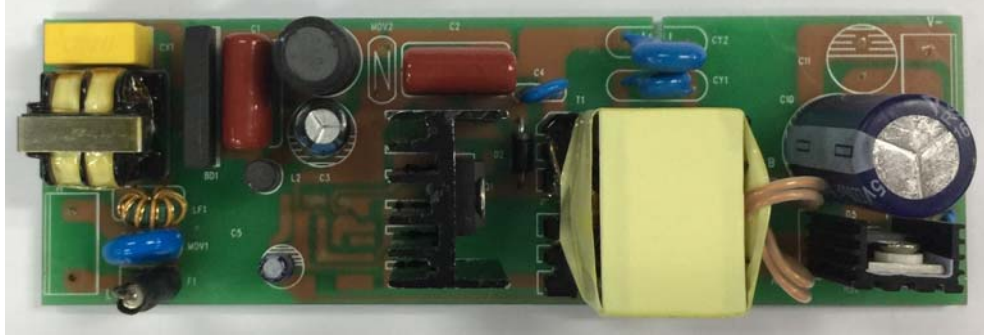| Subject **OB3636A Demo Board Manual**	Board Model: LD24V2.5A3636.00 Doc. No.: OB_DOC_DBM_3636A00

Key Features

- Isolated and primary-side constant voltage controller with $\pm5\%$ regulation

- Efficiency more than 85%@115/230Vac,full load

- Turn on delay time<1Sec.@90Vac,full load

- Power factor >0.95 and THD<10% @full load

- No load standby power under 500mW@264Vac

- EMI passed EN55022 and FCC Part15 Class B test with more than 6dB margin

- Surge passed 2kV differential mode and 4kV common mode

Revision History

Revise Date	Version	Reason/Issue
2018-10-10	00	First issue

2 Module Information

2.1 Schematic

2.4 Module Snapshot
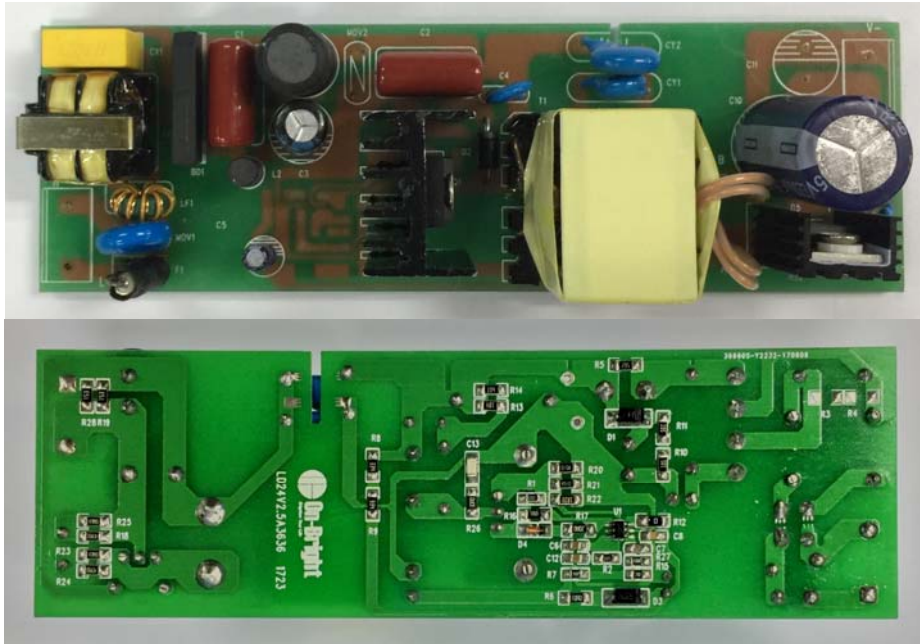
Length : width : height=137mm : 43mm : 26m

3 Performance Evaluation

Performance Highlights

- No load standby power under 500mW@264VAC
- Efficiency more than 87%@115VAC&230VAC,Full load
- EMI passed EN55022 and FCC Part15 Class B test with more than 6dB margin.

Characterization Results Summary

Test Item	Test result
1. Input characteristics	
Standby power at no load (264Vac)	414mW
Efficiency (115/230Vac, Full load)	87.28%/88.74%
2 .Output characteristics	
Line regulation	±0.31%
Load regulation	±0.93%
Ripple (Full load)	4.2V
Over shoot	0%
3. Time sequence (90Vac, Full load)	
Turn on delay time	0.97Sec.
4. Protections	
Short circuit protection	OK
Over voltage protection	OK
Over current protection	OK
Over temperature protection	OK

Disclaimer