



**BRIGHTSTARTW**

***E-MARK***

***&***

***DOT***

***MULTIFUNTION LED LIGHTS***



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# E-MARK & DOT APPROVAL LED HEADLIGHT

E-BIKE / MOPED / MOTOR TRICYCLE / QUADRICYCLE



**E-MARK APPROVED**  
**R113 EMC**  
**CLASS C**

**HIGH BEAM**

**LOW BEAM**

**Daytime Running Light**

## E1 & E2

**E-MARK APPROVED**  
**R149 R148 EMC**  
**CLASS C**

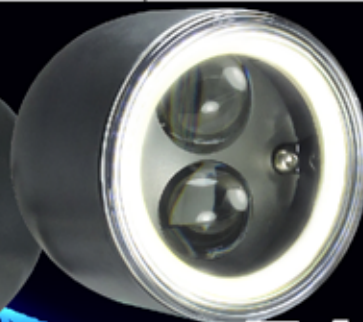
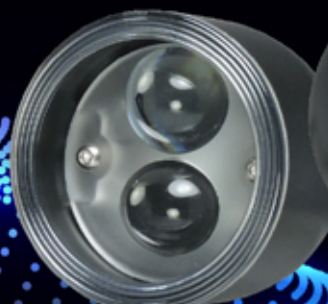
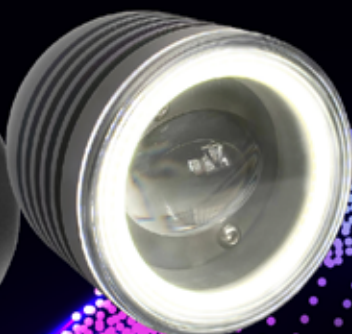
**HIGH BEAM**

**LOW BEAM**

**POSITION Light**

## E6

| SPECIFICATIONS             | E1 & E2                     | E6                          | Color Temperature     | 6000K±500K                         |
|----------------------------|-----------------------------|-----------------------------|-----------------------|------------------------------------|
| Inside Chip                | Osram Chip                  | Osram Chip                  | Input Voltage         | 12-72VDC<br>Custom Volt: 12-120VDC |
|                            | LOW BEAM : 13W              | LOW BEAM : 13W              | Weatherproof          | IP68 (1M)                          |
|                            | High Beam : 14W             | High Beam : 14W             | Housing               | Aluminum Alloy (CNC)               |
| Luminous Flux (Raw Lumens) | *DRL : 5W                   |                             | Operating Temperature | -20°C ~ +60°C                      |
|                            | LOW BEAM : 1250 LM(330 lx)  | LOW BEAM : 1250 LM(330 lx)  |                       |                                    |
|                            | High Beam : 1550 LM(420 lx) | High Beam : 1550 LM(420 lx) |                       |                                    |
|                            | *DRL : 400 LM               | POSITION LIGHT : 200 LM     |                       |                                    |



## E3

**LOW BEAM**

**Daytime Running Light**

**E-MARK APPROVED**  
**R113 EMC**  
**CLASS C**

## E5

**LOW BEAM**

**Position Light**

## E9

**LOW BEAM**

**HIGH BEAM**

**E-MARK APPROVED**  
**R149 EMC**  
**CLASS B**

## E10

**LOW BEAM**

**HIGH BEAM**

**Position Light**

\*DRL : Daytime Running Light

| SPECIFICATIONS             | E3                                 | E5                                 |
|----------------------------|------------------------------------|------------------------------------|
| Inside Chip                | Osram Chip                         | Osram Chip                         |
|                            | LOW BEAM : 12W                     | LOW BEAM : 12W                     |
|                            | *DRL : 3W                          | POSITION LIGHT : 1W                |
| Luminous Flux (Raw Lumens) | LOW BEAM : 1200 LM(300 lx)         | LOW BEAM : 1200 LM(300 lx)         |
|                            | *DRL : 200 LM                      |                                    |
|                            |                                    |                                    |
| Color Temperature          | 6000K±500K                         |                                    |
| Input Voltage              | 12-60VDC<br>Custom Volt: 12-120VDC | 12-72VDC<br>Custom Volt: 12-120VDC |
| Weatherproof               | IP67                               |                                    |
| Housing                    | Aluminum Alloy (CNC)               |                                    |
| Operating Temperature      | -20°C ~ +60°C                      |                                    |

| SPECIFICATIONS             | E9                                      | E10                                 |
|----------------------------|-----------------------------------------|-------------------------------------|
| Inside Chip                | Osram Chip                              | Osram Chip                          |
|                            | LOW BEAM : 7W                           | LOW BEAM : 7W                       |
|                            | HIGH BEAM : 9W                          | HIGH BEAM : 9W                      |
| Luminous Flux (Raw Lumens) | LOW BEAM : 800 LM (200 lx)              | POSITION LIGHT : 1W                 |
|                            | HIGH BEAM : 1000 LM (250 lx)            |                                     |
|                            |                                         |                                     |
| Color Temperature          | 6000K±500K                              |                                     |
| Input Voltage              | 6V / 12-60VDC<br>Custom Volt: 12-120VDC | 6V / 12VDC<br>Custom Volt: 6-120VDC |
| Weatherproof               | IP68(1M)                                |                                     |
| Housing                    | Aluminum Alloy                          |                                     |
| Operating Temperature      | -20°C ~ +60°C                           |                                     |





| SPECIFICATIONS                | E7                                    |         |           |                |                  |
|-------------------------------|---------------------------------------|---------|-----------|----------------|------------------|
|                               | LOW                                   | HIGH    | FOG LIGHT | POSITION LIGHT | CORNERING LIGHTS |
| Inside Chip<br>OSRAM Chip     | 18W                                   | 36W     | 13W       | 3W             | 10W              |
| Luminous Flux<br>(Raw Lumens) | 1800 LM                               | 3600 LM | 1300 LM   | 300 LM         | 1000 LM          |
| Input Voltage                 | 12-60 VDC<br>12-120 VDC( Custom-Volt) |         |           |                |                  |
| Housing                       | Aluminum Alloy                        |         |           |                |                  |

LOW BEAM  
18W  
ECE R149

HIGH BEAM  
36W  
ECE R149

AUX LIGHT  
Left 10W

POSITION  
&\*DRL 3W  
ECE R148

AUX LIGHT  
Right 10W

FOG LIGHT  
13W  
ECE R149

\*DRL: Daytime Running Light



# E7 MOTORCYCLE HEADLIGHT

E-MARK & DOT 7in1

## 7" LED INTEGRATED MOTORCYCLE HEADLIGHT



# HEADLIGHT E11

E-MARK & DOT DARKBUSTER

E-MARK APPROVED  
R149 EMC  
Class B

| SPECIFICATIONS                | E11                                    |
|-------------------------------|----------------------------------------|
| Inside Chip                   | Osram Chip<br>LOW BEAM : 7W            |
| Luminous Flux<br>(Raw Lumens) | LOW BEAM :<br>800 LM(200 lx)           |
| Color Temperature             | 6000K±500K                             |
| Input Voltage                 | 6V / 12-60VDC<br>Custom Volt: 6-120VDC |
| Weatherproof                  | IP68                                   |
| Housing                       | Aluminum Alloy                         |
| Operating Temperature         | -20°C ~ +60°C                          |



| SPECIFICATIONS       | A1<br>TURN SIGNAL                  | AT1-F<br>FRONT POSITION<br>+<br>TURN SIGNAL |                         | AT5-F<br>FRONT POSITION<br>+<br>TURN SIGNAL |                         | AT1-R<br>REAR POSITION<br>+<br>BRAKE LIGHT<br>+<br>TURN SIGNAL |                |                         | T2<br>REAR POSITION<br>+<br>BRAKE LIGHT<br>+<br>LICENSE PLATE LIGHT |                      |                           |
|----------------------|------------------------------------|---------------------------------------------|-------------------------|---------------------------------------------|-------------------------|----------------------------------------------------------------|----------------|-------------------------|---------------------------------------------------------------------|----------------------|---------------------------|
| Inside Chip          | 1W                                 | 1W                                          |                         | 3W                                          |                         | 1W OSRAM Chip                                                  |                |                         | 1W OSRAM Chip                                                       |                      |                           |
| Color<br>Temperature | TURN<br>SIGNAL LIGHT               | POSITION<br>LIGHT                           | TURN<br>SIGNAL<br>LIGHT | POSITION<br>LIGHT                           | TURN<br>SIGNAL<br>LIGHT | POSITION<br>LIGHT                                              | BRAKE<br>LIGHT | TURN<br>SIGNAL<br>LIGHT | REAR<br>LIGHT                                                       | BRAKE<br>LIGHT       | LICENSE<br>PLATE<br>LIGHT |
|                      | AMBER                              | WHITE                                       | AMBER                   | WHITE                                       | AMBER                   | RED                                                            | RED            | AMBER                   | RED                                                                 | RED                  | WHITE                     |
| Input Voltage        | 6~60VDC<br>6-120 VDC (Custom Volt) |                                             |                         | 12VDC<br>6-120 VDC (Custom Volt)            |                         | 6~60VDC<br>6-120 VDC (Custom Volt)                             |                |                         | 12VDC<br>6-120 VDC (Custom Volt)                                    |                      |                           |
| WATERPROOF           | IP67                               |                                             |                         |                                             |                         |                                                                |                |                         |                                                                     |                      |                           |
| HOUSING              | PLASTIC                            |                                             |                         |                                             |                         |                                                                |                |                         |                                                                     | Aluminum Alloy (CNC) |                           |



| PRODUCT                                                                                                       | E-MARK APPROVED                                              | POWER                                                                                                                           | INPUT VOLTAGE                           | WATER PROOF | MATERIAL                                   | DIMENSIONS                                                  | WEIGHT                  |
|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------|--------------------------------------------|-------------------------------------------------------------|-------------------------|
| <b>HEADLIGHT</b>                                                                                              |                                                              |                                                                                                                                 |                                         |             |                                            |                                                             |                         |
| *DRL: Daytime Running Light                                                                                   |                                                              |                                                                                                                                 |                                         |             |                                            |                                                             |                         |
| <b>DARKBUSTER E1</b><br>      | ECE R113 (CLASS C)<br>ECE R87<br>EMC                         | PASSING BEAM : 13W<br>DRIVING BEAM : 14W<br>*DRL: 5W                                                                            | 12-72VDC<br>Custom Volt: 12-120VDC      | IP68(1M)    | OSRAM CHIP<br>ALUMINUM ALLOY (CNC)<br>RoHs | W90 × H58 × D66.7 mm                                        | 330 g                   |
| <b>DARKBUSTER E2</b><br>      | ECE R113 (CLASS C)<br>EMC                                    | PASSING BEAM : 13W<br>DRIVING BEAM : 14W<br>*DRL: 5W                                                                            | 12-72VDC<br>Custom Volt: 12-120VDC      | IP68(1M)    | OSRAM CHIP<br>ALUMINUM ALLOY (CNC)<br>RoHs | W90 × H58 × D66.7 mm                                        | 315 g                   |
| <b>DARKBUSTER E3</b><br>      | ECE R113 (CLASS C)<br>EMC                                    | PASSING BEAM : 12W<br>*DRL: 3W                                                                                                  | 12-60VDC<br>Custom Volt: 12-120VDC      | IP67        | OSRAM CHIP<br>ALUMINUM ALLOY (CNC)<br>RoHs | W&H Ø 58 × D71 mm                                           | 230 g                   |
| <b>DARKBUSTER E5</b><br>      | ECE R113 (CLASS C)<br>EMC                                    | PASSING BEAM : 12W<br>POSITION LIGHT : 1W                                                                                       | 12VDC<br>Custom Volt: 12-120VDC         | IP67        | OSRAM CHIP<br>ALUMINUM ALLOY (CNC)<br>RoHs | W&H Ø 58 × D71 mm                                           | 240 g                   |
| <b>DARKBUSTER E6</b><br>      | ECE R149 (CLASS C)<br>ECE R148<br>EMC                        | PASSING BEAM : 13W<br>DRIVING BEAM : 14W<br>POSITION LIGHT : 2W                                                                 | 12-72VDC<br>Custom Volt: 12-120VDC      | IP68 (1M)   | OSRAM CHIP<br>ALUMINUM ALLOY (CNC)<br>RoHs | W90 × H58 × D66.7 mm                                        | 330 g                   |
| <b>DARKBUSTER E7</b><br>      | ECE R149 (CLASS D)<br>ECE R149 (CLASS F3)<br>ECE R148<br>EMC | PASSING BEAM : 18W<br>DRIVING BEAM : 36W<br>FOG LIGHT : 13W<br>POSITION LIGHT : 3W<br>CORNERING LIGHT :<br>LEFT 10W / RIGHT 10W | 12-60VDC<br>Custom Volt: 12-120VDC      | IP67        | OSRAM CHIP<br>ALUMINUM ALLOY<br>RoHs       | W&H Ø 178 × D92 mm                                          | 1100 g                  |
| <b>DARKBUSTER E9</b><br>      | ECE R149 (CLASS B)<br>EMC                                    | PASSING BEAM : 7W<br>DRIVING BEAM : 9W                                                                                          | 6V / 12-60VDC<br>Custom Volt: 12-120VDC | IP68 (1M)   | OSRAM CHIP<br>ALUMINUM ALLOY<br>RoHs       | W&H Ø 58 × D62 mm                                           | 150 g                   |
| <b>DARKBUSTER E10</b><br>   | ECE R149 (CLASS B)<br>EMC                                    | PASSING BEAM : 7W<br>DRIVING BEAM : 9W<br>POSITION LIGHT : 1W                                                                   | 6V / 12VDC<br>Custom Volt: 6-120VDC     | IP68 (1M)   | OSRAM CHIP<br>ALUMINUM ALLOY<br>RoHs       | W&H Ø 58 × D62 mm                                           | 180 g                   |
| <b>DARKBUSTER E11</b><br>   | ECE R149 (CLASS B)<br>EMC<br><b>COMPACT SIZE</b>             | PASSING BEAM : 7W                                                                                                               | 6V / 12-60VDC<br>Custom Volt: 6-120VDC  | IP68 (1M)   | OSRAM CHIP<br>ALUMINUM ALLOY<br>RoHs       | W Ø 43 × H56 × D45.3 mm                                     | 90 g                    |
| <b>FOG LIGHT</b>                                                                                              |                                                              |                                                                                                                                 |                                         |             |                                            |                                                             |                         |
| <b>DARKBUSTER F1</b><br>    | ECE R149<br>ECE R149 (CLASS F3)                              | FOG LIGHT : 10W                                                                                                                 | 12-60VDC<br>Custom Volt: 12-120VDC      | IP68(1M)    | OSRAM CHIP<br>HOUSING:<br>ALUMINUM ALLOY   | W65 × H67 × D58 mm                                          | 150 g                   |
| <b>TAIL LIGHT</b>                                                                                             |                                                              |                                                                                                                                 |                                         |             |                                            |                                                             |                         |
| <b>DARKBUSTER T2</b><br>    | ECE R50<br>EMC                                               | 1W / 2W                                                                                                                         | 12VDC<br>Custom Volt: 6-120VDC          | IP67        | OSRAM CHIP<br>ALUMINUM ALLOY (CNC)<br>RoHs | W64.7 × H15.6 × D26.2 mm                                    | 45 g                    |
| <b>DARKBUSTER T2E</b><br>   | ECE R50<br>EMC                                               | 0.5W / 1W                                                                                                                       | 12VDC<br>Custom Volt: 6-120VDC          | IP67        | OSRAM CHIP<br>PLASTIC<br>RoHs              | W67.2 × H18.1 × D21 mm                                      | 35 g                    |
| <b>TURN SIGNAL</b>                                                                                            |                                                              |                                                                                                                                 |                                         |             |                                            |                                                             |                         |
| <b>DARKBUSTER A1</b><br>    | ECE R148<br>EMC                                              | 1W                                                                                                                              | 6-60VDC<br>Custom Volt: 6-120VDC        | IP67        | TAIWAN CHIP<br>PLASTIC<br>RoHs             | S : W112.8 × H18.5 × D24.5 mm<br>F : W67.2 × H18.1 × D21 mm | SOLID 45 g<br>FLAT 30 g |
| <b>FRONT POSITION + TURN SIGNAL</b>                                                                           |                                                              |                                                                                                                                 |                                         |             |                                            |                                                             |                         |
| <b>DARKBUSTER AT1-F</b><br> | ECE R148<br>EMC                                              | 1W                                                                                                                              | 6-60VDC<br>Custom Volt: 6-120VDC        | IP67        | TAIWAN CHIP<br>PLASTIC<br>RoHs             | S : W112.8 × H18.5 × D24.5 mm<br>F : W67.2 × H18.1 × D21 mm | SOLID 45 g<br>FLAT 30 g |
| <b>DARKBUSTER AT5-F</b><br> | ECE R148<br>EMC                                              | 3W                                                                                                                              | 12VDC                                   | IP67        | TAIWAN CHIP<br>PLASTIC<br>RoHs             | S : W112.8 × H18.5 × D24.5 mm<br>F : W67.2 × H18.1 × D21 mm | SOLID 45 g<br>FLAT 30 g |
| <b>REAR POSITION + BRAKE + TURN SIGNAL</b>                                                                    |                                                              |                                                                                                                                 |                                         |             |                                            |                                                             |                         |
| <b>DARKBUSTER AT1-R</b><br> | ECE R148<br>EMC                                              | 1W                                                                                                                              | 6-60VDC<br>Custom Volt: 6-120VDC        | IP67        | OSRAM CHIP<br>PLASTIC<br>RoHs              | S : W112.8 × H18.5 × D24.5 mm<br>F : W67.2 × H18.1 × D21 mm | SOLID 45 g<br>FLAT 30 g |





# BRIGHTSTARTW

## AI MOBILITY LIGHTING MANUFACTURER



**BRIGHTSTARTW** was founded in 2002 and specialized in automotive lamps, stage lights and diving lights.  
Now we focus on developing **E-MARK & DOT LED Lights**.

**Our advantage: Legal on-road, Energy-saving & Robust Quality**



### QUALITY ASSURANCE



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