## 60W CV Module Using OB3636A

LD24V2.5A3636.00

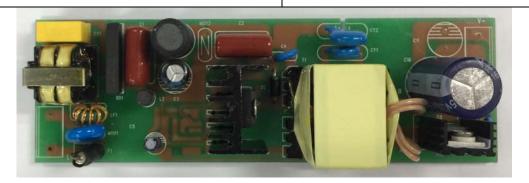


Subject

### **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  $\pm 5\%$  regulation
- Efficiency more than 85%@115/230Vac,full load
- Turn on delay time<1Sec.@90Vac,full load</li>
- Power factor >0.95 and THD<10% @full load</li>
- 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

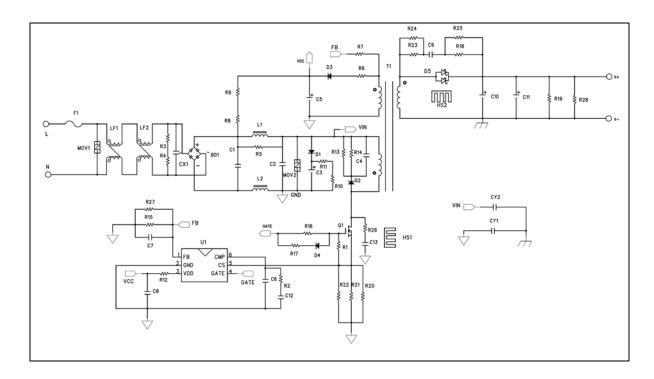
## **Revision History**

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

LD24V2.5A3636.00

# 2 Module Information

## 2.1 Schematic





# 2.2 Module Snapshot



Length: width: height=137mm: 43mm: 26mm

LD24V2.5A3636.00

## 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		

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