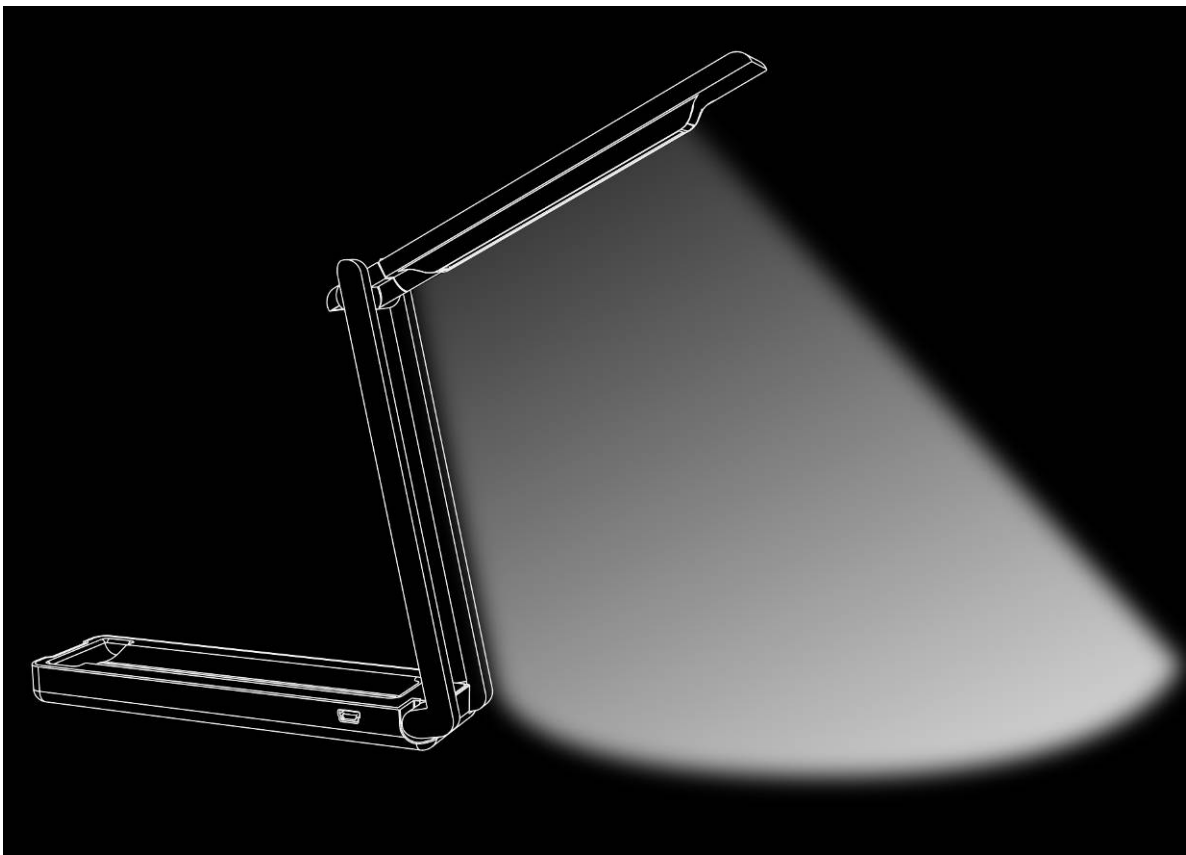


Product Identification

Cobra Power Bank Lamp



Issued by: Rose Wu

Rev : 0.7	Type : Mini Lamp	Cobra Power Bank
Date : 2010-11-02	Brand :	Page : Page 1 of 6

Lumian Design, Inc.

Revision History

Ver.	Date (yy.mm.dd)	Author	Brief Description
0.1	2010.03.27	Rose Wu	1 st Draft
0.2	2010.03.29	Rose Wu	2 nd Modification
0.3	2010.03.30	Rose Wu	3 rd Modification
0.4	2010.06.22	Rose Wu	4 th Modification
0.5	2010.08.03	Rose Wu	5 th Modification
0.6	2010.08.10	Rose Wu	6 th Modification
0.7	2010.11.02	Richard Hsieh	7 th Modification

CONTENTS

DIMENSION	3
PRODUCT FEATURES.....	3
PRODUCT FUNCTION.....	4
PRODUCT SPECIFICATIONS	4
CONTENTS INSPECTION.....	5
CERTIFICATION.....	5
MECHANICAL CHARACTERISTICS	5
ENVIRONMENT CHARACTERISTICS.....	6

Rev : 0.7

Type : Mini Lamp

Cobra Power Bank

Date : 2010-11-02

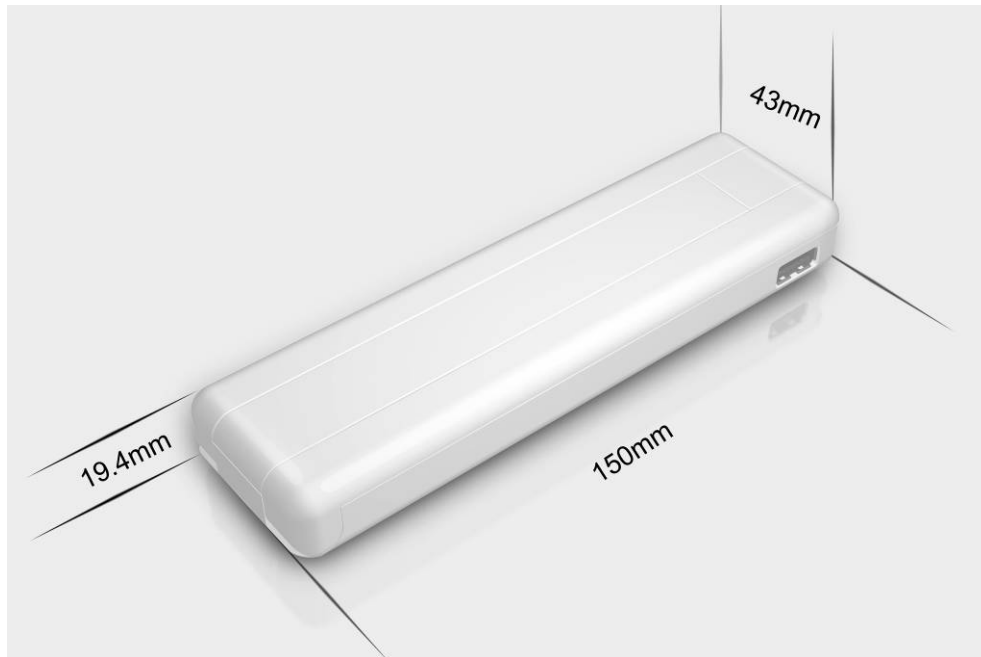
Brand :

Page : Page 2 of 6

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Dimension



Product Features

1. Outstanding Fixture Design

- Simple, slim and fashionable.
- New solid-state lighting source.
- Excellent mixture of high-end lighting technology and High-class taste.

2. Ergonomic & Ecologic

- Comfortable light source.
- No hazardous substance, such as mercury.
- No direct & reflected glare or flicker of light.
- No UV radiation avoids any skin injury.
- No IR radiation prevents heating-up the surface of object.

3. Reliability

- Provide a long service life operation.

4. Optical Characteristics

- Provide 500 Lux distance of light luminance.
- Color rendering closes to natural light.
- Unique optical micro Lens design.
- Use low power dissipation and high brightness LED.

5. Electronic Characteristics

- Use high efficient switching power supply for energy saving.

Rev : 0.7

Type : Mini Lamp

Cobra Power Bank

Date : 2010-11-02

Brand :

Page : Page 3 of 6

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- Electromagnetic Interference protection.
- Multiple power supply ways: USB, and chargeable Ni-HM battery.

6. Mechanical Functions

- Smart design and space saving: use hinge for easily opening and folding.
- Long-life hinge: more than 10,000 times open and fold
- Power on and off automatically
- Adjustable lighting scope: the top hinge can open to 180~225 degree and it can rotate 270 degree.

Product Function

- For Lighting
- For Notebook & E-book operation
- For iPhone 3G/3GS/4G Charging

Product Specifications

Electronic specifications

- Power input: DC 5V/450mA (USB Mode)
Ni-MH battery 4V~6V/190mA~120mA (+/- 10%) – Drive lamp
Ni-MH battery 4.3V~5.5V /850mA ~600mA – For iPhone charge
DC 9V/190mA when light off – For battery charge
DC 9V/90mA when light on – For battery charge
- Total power consumption: $\leq 2.5W$ (typical value)
- Battery specification: 4 × AAA 900mAh
- Battery driver LED lamp time: $\geq 4H$ (when battery electric is not less than 80%)
- iPhone charge time: $\leq 15Min$ (when battery electric is not less than 80%)
- Battery full charge time: 8H when light on
4H when light off
- ESD Level: air +/-8kv contact +/-4kv
- Lifetime: 25,000 Hours
- Operation temperature: -20 °C~45 °C

Optical specifications

- LED Quantity: 15PCS + 1PCS (Battery charge indicator)
- LED color Temp (typical): 6500K (+/- 10%)
- Luminous flux: 55 lumens (+/- 10%, USB)
- Battery charged indicator: LED turns blue when charged, and it turns off when battery fully charged

Mechanical Specifications

- Lamp body material: PC

Rev : 0.7

Type : Mini Lamp

Cobra Power Bank

Date : 2010-11-02

Brand :

Page : Page 4 of 6

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- Power switch: Magnetic IC
- Power ON/OFF: On when lamp Open to $35^{\circ} \pm 5^{\circ}$ degree and Off when less than $25^{\circ} \pm 5^{\circ}$ Degree
- Lighting scope: Top hinge can open to 180~225 degree and 270 degree rotate

Contents Inspection

- Unit x1
- Power supply USB Cable(300mm) x1
- Converter x1
- User manual x1

Certification

- CE (EMC)
- FCC
- C-tick
- Others (TBD)

Mechanical characteristics

- Cosmetic : Foxconn ID
- Mechanical data files : Pro/E files required
- RoHS required
- If paint is used :
 - ROHS required
 - WEEE require
- Plastic mold tooling
 - Tooling to be designed to minimize cosmetic defects induced by molding process (sink, blush, weld lines, gate marks, ejector marks, etc.).
- Plastics flammability
 - All Plastics to be Flame Retardant UL 94-HB or Better
- Label
 - Regulatory label / Carton label
- Product dimension / Weight
 - Unit dimension : 150mm x 43mm x 19.4mm (L x W x H)
 - Unit weight: 89g (TBD)
 - Gross weight: 158g(TBD)
 - Inner Packed unit dimension (Printed Box) : 203mm x 83mm x 32mm (L x W x H) (TBD)
 - Packing method: 30 in 1 cartoon (TBD)
 - Cartoon inner dimension : 342mm x 254mm x 225mm (L x W x H) - TBD
 - Cartoon outside dimension : 360mm x 270mm x 250mm (L x W x H) - TBD
 - Gross Weight : 6000g(TBD)

Rev : 0.7

Type : Mini Lamp

Cobra Power Bank

Date : 2010-11-02

Brand :

Page : Page 5 of 6

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Environment characteristics

- Operating
 - Temperature : -20 to 45 degree C (USB)
 - Humidity : 0 to 85%
 - Altitude : 0-3000m
 - Air pressure : 700-1100mBAR
- Storage
 - Temperature : -40 to 70 degree C
 - Humidity : 85%
 - Altitude : 0-12192m
 - Air pressure : 190-1100mBAR
- Reliability
 - LED MTBF : 36,000 hrs

Rev : 0.7

Type : Mini Lamp

Cobra Power Bank

Date : 2010-11-02

Brand :

Page : Page 6 of 6

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