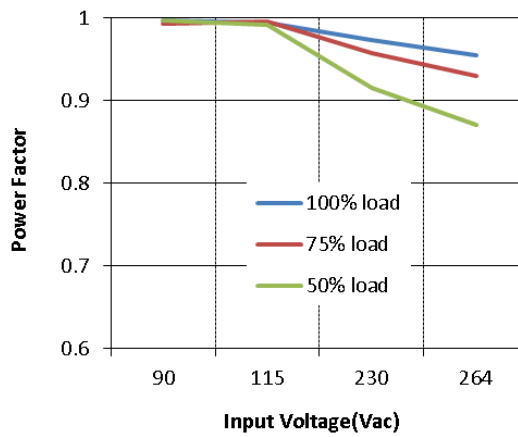


3 Performance Evaluation

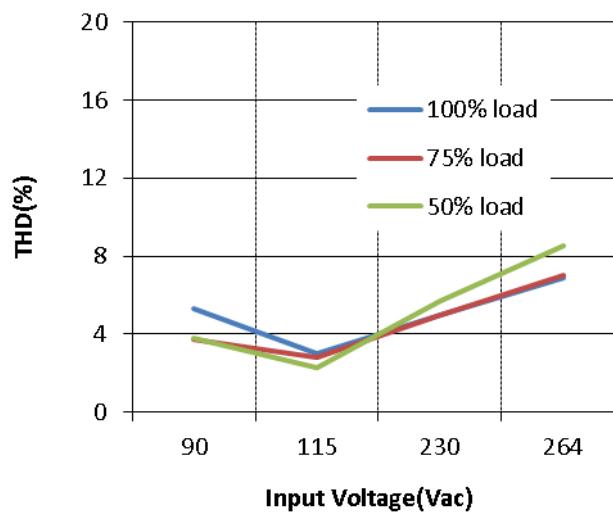
3.1 Efficiency



3.2 Power Factor



3.3 Total Harmonic Distortion



Disclaimer

On-Bright Electronics reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its documents, products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete.

This document is under copy right protection. Non of any part of document could be reproduced, modified without prior written approval from On-Bright Electronics.