

HID Metal Halide 1x100W

Programmed Cold Start

Programmed Cold Start Universal Voltage 120V-277V, Electronic Metal Halide ballast for one (1) CDM, SDW-T, or MH 100W Philips or Venture lamps.

Technical Specification:

UL Listed, CUL Certified	Surge Protection:	Meets ANSI C62.41
EMI FCC Parts 18, Subparts C, Class A	Thermal Protection:	CLASS P
Rating: Type 1 Outdoor, HL	Lamp Current Crest Factor:	< 1.6
Sound Rating: Class A	Remote Mounting Distance:	25 ft
Min. Starting Temp: - 30° C	Power Factor:	0.99
Max. Case Temp: 90° C	Input Frequency:	50/60Hz
End of Lamp Life Protection Circuit	Lamp Frequency:	170 Hz
THD: < 10%		

Hot Lamp/Output Short Circuit Double protection:
 1) Programmed I. C. Control with Power On reset 2) Thermal switch with Auto Reset
 Retry 8 cycles (each cycle 2.7 seconds high voltage plus a 3 minutes 0 V pulse). Shut down after 25 minutes

For Bottom leads Specify "B" at the end of Model #

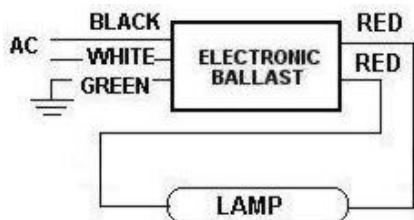
Case Size: Series CH2U

Due to continuing efforts to offer improved products all specifications are subject to change without prior notice

NO. OF LAMPS	INPUT VOLTAGE	LAMP WATTS	INPUT WATTS AVERAGE	MAX INPUT CURRENT (A)	BALLAST FACTOR	MODEL
1	120V	100	112	0.93	1.0	NMHU1100
1	277V	100	112	0.48	1.0	"
1	230V	100	112	0.40	1.0	"

LIMITED WARRANTY

5 YEAR at maximum case temperature 75 deg C. 3 YEAR at maximum case temperature 90 deg C. Manufacturer warrants to the purchaser: Electronic Ballast will be free from defects in material or workmanship from the date of manufacture conditioned upon proper storage, installation, use, and maintenance and conformance with any recommendations of Manufacturer



Case Size	L	W	H	ML
Series CH2U	140mm	91mm	32mm	133mm

Warning: Always Disconnect Power before Handling.
 Case Should be Grounded. Install in accordance with National and Local Electrical Codes.

1500 Marine Drive, #200 North Vancouver, BC V7P 1T7
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*Sage
Lighting Ltd.*

HID Metal Halide

1x20W

Programmed Cold Start

Programmed Cold Start Universal Voltage 120V-277V, Electronic Metal Halide ballast for one (1) CMH 20W GE lamp.

Technical Specification:

UL Listed, CUL Certified
 EMI FCC Parts 18, Subparts C, Class A
 Rating: Type 1 Outdoor, HL
 Sound Rating: Class A
 Min. Starting Temp: - 30° C
 Max. Case Temp: 90° C
 End of Lamp Life Protection Circuit
 Hot Lamp/Output Short Circuit protection:
 THD: < 10% 277V < 15%

Surge Protection: Meets ANSI C62.41
 Thermal Protection: CLASS P
 Lamp Current Crest Factor: < 1.6
 Remote Mounting Distance: 25 ft
 Power Factor: 0.99
 Input Frequency: 50/60Hz
 Lamp Frequency: 170 Hz
 Thermal switch Auto Reset Retry 20-30 minutes

For Bottom leads Specify "B" at the end of Model #

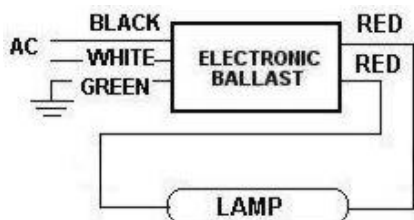
Case Size: Series CH1U

Due to continuing efforts to offer improved products all specifications are subject to change without prior notice

NO. OF LAMPS	INPUT VOLTAGE	LAMP WATTS	INPUT WATTS AVERAGE	MAX INPUT CURRENT (A)	BALLAST FACTOR	MODEL
1	120V	20	24	0.20	1.0	NMHU120
1	277V	20	24	0.09	1.0	"
1	230V	20	24	0.10	1.0	"

LIMITED WARRANTY

5 YEAR at maximum case temperature 75 deg C. 3 YEAR at maximum case temperature 90 deg C. Manufacturer warrants to the purchaser: Electronic Ballast will be free from defects in material or workmanship from the date of manufacture conditioned upon proper storage, installation, use, and maintenance and conformance with any recommendations of Manufacturer



Case Size L W H ML
 Series CH1U 111mm 77mm 32mm 102mm

Warning: Always Disconnect Power before Handling.
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 with National and Local Electrical Codes.

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HID Metal Halide

1x35W, 39W

Programmed Cold Start

Programmed Cold Start Universal Voltage 120V-277V, Electronic Metal Halide ballast for one (1) CDM, SDW-T 35W, CMH 39W or HCI-T 35W GE, Philips or Osram lamps.

Technical Specification:

UL Listed, CUL Certified
 EMI FCC Parts 18, Subparts C, Class A
 Rating: Type 1 Outdoor, HL
 Sound Rating: Class A
 Min. Starting Temp: - 30° C
 Max. Case Temp: 90° C
 End of Lamp Life Protection Circuit
 Hot Lamp/Output Short Circuit protection:
 THD: < 10%

Surge Protection: Meets ANSI C62.41
 Thermal Protection: CLASS P
 Lamp Current Crest Factor: < 1.6
 Remote Mounting Distance: 25 ft
 Power Factor: 0.99
 Input Frequency: 50/60Hz
 Lamp Frequency: 170 Hz
 Thermal switch Auto Reset Retry 20-30 minutes

For Bottom leads Specify "B" at the end of Model #

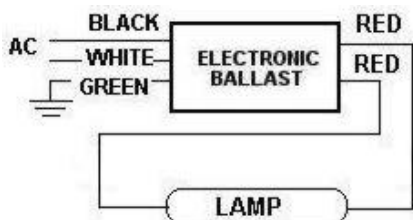
Case Size: Series CH1U

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NO. OF LAMPS	INPUT VOLTAGE	LAMP WATTS	INPUT WATTS AVERAGE	MAX INPUT CURRENT (A)	BALLAST FACTOR	MODEL
1	120V	35/39	45	0.38	1.0	NMHU135
1	277V	35/39	45	0.16	1.0	"
1	230V	35/39	45	0.19	1.0	"

LIMITED WARRANTY

5 YEAR at maximum case temperature 75 deg C. 3 YEAR at maximum case temperature 90 deg C. Manufacturer warrants to the purchaser: Electronic Ballast will be free from defects in material or workmanship from the date of manufacture conditioned upon proper storage, installation, use, and maintenance and conformance with any recommendations of Manufacturer



Case Size L W H ML
 Series CH1U 111mm 77mm 32mm 102mm

Warning: Always Disconnect Power before Handling.
 Case Should be Grounded. Install in accordance
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HID Metal Halide 1x50W

Programmed Cold Start

Programmed Cold Start Universal Voltage 120V-277V, Electronic Metal Halide ballast for one (1) SDW-T 50W or MH 50W Philips or Venture lamps.

Technical Specification:

UL Listed, CUL Certified
 EMI FCC Parts 18, Subparts C, Class A
 Rating: Type 1 Outdoor, HL
 Sound Rating: Class A
 Min. Starting Temp: - 30° C
 Max. Case Temp: 90° C
 End of Lamp Life Protection Circuit
 Hot Lamp/Output Short Circuit protection:
 THD: < 10%

Surge Protection: Meets ANSI C62.41
 Thermal Protection: CLASS P
 Lamp Current Crest Factor: < 1.6
 Remote Mounting Distance: 25 ft
 Power Factor: 0.99
 Input Frequency: 50/60Hz
 Lamp Frequency: 170 Hz
 Thermal switch Auto Reset Retry 20-30 minutes

For Bottom leads Specify "B" at the end of Model #

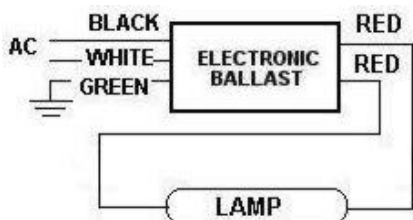
Case Size: Series CH2U

Due to continuing efforts to offer improved products all specifications are subject to change without prior notice

NO. OF LAMPS	INPUT VOLTAGE	LAMP WATTS	INPUT WATTS AVERAGE	MAX INPUT CURRENT (A)	BALLAST FACTOR	MODEL
1	120V	50	56	0.46	1.0	NMHU150
1	277V	50	56	0.20	1.0	"
1	230V	50	56	0.24	1.0	"

LIMITED WARRANTY

5 YEAR at maximum case temperature 75 deg C. 3 YEAR at maximum case temperature 90 deg C. Manufacturer warrants to the purchaser: Electronic Ballast will be free from defects in material or workmanship from the date of manufacture conditioned upon proper storage, installation, use, and maintenance and conformance with any recommendations of Manufacturer



Case Size	L	W	H	ML
Series CH2U	140mm	91mm	32mm	133mm

Warning: Always Disconnect Power before Handling.
 Case Should be Grounded. Install in accordance
 with National and Local Electrical Codes.

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HID Metal Halide 1x70W

Programmed Cold Start

Programmed Cold Start Universal Voltage 120V-277V, Electronic Metal Halide ballast for one (1) CDM, CHC, SON, CMH, HQ-E 70W Philips, GE or Osram lamps.

Technical Specification:

UL Listed, CUL Certified
 EMI FCC Parts 18, Subparts C, Class A
 Rating: Type 1 Outdoor, HL
 Sound Rating: Class A
 Min. Starting Temp: - 30° C
 Max. Case Temp: 90° C
 End of Lamp Life Protection Circuit
 THD: < 10%

Surge Protection: Meets ANSI C62.41
 Thermal Protection: CLASS P
 Lamp Current Crest Factor: < 1.6
 Remote Mounting Distance: 25 ft
 Power Factor: 0.99
 Input Frequency: 50/60Hz
 Lamp Frequency: 170 Hz

Hot Lamp/Output Short Circuit Double protection:

1) Programmed I. C. Control with Power On reset 2) Thermal switch with Auto Reset
 Retry 8 cycles (each cycle 2.7 seconds high voltage plus a 3 minutes OV pulse). Shut down after 25 minutes

For Bottom leads Specify "B" at the end of Model #

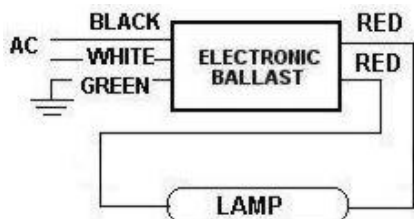
Case Size: Series CH2U

Due to continuing efforts to offer improved products all specifications are subject to change without prior notice

NO. OF LAMPS	INPUT VOLTAGE	LAMP WATTS	INPUT WATTS AVERAGE	MAX INPUT CURRENT (A)	BALLAST FACTOR	MODEL
1	120V	70	80	0.67	1.0	NMHU170
1	277V	70	80	0.29	1.0	"
1	230V	70	80	0.34	1.0	"

LIMITED WARRANTY

5 YEAR at maximum case temperature 75 deg C. 3 YEAR at maximum case temperature 90 deg C. Manufacturer warrants to the purchaser: Electronic Ballast will be free from defects in material or workmanship from the date of manufacture conditioned upon proper storage, installation, use, and maintenance and conformance with any recommendations of Manufacturer



Case Size L W H ML
 Series CH2U 140mm 91mm 32mm 133mm

Warning: Always Disconnect Power before Handling.
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HID Metal Halide

2x35W, 39W

Programmed Cold Start

Programmed Cold Start Universal Voltage 120V-277V, Electronic Metal Halide ballast for two (2) CDM, SDW-T 35W, CMH 39W or HCI-T 35W GE, Philips or Osram lamps.

Technical Specification:

UL Listed, CUL Certified
 EMI FCC Parts 18, Subparts C, Class A
 Rating: Type 1 Outdoor, HL
 Sound Rating: Class A
 Min. Starting Temp: - 30° C
 Max. Case Temp: 90° C
 End of Lamp Life Protection Circuit
 Hot Lamp/Output Short Circuit protection:
 THD: < 10%

Surge Protection: Meets ANSI C62.41
 Thermal Protection: CLASS P
 Lamp Current Crest Factor: < 1.6
 Remote Mounting Distance: 25 ft
 Power Factor: 0.99
 Input Frequency: 50/60Hz
 Lamp Frequency: 170 Hz
 Thermal switch Auto Reset Retry 20-30 minutes

For Bottom leads Specify "B" at the end of Model #

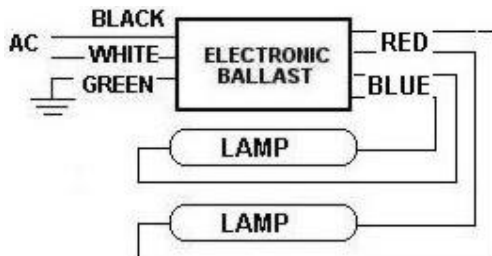
Case Size: Series CH2U

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NO. OF LAMPS	INPUT VOLTAGE	LAMP WATTS	INPUT WATTS AVERAGE	MAX INPUT CURRENT (A)	BALLAST FACTOR	MODEL
2	120V	35/39	93	0.77	1.0	NMHU235
2	277V	35/39	93	0.33	1.0	"
2	230V	35/39	93	0.39	1.0	"

LIMITED WARRANTY

5 YEAR at maximum case temperature 75 deg C. 3 YEAR at maximum case temperature 90 deg C. Manufacturer warrants to the purchaser: Electronic Ballast will be free from defects in material or workmanship from the date of manufacture conditioned upon proper storage, installation, use, and maintenance and conformance with any recommendations of Manufacturer



Case Size	L	W	H	ML
Series CH2U	140mm	91mm	32mm	133mm

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