

HID ELECTRONIC BALLAST



HID ELECTRONIC BALLASTS can be widely used in streets, Greenhouse, aquarium, highways, bridges, railways, tunnels, shopping malls, hotels, factories, airports, seaports and places like that.

Illumination is very important for plant growth in greenhouse, the general way to increase illumination is to configure the compensation light device. The whole compensation light device is mainly composed of bulbs, ballasts, and reflectors device.

Bulb: Mainly includes high pressure sodium lamps and metal halide lamps. Because the special spectrum energy of high pressure sodium lamps is helpfully for plant growth, so it is widely used for vegetable and flower growth in greenhouse.

Ballast: There are 2 kinds of ballasts, electronic ballasts and magnetic ballasts. Compare with magnetic ballast, electronic ballasts have more advantages:

- RF-shielded: no interference, no RF problem;
- 5 years warranty: 3 years full & 2 years pro-rated;
- Completely silent, lightweight;
- 30% more lumens than magnetic ballast.



The electronic ballast with reflector for GREENHOUSE

Reflective device: Our reflective device is made of pure aluminum with oxygenation coating, high reflectivity, good light distribution curve, equal illumination. There are some specifications for choice.

Characteristics:

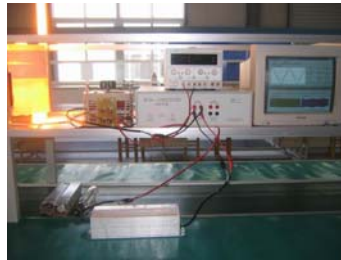
- * High power factor:
PF \geq 0.99, it can effectively increase the utilization of electric network and reduce power supply cost.
- * Low harmonic:
General harmonic THD \leq 10%, low pollution to electronic network.
- * Low start current:
It is only half of working current, can reduce cost of power cord and control device
- * High light efficiency:
Increase 5% luminous flux than magnetic ballasts.
- * Low power consumption:
 \leq 6% (magnetic ballasts' power consumption is more than 15%)
- * Constant output of power:
Constant output of power and light when voltage varies between -15% ~ +15% of rating voltage, which is helpful for plant to growth
- * Protection functions:
Open circuit and short circuit protection functions available. Power consumption of this product is only about 15W while that of normal product is about 40W when short circuit occurs. This function makes our products more safe and reliable
- * Easy installation:
Easy to hang the lamp, no need any external starter and compensation capacitor.
- * Compact design:
Reduce the shadow of lamp under sun, increase lighting capability in the greenhouse.
- * Working temperature:
-10 $^{\circ}$ C ~ +40 $^{\circ}$ C
- * Approval:
CE, GS, TUV, EMC, ROHS, CSA, FCC, ETL, CB, C-Tick
- * **Reduce general investment:**
Small in volume, light in weight, only 30% volume and weight of magnetic ballasts, manufacturing material such as steel and aluminum saved .
30% energy saved compared with magnetic ballasts, reduced the cost of connection cable & electric equipment etc.
Increase the lifetime of bulb, save the maintenance cost.



Electronic ballast figure (C)



Electronic ballast figure (D)



Electronic Ballast model list

model	Voltage	watts	Power factor	THD	Lamp CCF	hours
150HID-C	110-265	150	>0.99	<8%	<1.7	30000
250HID-A	120	250	>0.99	<8%	<1.7	30000
250HID-B	240	250	>0.99	<8%	<1.7	30000
250HID-C	110-265	250	>0.99	<8%	<1.7	30000
400HID-A	120	400	>0.99	<8%	<1.7	30000
400HID-B	240	400	>0.99	<8%	<1.7	30000
400HID-C	110-265	400	>0.99	<8%	<1.7	30000
600HID-A	120	600	>0.99	<8%	<1.7	30000
600HID-B	240	600	>0.99	<8%	<1.7	30000
600HID-C	110-265	600	>0.99	<8%	<1.7	30000
750HID-B (only HPS)	240	750	>0.99	<8%	<1.7	30000
1000HID-A	120	1000	>0.99	<8%	<1.7	30000
1000HID-B	240	1000	>0.99	<8%	<1.7	30000
1000HID-C	110-265	1000	>0.99	<8%	<1.7	30000
1000HID-D	277	1000	>0.99	<8%	<1.7	30000
1000HID-E	480	1000	>0.99	<8%	<1.7	30000

(MH/HPS)