



## Test Procedure for the NCL30188FLYGEVB

### Overview

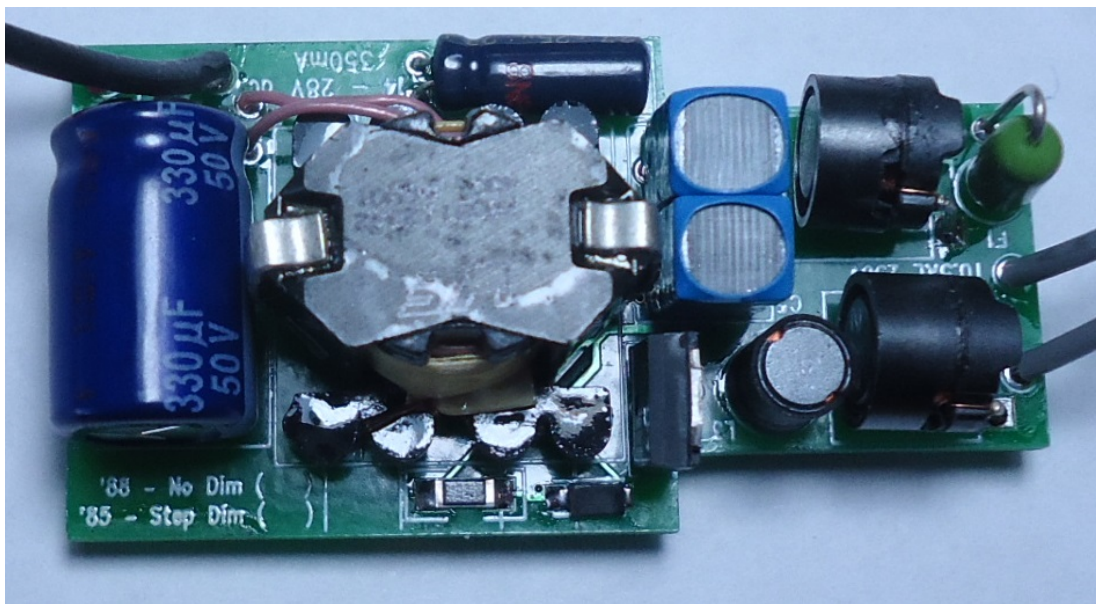
This procedure describes the functional testing of NCL30188FLYGEVB LED driver using a flyback PFC.

### Basic Specifications

Input Voltage – 90 V ac to 265V ac Input Frequency – 50/60 Hz

Output Voltage – 14 V dc to 28 V dc

Output Current – 350 mA dc Nominal





### Equipment Needed

- AC Source – 90 V ac to 265 V ac 50/60 Hz Minimum 1A ac capability
- AC Wattmeter – 30 W Minimum, True RMS Input Voltage and Current, Power Factor 0.2% accuracy or better
- DC Voltmeter – 200 V dc minimum 0.1% accuracy or better
- DC Ammeter – 0.5 A dc minimum 0.1% accuracy or better
- LED Load – 14 V dc to 28 V dc rated for at least 1000 mA dc operation

### Test Set Up

1. Connect the Unit Under Test (UUT) per the test set up in Figure 1.

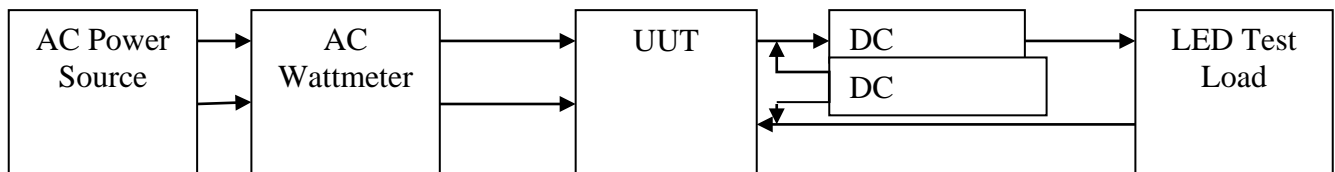


Figure 1. Test Set Up

**Note:** Unless otherwise specified, all voltage measurements are taken at the terminals of the UUT.

### Functional Test Procedure

NCL30188FLYGEVB

Connect the UUT per figure 1.

Test Condition	Test Variable	Test Limits		Pass / Fail (Circle One)
		Min	Max	
Vin = 90 V ac Vout = 28 V dc	Output Current	332mA	368mA	Pass / Fail
Vin = 120 V ac Vout = 28 V dc	Output Current	332mA	368mA	Pass / Fail
Vin = 265 V ac Vout = 28 V dc	Output Current	332mA	368mA	Pass / Fail
Vin = 265 V ac Vout = 28 V dc	Power Factor	0.90		Pass / Fail
Vin = 120 V ac Vout = 28 V dc	Input Power		13W	Pass / Fail