

# *K-GROW distributions by Phytolite*

## **Grow lighting, 315W low frequency digital intelligent electronic ballasts**

**Model No. : EB-GCMH-315N/E**



### **1. Product presentation:**

EBM next-generation, unique patent, smart digital control light source auto-adapt light decay technology, high reliability electronic ballast. Smart digital control the light source ignition technology, the ignition distance up to 20meters. Adopt " smart digital light source auto-adapt light attenuation control" technical patent,next-generation electronic ballast. Working light source: Ceramic Metal Halide(CMH), High Pressure Sodium (HPS), Quartz Metal Halide (QMH). Ultra-strong light source parameter identification function, it can cope with poor working environment. Energy saving more than 25%, it is the embodiment of the achievements of technology innovation. Waterproof rate IP64, suitable for plant grow lighting and outdoor lighting.

### **2. Product Features:**

- Next-generation smart digital control the light source ignition technology, the ignition distance up to 20 meters.
- Using high-performance special lighting CPU control technology, Intelligent detection light source working condition, adjust the best luminous flux and electricity consumption in real time.
- Next-generation smart digital ignition energy control technology, it can prevent the damage of the light source and filament became black furthest, and extended the lamp working life.

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- Next-generation smart digital lamp startup control technology, high-precision digital control lamp startup current, it can control the light attenuation and working life of the lamp furthest.
- Smart digital lamp protection technology, High stability of lamp current control, Dynamic lamp power control, Smart lamp auto-adapt light attenuation control, the lamp working life up to 5 years.
- High reliability digital driver circuit. Smart, high sensitivity anti-thunder, open circuit, short circuit, over-current, over-voltage, over-temperature protection technology, the ballast working life up to 5 years.
- Efficiency: > 91% , High performance APFC circuit, Power factor up to 0.99, THD<6%, Efficient green energy conservation and environmental protection.
- Using the most sophisticated R&D and production process, with high outdoor quality standards.
- Working light source: Ceramic Metal Halide (CMH), High Pressure Sodium (HPS), Quartz Metal Halide (QMH).
- Multi-voltage input (240V).

## 3. Product Specifications

Product Type	EB-GCMH-315N/E
AC input voltage	240V ,50/60HZ
AC inrush current (Max)	Cold start, 50A/230V AC
Rated Power	340W
Line Current	1.42A@240V AC
Light Decay Control attenuation	<5%/20000h
PF	>0.99
Operating Frequency	140~160HZ
Trigger voltage	6KV(MAX)
THD	<6%
Ballast power dissipation	25W
Scalable communication interface	Non-Dimmable

## 4. Protection:

Open or short circuit protection	Automatic shutdown, troubleshooting on again to resume work
Hot start protection	Three times over one minute after ignition failed three times, such as the ignition is still unsuccessful ignition 3 times for another five minutes, if still unsuccessful automatic shutdown
Over-temperature protection	Set limit temperature, lower power protection
Lightning Protection	L-N:5KV; L-PE:5KV; N-PE:5KV

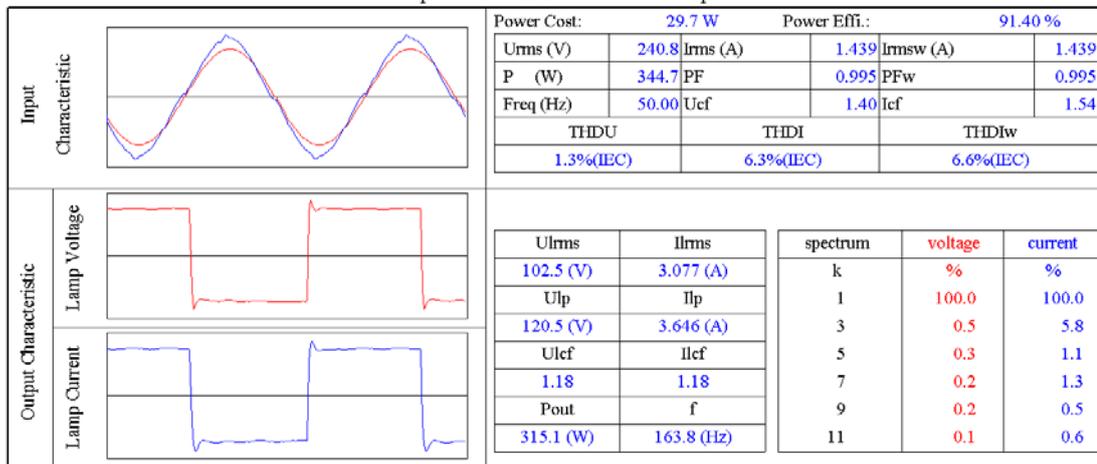
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## 5. Products comply with CE / CCC / UL standards:

Certification Category	Country	Note
CE	Europe	EEN61347-1,EN61347-2-9, EN55015,EN61547,EN61000-3-2/3
CCC	China	GB19510.1, GB19510.13, GB17743,GB17625.1.
UL/CUL	USA &Canada	ANSI/UL 1029-1994

## 6. Integrated Test Parameters:

UI2000A(HID) Electronic Ballast Test Instrument  
Compositive Characteristic Test Report



## 7. Environmental noise standards:

GB/T14623:Urban regional environmental noise standards

## 8. Environmental noise standards:

Operating temperature	30°C~+50°C
Operating humidity	20~95%RH
Storage temperature humidity	-30°C~+70°C,10~95%RH

## 9. Burn-in:

The power should Burn-in at least 4 hours under full load condition and ambient temperature of 40°C±5°C.

## 10. Life:

Under rated ambient temperature of 45 °C and 220Vac input conditions, the theoretical life expectancy is above 50,000 hours.



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### 11. Waterproof:

IP64 Standard.

### 12. ROHS:

Meet ROHS Standard.

### 13. Weight、 Package and Dimensions:

Items	Note
Enclosure Material	Aluminum
Color	White
Net weight	3.4kg
Box size(WxDxH)	319mm x 194mm x 122mm
Length (A)	253mm
Width(B)	125mm
Height(H)	92mm
Install slot width	12mm



### 14. Wiring Diagram:

