

# ELECTRONIC FLUORESCENT BALLASTS FOR MULTIPLE LIGHTING APPLICATIONS

## Fluorescent

10 ballasts operate 132 lamps  
in 860 combinations  
Fluorescent T5 ultra-slim type  
2 ballasts operate 41 lamps  
in 70 combinations

**FEATURES:** solid state, high power factor,  
small case sizes, lightweight, energy savings,  
longer lamp life, versatile, 120 & 277 volts



**APPLICATIONS:** T2-T5-T6-T8-T10-T12-Biax-Flat Quads,  
Triple Biax-2D-Circline-HO's-VHO's-HID's

**BALLASTS**

**Too many types to list. For correct ballast application please follow our 4 easy steps**  
 1. lamp description      2. number of lamps      3. voltage used      4. call 800 445 6611

## WORKHORSE BALLASTS

**L = Long      C = Cube or Square**

MODEL	BW1L	BW2C	BW22C	BW3C	BW33C
		BW2C277	BW22C277	BW3C277	
	BW1L277	BW2L	BW22L	BW3L	BW33L
		BW2L277	BW22L277	BW3L277	
	Maximum Power 28Watts Model No. WH1-120-L Maximum Current (120vac) .20 AMP Model No. WH1-277-L Maximum Current (277vac) .11 AMP Black/White Wires - 12 in. Red/Yellow Wires - 24 in. Ballast Case Size - 120-L (H .75", W 1", L 7.5") Ballast Case Size - 227-L (H .75", W 1", L 7.5") Ballast Wt. - 4.5 oz. Case Qty. & Wt. - 50 pcs. 15 lbs.	Maximum Power 35Watts Model No. WH2-120-L, WH2-120-C (BLS) Maximum Current (120vac) .33 AMP Model No. WH2-277-L, WH2-120-C (BLS) Maximum Current (277vac) .15 AMP Black/White Wires L-18" C-12" Red/Yellow Wires L-36" C-12" Case L = H 1.25", W 1", L 5.5" C = H 1", W 1.75", L 3.3" Ballast Wt. - 7 oz. Case Qty. & Wt. - 50 pcs. 22 lbs.	Maximum Power 35Watts Model No. WH22-120-L, WH22-120-C (BLS) Maximum Current (120vac) .33 AMP Model No. WH22-277-L, WH22-120-C (BLS) Maximum Current (277vac) .15 AMP Black/White Wires L-18" C-12" Red/Yellow Wires L-36" C-12" Case L = H 1.25", W 1", L 5.5" C = H 1", W 2.3", L 3.3" Ballast Wt. - 7 oz. Case Qty. & Wt. - 50 pcs. 22 lbs.	Maximum Power 64Watts Model No. WH3-120-L, WH3-120-C (BLS) Maximum Current (120vac) .56 AMP Model No. WH3-277-L, WH3-120-C (BLS) Maximum Current (277vac) .24 AMP Black/White Wires L-18" C-12" Red/Yellow Wires L-36" C-12" Case L = H 1.25", W 1", L 6.5" 120 C = H 1", W 2.5", L 3.8" C = H 1", W 3.1", L 3.8" Ballast Wt. - 10 oz. Case Qty. & Wt. - 50 pcs. 32 lbs.	Maximum Power 64Watts Model No. WH33-120-L Maximum Current (120vac) .53 AMP Model No. WH33-120-C (BLS) Maximum Current (277vac) .56 AMP Black/White Wires L-18" C-12" Red/Yellow Wires L-36" C-12" Case L = H 1", W 1.5", L 6.5" C = H 1", W 3.1", L 3.82" Ballast Wt. - 10 oz. Case Qty. & Wt. - 50 pcs. 32 lbs.

**USA & CANADA**  
 1-800-445-6611  
 FAX: 1-800-445-6690



**PHOENIX, AZ**  
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# ELECTRONIC FLUORESCENT BALLASTS FOR MULTIPLE LIGHTING APPLICATIONS

**BALLASTS**

**Too many types to list. For correct ballast application please follow our 4 easy steps**  
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**L = Long      C = Cube or Square**

MODEL	BW4L	BW5L	BW6L	BW7L	
	BW4L277	BW5L277	BW6L277	BW7L277	BW8L277
	Maximum Power 70Watts Model No. WH4-120-L Maximum Current (120vac) .56 AMP Model No. WH4-277-L Maximum Current (277vac) .24 AMP Black/White Wires - 18 in. Red/Yellow Wires - 36 in. Ballast Case Size - 120-L (H 1", W 1.5", L 6.5") Ballast Wt. - 10 oz. Case Qty. & Wt. - 50 pcs. 32 lbs.	Maximum Power 128Watts Model No. WH5-120-L Maximum Current (120vac) 1.15 AMP Model No. WH5-277-L Maximum Current (277vac) 0.48 AMP Black/White Wires L-18" Red/Yellow Wires L-36" Case 120 L= H 1", W 1.72", L 8.5" Case 120 L= H 1", W 1.72", L 8.5" Ballast Wt. - 14 oz. Case Qty. & Wt. - 50 pcs. 44 lbs.	Maximum Power 140Watts Model No. WH6-120-L Maximum Current (120vac) 1.04 AMP Model No. WH6-277-L Maximum Current (277vac) 0.50 AMP Black/White Wires 18" Red/Yellow Wires 36" Case 120 L = H 1", W 1.72", L 8.5" 277 = H 1", W 1.72", L 9.5" Ballast Wt. - 15 oz. Case Qty. & Wt. - 50 pcs. 47.5 lbs.	Maximum Power 220Watts Model No. WH7-120-L Maximum Current (120vac) 1.82 AMP Model No. WH7-277-L Maximum Current (277vac) .85 AMP Black/White Wires 18" Red/Yellow Wires 36" Case L = H 1", W 1.72", L 18.25" Ballast Wt. - 32.8 oz. Case Qty. & Wt. - 25 pcs. 57 lbs.	Maximum Power 220Watts Model No. WH8-120-L Maximum Current (120vac) 1.8 AMP Model No. WH8-277-L Maximum Current (277vac) .74 AMP Black/White Wires 18" Red/Yellow Wires 36" Case = H 1", W 1.72", L 18.25" Ballast Wt. - 34 oz. Case Qty. & Wt. - 25 pcs. 57 lbs.

### Fluorescent

10 ballasts operate 132 lamps  
 in 860 combinations  
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**FEATURES:** solid state, high power factor, small case sizes, lightweight, energy savings, longer lamp life, versatile, 120 & 277 volts



**APPLICATIONS:** T2-T5-T6-T8-T10-T12-Biax-Flat Quads, Triple Biax-2D-Circline-HO's-VHO's-HID's

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**FLUORESCENT IN-FIXTURE ELECTRONIC BALLASTS**

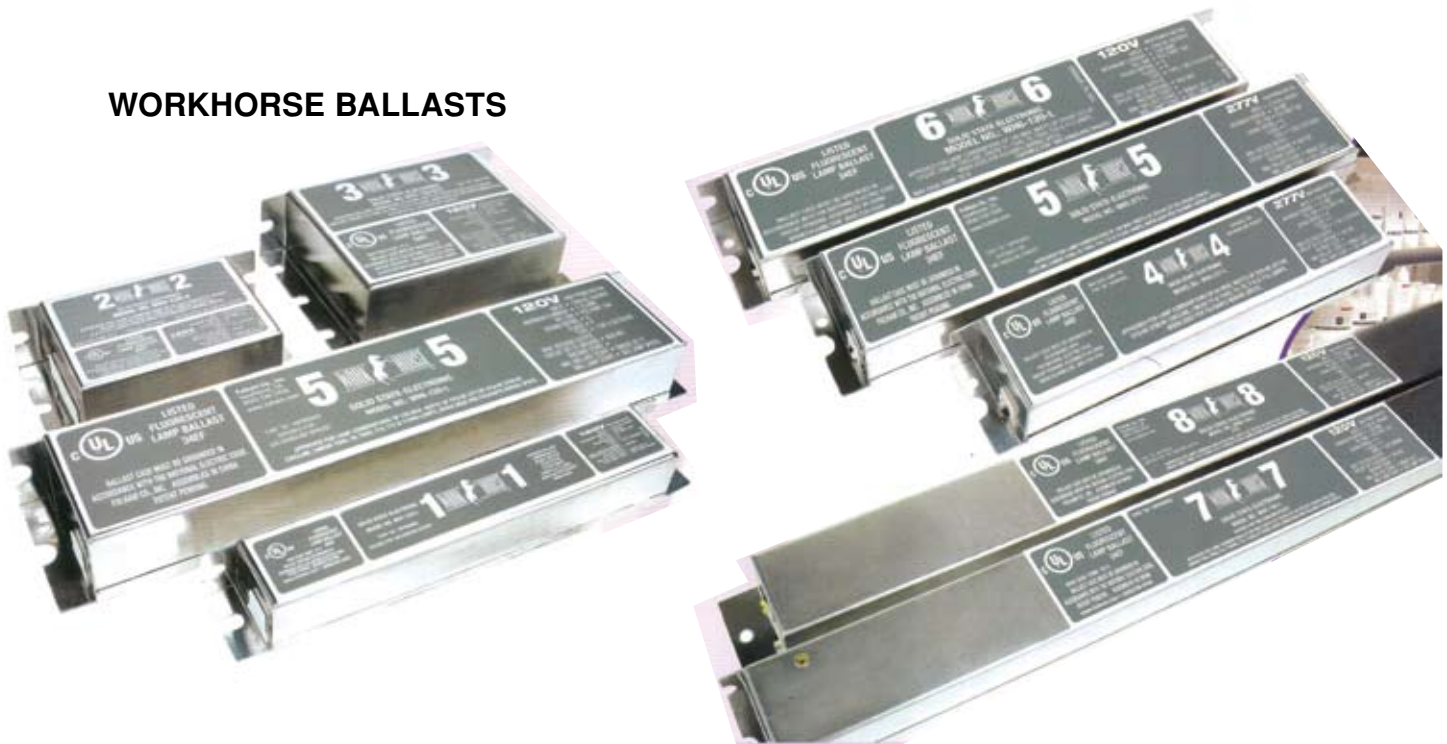
- Solid State Electronics
- High Power Factor
- Small Case Size
- Lightweight
- Versatile
- Energy Saving

**BALLAST SPECIFICATIONS COMMON TO ALL WORKHORSE**

Operating Voltage:	120 VAC ± 10%	Regulatory Approvals:	UL & cUL Listed
	277 VAC ± 10%	Type 1 Outdoors	
Frequency:	50/60 Hz	High Power Factor:	> .90
ATHD:	Meets ANSI C 82.11-1993	Open Circuit Voltage:	600 V RMS Max.
<b>Protection/Input</b>		Ballast Min. Operating Temp.:	-20° F (-30° C)
Over Current:	Fuse	Ballast Maximum Case Temp.:	158° F (70° C)
Voltage Transients:	MOV (PER ANSI C82.11 – 1993)	Ballast Lamp Starting Mode:	Instant Start
EMI: FCC CFR Title 47 Part 18 non- consumer		Class P Inherent Thermal Protection	
<b>Protection/Output:</b>		Sound Rating – A	
Open/Shorted Lamp			

**NOTE: Frequency switched, short duration ON/ OFF cycles with any Instant start ballast will reduce received Lamp Life. Please contact your local lamp manufacturer for additional information.**

**WORKHORSE BALLASTS**



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**FLUORESCENT - ( Commercial/Specifier Grade T8 & T12 - 120V & 277V )**

**BALLAST SPECIFICATIONS FOR WHCG T8 & T12 32W HIGH POWER FACTOR**

Power Factor: 97.5% Min.  
 ATHD: Less Than 20%  
 EMI: FCC CFR Title 47 Part 18 non-consumer  
 Ballast Factor: >.87 as ANSI specified  
 Lamp CF: <1.7  
 Starting Method: T8 Instant Start / T12: Rapid Start  
 Regulatory Approvals:UL & cUL Listed  
 Min. Starting Temp.: 0° F, (-18°)  
 Protection: Class P Inherent Thermal Protection

Ballast Size: H - 1.2" x W - 1.7" x L - 9.5"  
 (H-30mm x W-43mm x L-240mm)  
 Ballast weight: 1.7 lb (760g)  
 Black/White Wires: 25 Inches  
 Red Wires: 46.5 Inches  
 Blue Wires: 30.7 Inches



**T8 WHCG Commercial Grade  
1 WHCG 1**

Input Power: 30w (with T8 32w lamp)  
 Model No. WHCG1-120-T8-IS  
 Input Voltage: 120v 60 Hz (180v~132v)  
 Maximum Current (120vac) .26 AMP

Model No. WHCG1-277-T8-IS  
 Input Voltage: 277v 60 Hz (249v~305v)  
 Maximum Current (277vac) .12 AMP

**T8 WHCG Commercial Grade  
2 WHCG 2**

Input Power: 58w (with T8 32w lamp)  
 Model No. WHCG2-120-T8-IS  
 Input Voltage: 120v 60 Hz (180v~132v)  
 Maximum Current (120vac) .50 AMP

Model No. WHCG2-277-T8-IS  
 Input Voltage: 277v 60 Hz (249v~305v)  
 Maximum Current (277vac) .22 AMP

**T8 WHCG Commercial Grade  
3 WHCG 3**

Input Power: 88w (with T8 32w lamp)  
 Model No. WHCG3-120-T8-IS  
 Input Voltage: 120v 60 Hz (180v~132v)  
 Maximum Current (120vac) .75 AMP

Model No. WHCG3-277-T8-IS  
 Input Voltage: 277v 60 Hz (249v~305v)  
 Input Power: 87W (WITH T8 32W LAMP)  
 Maximum Current (277vac) .32 AMP

**T8 WHCG Commercial Grade  
4 WHCG 4**

Input Power: 112w (with T8 32w lamp)  
 Model No. WHCG4-120-T8-IS  
 Input Voltage: 120v 60 Hz (180v~132v)  
 Maximum Current (120vac) .96 AMP

Model No. WHCG4-277-T8-IS  
 Input Voltage: 277v 60 Hz (249v~305v)  
 Input Power: 110w (with T8 32w lamp)  
 Maximum Current (277vac) .41 AMP

**T12 WHCG Commercial Grade  
5 WHCG 5**

Input Power: 74w (with T12 40w lamp)  
 Model No. WHCG5-120-T12-RS  
 Input Voltage: 120v 60 Hz (180v~132v)  
 Maximum Current (120vac) .63 AMP

Model No. WHCG5-277-T12-RS  
 Input Voltage: 277v 60 Hz (249v~305v)  
 Input Power: 73w (with T12 40w lamp)  
 Maximum Current (277vac) .28 AMP

**T12 WHCG Commercial Grade  
6 WHCG 6**

Input Power: 36w (with T12 20w lamp)  
 Model No. WHCG6-120-T12-RS  
 Input Voltage: 120v 60 Hz (180v~132v)  
 Maximum Current (120vac) .31 AMP

Model No. WHCG6-277-T12-RS  
 Input Voltage: 277v 60 Hz (249v~305v)  
 Input Power: 36w (with T12 20w lamp)  
 Maximum Current (277vac) .13 AMP

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## FLUORESCENT - ( Commercial/Specifier Grade T8 & T12 - 120V & 277V )

### WORKHORSE T8 COMMERCIAL GRADE

Model Number	Operates Lamps
WHCG1-120-T8-IS	1 x F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG1-277-T8-IS	1 x F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG2-120-T8-IS	1 x F40T8, F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG2-277-T8-IS	1 x F40T8, F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG3-120-T8-IS	2 x F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG3-277-T8-IS	3x F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG4-120-T8-IS	4 x F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG4-277-T8-IS	4 x F17T8, F25T8, F32T8, F40T8, and U shape F31T8

### WORKHORSE T12 COMMERCIAL GRADE

Model Number	Operates Lamps
WHCG5-120-T12-RS	2 x F34T12, F40T12
WHCG1-277-T12-RS	2 x F34T12, F40T12
WHCG1-120-T12-RS	2 x F20T12
WHCG1-277-T12-RS	2 x F20T12

### WORKHORSE T8 SPECIFIER GRADE

Model Number	Operates Lamps
WHCG3-120-T8-IS	2 x F40T8, F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG4-120-T8-IS	3 x F40T8, F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG2-UNV-T8-IS	1 x F40T8, F17T8, F25T8, F32T8, F40T8, and U shape F31T8
WHCG4-UNV-T8-IS	3 x F40T8, F17T8, F25T8, F32T8, F40T8, and U shape F31T8

### WORKHORSE T12 SPECIFIER GRADE

Model Number	Operates Lamps
WHCG7-120-T12-RS-HO	2 x F96T12HO (Standard & ES)

#### Advanced Features:

- Drop In Replacement for Magnetic Ballasts
- Parallel Lamp Operation
- Commercial Grade = <20%THD
- Specifier Grade = < 10%THD

#### Applications:

- Offices
- Residential
- Apartments
- Industrial
- Schools
- Hotels
- Retirement Complexes
- Retail Stores

### BALLAST SPECIFICATIONS FOR WHSG T8 & T12 HIGH POWER FACTOR

Power Factor: 98.5% Min.

ATHD: Less Than 10%

EMI: FCC CFR Title 47 Part 18 non-consumer

Ballast Factor: >.87 as ANSI specified

Lamp CF: <1.7

Starting Method: T8: Instant Start / T12: Rapid Start

Regulatory Approvals: UL & cUL Listed

Min. Starting Temp.: 0° F, (-18°)

Protection: Class P Inherent Thermal Protection

Ballast Size: **T8:** H - 1.2" x W - 1.7" x L - 9.5"

(H-30mm x W-43mm x L-240mm)

**T12:** H - 1.5" x W - 3" x L - 11.75"

(H-38mm x W-76mm x L-268mm)

Ballast weight: **T8:** 1.5 lb (700g)

**T12:** 4.0 lbs (1.8 kg)

#### T8 WHCG Commercial Grade 1 WHCG 1

Input Power: 30w (with T8 32w lamp)  
Model No. WHCG1-120-T8-IS  
Input Voltage: 120v 60 Hz (180v~132v)  
Maximum Current (120vac) .26 AMP

Model No. WHCG1-277-T8-IS  
Input Voltage: 277v 60 Hz (249v~305v)  
Maximum Current (277vac) .12 AMP

#### T8 WHCG Commercial Grade 2 WHCG 2

Input Power: 58w (with T8 32w lamp)  
Model No. WHCG2-120-T8-IS  
Input Voltage: 120v 60 Hz (180v~132v)  
Maximum Current (120vac) .50 AMP

Model No. WHCG2-277-T8-IS  
Input Voltage: 277v 60 Hz (249v~305v)  
Maximum Current (277vac) .22 AMP

#### T8 WHCG Commercial Grade 3 WHCG 3

Input Power: 88w (with T8 32w lamp)  
Model No. WHCG3-120-T8-IS  
Input Voltage: 120v 60 Hz (180v~132v)  
Maximum Current (120vac) .75 AMP

Model No. WHCG3-277-T8-IS  
Input Voltage: 277v 60 Hz (249v~305v)  
Input Power: 87W (WITH T8 32W LAMP)  
Maximum Current (277vac) .32 AMP

#### T8 WHCG Commercial Grade 4 WHCG 4

Input Power: 112w (with T8 32w lamp)  
Model No. WHCG4-120-T8-IS  
Input Voltage: 120v 60 Hz (180v~132v)  
Maximum Current (120vac) .96 AMP

Model No. WHCG4-277-T8-IS  
Input Voltage: 277v 60 Hz (249v~305v)  
Input Power: 110w (with T8 32w lamp)  
Maximum Current (277vac) .41 AMP

#### T8 WHCG Commercial Grade 5 WHCG 5

Input Power: 74w (with T12 40w lamp)  
Model No. WHCG5-120-T12-RS  
Input Voltage: 120v 60 Hz (180v~132v)  
Maximum Current (120vac) .63 AMP

Model No. WHCG5-277-T12-RS  
Input Voltage: 277v 60 Hz (249v~305v)  
Input Power: 73w (with T12 40w lamp)  
Maximum Current (277vac) .28 AMP

#### T8 WHCG Commercial Grade 6 WHCG 6

Input Power: 36w (with T12 20w lamp)  
Model No. WHCG6-120-T12-RS  
Input Voltage: 120v 60 Hz (180v~132v)  
Maximum Current (120vac) .31 AMP

Model No. WHCG6-277-T12-RS  
Input Voltage: 277v 60 Hz (249v~305v)  
Input Power: 36w (with T12 20w lamp)  
Maximum Current (277vac) .13 AMP

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## LINEAR, COMPACT, & CIRCLINE LAMP ELECTRONIC BALLASTS

- Solid-State Electronics
- Normal Power Factor
- Small Case Size
- Lower Cost
- Light Weight
- Energy Saving



### BALLAST SPECIFICATIONS COMMON TO ALL PONY

Operating Voltage: 120VAC±10%  
 Frequency: 50/60Hz  
 Starting type: Rapid Start  
 Starting temp: -10°C  
 Ballast Max Case Temperature 158°F (70°C)  
 Transient protection C42.41 Class A 7 Strikes  
 EMI: FCC CFR Title 47 Part 18 non-consumer  
 Sound Rating "A"  
 CCF <1.7  
 Normal Power Factor > .5  
 Meets all UL/cUL Certification and ANSI Specifications where applicable

#### PONY FOR T5, T8, T12

Model Number	Operates Lamps
NPY-120-124-LT5	1 x F24T5HO
NPY-120-139-LT5	1 x F39T5HO
NPY-120-154-LT5	1 x F54T5HO
Case Size: H-.875" x W-1.25" x L-9"	
NPY-120-239-LT5	2 x F39T5HO
Case Size: H-1" x W-1" x L-11.42"	
NPY-120-254-LT5	2 x F54T5HO
Case Size: H-1" x W-1.18" x L-16.88"	
NPY-120-130-T8	1 x F30T8, F30T12
NPY-120-140-T8	1 x F32T8, F40T8
Case Size: H-1" x W-1.83" x L-6.7"	
NPY-120-230-T8	2 x F30T8, F30T12
NPY-120-240-T8	2 x F32T8, F40T8
Case Size: H-1" x W-1.75" x L-9.5"	
NPY-120-232-T8B	2 x F32T8, F25T8, F17T8
NPY-120-432-T8B	4 x F32T8, F25T8, F17T8
Case Size: Please contact MILLER O.E.M. at 800.445.6611 or feel free to visit us online at www.lightingparts.com	

#### PONY ULTRASLIM FOR T5

Model Number	Operates Lamps
NPY-120-108-T5US	1 x F8T5
NPY-120-113-T5US	1 x F8T5, F13T5
Case Size: H-.63" x W-.6" x L-6.7"	

#### SUGARCUBES FOR CFL & CIRCLE

SC-120-113-CFL	1 x QD13, TR13, F15T8
SC-120-113-CTW	1 x TW13
SC-120-118-CFL	1 x QD18, TR18
SC-120-118-CTW	1 x TW18
SC-120-122-CRT9	1 x CR20, CR22
SC-120-115-CT8	1 x F14, F15T8, F14, F15T12
	1 x F17T8
SC-230-113-CFL	1 x QD13, TR13
SC-230-113-CTW	1 x TW13
SC-230-118-CFL	1 x QD18, TR18
SC-230-118-CTW	1 x TW18
SC-230-122CRT9	1 x CR20, CR22
Case Size: H-1" x W-1.46" x L-3.07"	

#### SUGARCUBES FOR T5, T8, T12

Model Number	Operates Lamps
SC-120-108-LT5	1 x F8T5
SC-120-113-LT5	1 x F8T5, F13T5
SC-120-213-LT5	2 x F8T5, F13T5
SC-120-115-LT8	1 x F14, F15T8, F14, F15T12
SC-120-117-LT8	1 x F17T8, F15T8
SC-120-125-LT8	1 x F17T8, F25T8
SC-120-120-LT12	1 x F20T12
SC-230-113-LT5	1 x F8T5, F13T5
SC-230-213-LT5	2 x F8T5 or F13T5
SC-230-115-LT8	1 x F14, F15T8, F14, F15T12
SC-230-117-LT8	1 x F17T8, F15T8
SC-230-118-LT8	1 x F18T8
SC-230-125-LT8	1 x F17T8, F25T8
SC-230-120-LT12	1 x F20T12
Case Size: H-.80" x W-.83" x L-4.72"	
SC-120-208-LT5	2 x F8T5, F6T5
SC-230-208-LT5	2 x F8T5, F6T5
Case Size: H-1" x W-1.25" x L-5.5"	
<b>SUGARCUBES FOR UV LAMPS</b>	
SC-120-287-CUV	2 x UV287mm, UV180mm
SC-230-287-CUV	2 x UV287mm, UV180mm
Case Size: H-1" x W-1.46" x L-3.07"	

## COMPACT, CIRCLE, T5 & T8 LAMP ELECTRONIC BALLASTS

These solid state electronic ballast are engineered to perform efficiently with the lamps they operate and meet FCC Part 18-A and 18-B. These economically priced ballasts are applicable for under cabinet lighting, sconces, down lights, troffers, UV tanks and more. Ballast max Case temperature for Energy Star PONY

#### Lamp Operation Reference Key

- Examples:  
 1 x F17T8 – Operates 1 F17T8 Linear Lamp  
 2 x F32T8 – Operates 2 F32T8 Linear Lamps  
 2 x F40T12, F34T12 – Operates 2 F40 or 2 F34 T12 Linear Lamps

- TW – Twin  
 TR – Triple  
 QD – Quad  
 DQ – Double Quad  
 F – Fluorescent  
 FP – Flat Quad  
 TP – Twin 15mm  
 DL – Quad 15mm  
 T2, T5, T8, T12 – Bulb Diameter

#### PONY ENERGY STAR FOR COMPACT, CIRCLE, T5 & T8

Model Number	Operates Lamps
NPY-120-113CFL	1 x TW7, TW9, TW11, QD13, TR13
NPY-120-118CFL	1 x TW13, QD18, TR18
NPY-120-113BLS	1 x TW7, TW9, TW11, QD13, TR13
NPY-120-118BLS	1 x TW13, QD18, TR18
Case Size: H-1" x W-1.77" x L-3.34"	
NPY-120-126CFL	1 x TW18, TW24, QD26, TR26, CR22
NPY-120-126-BLS	1 x TW18, TW24, QD26, TR26, CR22
NPY-120-132CFL	1 x TW27/39, TR32, CR32
NPY-120-213CFL	2 x TW7, TW9, TW11, QD13, TR13
NPY-120-218CFL	2 x TW13, QD18W, TR18
Case Size: H-.875" x W-1.25" x L-9"	

Model Number	Operates Lamps
NPY-120-226CFL	2 x TW18, TW24W, 2 x QD26, TR26
NPY-120-232CFL	2 x TW27/36, TR32
NPY-120-230CR	1 x CR22+CR32
NPY-120-240CR	1 x CR22+CR32, 1 x CR32 + CR40, 2 x CR32
Case Size: H-1" x W-3.09" x L-3.81"	
NPY-120-214-LT5	1 or 2 x F14T5
NPY-120-221-LT5	1 or 2 x F21T5
NPY-120-228-LT5	1 or 2 x F28T5
Case Size: H-1" x W-1" x L-11.5"	
NPY-120-214-LT5	1 or 2 x F32T8, 2 x F25T8
Case Size: H-.875" x W-1.25" x L-9"	



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## FLUORESCENT EMERGENCY BALLASTS

### (LAMP COMPATABILITY CHART)

MODEL	MEB94C	MEB100	MEB60	MEB50	MEB30
Lumens	650	500	700	1400	3000
Linear Lamps		Number of Lamps Supported			
2'-4' Rapid, Instant or Energy Savings, T8-T12		1	1	1	1
2'-8' Rapid, Instant or Energy Savings, T8-T12, HO, VHO			2	2	2
2'-8' Rapid, Instant or Energy Savings, T8-T12, HO, VHO			1	1	1
20W-40W Circline		1	1	1	1
20W-40W Circline			2	2	2

Linear Lamps	Number of Lamps Supported				
13, 18, 26 (4-Pin)	1	1	1	1	1
13W-42W Twin, Quad or Triple (4-Pin)	1	1	1	1	1
40W Biax			1	1	1
40W Biax					2
50W Biax			1	1	1
55W Biax			1	1	1

The MEB Fluorescent Emergency Ballast allows the same fixture to be used for both normal and emergency operation.

In the event of a power failure, the MEB switches to the emergency mode and operates one or two of the existing lamps for a minimum of 90 minutes.

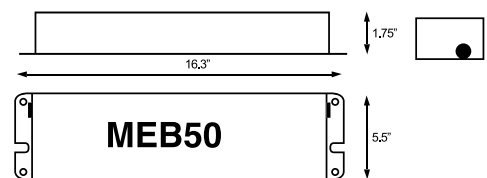
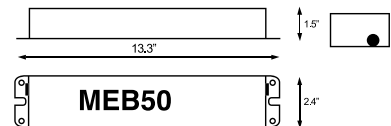
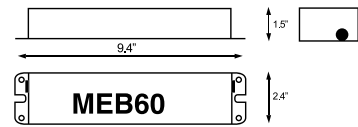
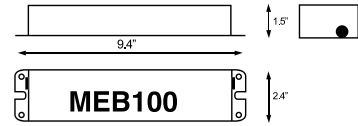
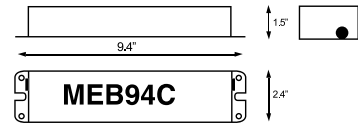
The unit contains a battery, charger, and inverter circuit in a single package. The MEB can be mounted on the wireway or on top of the fixture, and is UL listed for factory installation or retrofit applications.

### Emergency Fluorescent Battery Back Ups



\*All Ballasts are Standard with Dual 120 / 277 Volt Input

### BALLAST SPECIFICATIONS



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## CFL FLUORESCENT ELECTRONIC BALLASTS

- 120V-277V
- < 10% ATHD
- High Power Factor
- End-of-Life Protection
- Operate 1x, 2x Lamps
- Twin, Triple, Quad, Double Quad 9-70W
- UL, cUL

### BALLAST SPECIFICATIONS COMMON TO ALL RACEHORSE

Operating Voltage: Universal Voltage  
 Frequency: 50/60 Hz  
 ATHD: Meets ANSI C82.11-1993  
 Protection/Output: Open Lamp, Shorted Lamp, End -of-Life  
 Protection/Input:  
 Over Current Fuse  
 Voltage Transients MOV (PER ANSI C82.11-1993)  
 EMI: FCC CFR Title 47 Part 18 consumer

Regulatory Approvals UL & cUL Listed Type 1 Outdoor  
 High Power Factor > .98  
 Open Circuit Voltage 600 V RMS Max.  
 Ballast Min. Operating Temp. 0° F (-18° C)  
 Ballast Maximum Case Temp. 167° F (75° C) - 5 year warranty  
 Ballast Maximum Case Temp. 194° F (90° C) - 3 year warranty  
 Ballast Lamp Starting Mode Program Preheat Start  
 Class P Inherent Thermal Protection  
 Sound Rating - A

#### Advanced Features:

- Programmable start for extended lamp life in frequent switching applications
- End -of-lamp-life protection to safety remove power from the lamp as it nears end-of-life
- Cold starting to ensure proper functionality even in low temperature applications (0°F/-18°C)
- Improved reliability due to precision control flicker-free operation
- Auto-restart which eliminates the need to reset the power mains after lamp replacement

### PONY FOR T5, T8, T12

Model Number	Operates Lamps
RH1-UNV-213-BLS	1 or 2 x QD13, 1 or 2 x TR13 1 or 2 x TW7, TW9, TW11 1 or 2 x 2D10, 1 x 2D16
RH1-UNV-213-C	1 or 2 x QD13, 1 or 2 x TR13 1 or 2 x TW7, TW9, TW11 1 or 2 x 2D10, 1 x 2D16
RH2-UNV-218-BLS	1 or 2 x QD18, 1 or 2 x TR18 2 x 2D16, 1 or 2 x 2D21
RH2-UNV-218-C	1 or 2 x QD18, 1 or 2 x TR18 2 x 2D16, 1 or 2 x 2D21
RH3-UNV-226-BLS	1 or 2 x QD26, 1 or 2 x TR26 1 or 2 x TR32, TR42, 1 x T5CR22, T5CR40 1 or 2 x TW13, 2 x TW24/27 2 x 2D21, 1 x 2D28, 2D38
RH3-UNV-226-C	1 or 2 x QD26, 1 or 2 x TR26 1 or 2 x TR32, TR42, 1 x T5CR22, T5CR40 1 or 2 x TW13, 2 x TW24/27 2 x 2D21, 1 x 2D28, 2D38
RH4-UNV-242-BLS	1 or 2 x QD26, TR26, TB32, TR42 1 x DQ57, DQ70, 2 x TW24/27, TW36 TW40, 2D28, 2D38
RH4-UNV-242-C	1 or 2 x QD26, TR26, TB32, TR42 1 x DQ57, DQ70, 2 x TW24/27, TW36 TW40, 2D28, 2D38
RH4-UNV-242-BLS	1 or 2 x TR32, TR42, 1 or 2 x DQ57, 1 or 2 DQ70, 2 x TW50
RH4-UNV-242-C	1 or 2 x TR32, TR42, 1 or 2 x DQ57, 1 or 2 DQ70, 2 x TW50

#### Applications:

- Medium and high bay industrial and retail
- Canopy lighting
- Parking garages
- Indirect wall washing
- Outdoor architectural
- Wall sconces
- Flood lighting
- Gymnasiums
- Downlighting
- Post tops
- Ceiling surface mount

### 1 RACEHORSE 1

Max. Load: 26W  
 Model No.: RH1-UNV-213-BLS  
 Model No.: RH1-UNV-213-C  
 Model No.: RH1-UNV-213-BLS-WL\*  
 Model No.: RH1-UNV-213-C-WL\*  
 Max. Current: .25 AMP  
 Ballast Case Size: H 1" W 2.4" L 4.7" L1 4.2"  
 Ballast Weight: 5.2 oz.  
 Case Quantity: 50 pcs.

### 2 RACEHORSE 2

Max. Load: 36W  
 Model No.: RH2-UNV-218-BLS  
 Model No.: RH2-UNV-218-C  
 Model No.: RH2-UNV-218-BLS-WL\*  
 Model No.: RH2-UNV-218-C-WL\*  
 Max. Current: .30 AMP  
 Ballast Case Size: H 1" W 2.4" L 4.7" L1 4.2"  
 Ballast Weight: 5.2 oz.  
 Case Quantity: 50 pcs.

### 3 RACEHORSE 3

Max. Load: 54W  
 Model No.: RH3-UNV-226-BLS  
 Model No.: RH3-UNV-226-C  
 Model No.: RH3-UNV-226-BLS-WL\*  
 Model No.: RH3-UNV-226-C-WL\*  
 Max. Current: .43 AMP  
 Ballast Case Size: H 1" W 2.4" L 4.7" L1 4.2"  
 Ballast Weight: 5.2 oz.  
 Case Quantity: 50 pcs.

### 4 RACEHORSE 4

Max. Load: 84W  
 Model No.: RH4-UNV-242BLS  
 Model No.: RH4-UNV-242-C  
 Model No.: RH4-UNV-242-BLS-WL\*  
 Model No.: RH4-UNV-242-C-WL\*  
 Max. Current: .78 AMP  
 Ballast Case Size: H 1.3" W 3" L 4.7" L1 4.2"  
 Ballast Weight: 7 oz.  
 Case Quantity: 50 pcs.

### 5 RACEHORSE 5

Max. Load: 140W  
 Model No.: RH5-UNV-270-BLS  
 Model No.: RH5-UNV-270-C  
 Model No.: RH5-UNV-270-BLS-WL\*  
 Model No.: RH5-UNV-270-C-WL\*  
 Max. Current: 1.4 AMP  
 Ballast Case Size: H 1.3" W 3" L 7" L1 7.5"  
 Ballast Weight: 10.5 oz.  
 Case Quantity: 25 pcs.



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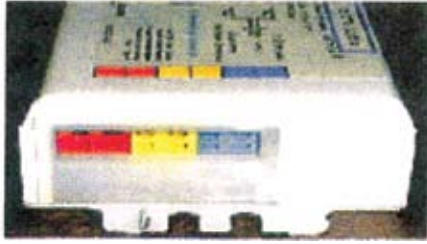
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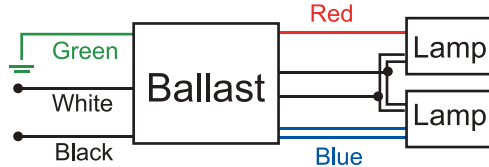
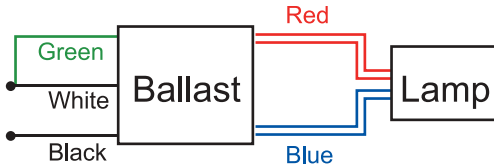
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**CFL ELECTRONIC SMART BALLASTS**



**SIDE VIEW**

**Size: L-5", W-2-3/8", H-1"**



- Preheat rapid start
- Series operation
- High power factor
- Encased & potted
- Sound rated A
- End of lamp life protection
- Meets FCC part 18 (class B)
- Color white
- Weight .8 lb

- Electronic Ballast
- 120 thru 277VAC
- 50/60 Hz.
- Min. starting temp. -20°C
- Max. case temp. 75° C
- Remote mounting 18ft.
- Compatible with Emergency Battery Packs
- UL/cUL class P, type 1 outdoor
- Thermal protection
- No PCB's

**13W**

**ELECTRICAL SPECIFICATION: MRB1213**

Line Voltage (V)	Lamp Type	Lamp Watts	No. of Lamps
120	CFQ13W/G24q	13	2
277	CFTR13W/GX24q		
120	CFQ13W/G24q	13	1
277	CFTR13W/GX24q		
120	CFQ18W/G24q	18	1
277	CFTR18W/GX24q		
120	F14T5	14	2
277			1
120	F14T5	14	1
277			2
120	F13T5	13	2
277			1
120	F13T5	13	1
277			2

**18W**

**ELECTRICAL SPECIFICATION: MRB1218**

Line Voltage (V)	Lamp Type	Lamp Watts	No. of Lamps
120	CFQ13W/GX7	13	2
277			1
120	CFQ18W/G24q	18	2
277			1
120	CFQ18W/G24q	18	1
277			2
120	CFQ26W/G24q	26	1
277			2
120	CFS28W/GR10q	28	1
277			1
120	CFS21W/GR10q	21	1
277			1

**26W**

**ELECTRICAL SPECIFICATION: MRB1226**

Line Voltage (V)	Lamp Type	Lamp Watts	No. of Lamps
120	CFQ26W/G24q	26	2
277			1
120	CFQ26W/G24q	26	1
277			2
120	CFTR32W/GX24q	32	1
277			1
120	CFTR42W/GX24q	42	1
277			1
120	FT24W/2G11	24	2
277			2
120	F24T5HO	24	2
277			2
120	FC16T9	40	1
277			1

**Special Dual Entry - Side and Bottom**

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## ELECTRONIC CFL BALLASTS

### CFL Ballast for (1 or 2) 13, 18 or 26 watt lamps MRAD131826

Features: 120V ac only - Class P 50/60 Hz.  
Rapid start Type 1 outdoor UL/cUL listed  
Starting temp. 0°F. End of life protection.  
Mounting holes 4.5



L- 5", W- 2.4", H- .8"

### Single Lamp Mini Ballast for 13 & 26 watt Electronic Preheat (Rapid start) Normal Power Factor

#### A. MR00113-13 watt

CFQ13W/G24q, CFTR13W/GX24q,  
F13T5 or F8T5

#### B. MR00126-26 watt

CFQ26W/G24q, CFTR26W/GX24q,  
CFS28W/GR10q or F32T8, F25T8, F15T8,  
F13T8, F18T8, F19T8

Class P-Type 1 Outdoor Inherent thermal  
protection 120V ac 50/60 Hz UL & cUL Listed



L- 4", H- 1-1/4", W- 1-7/8"

### Compact Fluorescent Intelligent Ballast

- A. BRC26 - 26W
  - B. BRC42 - 42W
  - C. BRC26-4PIN - 26W
  - D. BRC42-4PIN - 42W
- Available in 108 to 305 volts



### Smart Sensor Electronic Ballast 120V to 277V AC 50/60 Hz.

MQSHB26 - 26, 32, 42W PLT/C  
6-1/2" x 2-7/8" x 1-1/8"

1 or 2 lamp functions, Auto Reset, Plug  
in connectors, UL listed/ cUL Certified,  
Class P thermally protected, End of  
lamp life protection circuit



Soft start, programmed start,  
flicker free, up to 25% energy  
savings, surge protector, four  
pin lamp applications.

## MAGNETIC CFL & CIRCLINE BALLASTS

### Combo Magnetic Ballast

UL & CSA Listed

BH132 -13 W with 12" leads



### Clamp Core

120V AC  
single lamp

normal power factor

L-3-1/16" H-1-3/4" D-1-15/32"

A. B254 - 7-9W B. B255 -13W



### Open Core & Coil

120V AC  
single lamp  
normal power factor  
L-2-3/4" H-1-5/8" D-1-1/4"

A. B252 - 7-9W B. B253 -13W



### Electronic Circline Ballasts

A. BAC22 - 22W

B. BAC32 - 32W



### DC 12

Volt Fluorescent Ballasts

MB-DC12



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**ASSORTED BALLASTS - (ELECTRONIC)**

**Circline Ballasts - Metal**

Model	Input Voltage	Watts	Power Factor	Size
A. BAC22	120V	22W	>0.5	80 x 41 x 33.5
B. BAC32	120V	32W	>0.5	160 x 41 x 33.5
C. BAC3222	120V	54W	>0.5	160 x 41 x 33.5
D. BAC4032	120V	72W	>0.5	160 x 41 x 33.5



**Ballasts - 13W PL**

Model	Input Voltage	Watts	Power Factor	Size
A. BHD113	120V	13W	>0.5	80 x 41 x 33.5
B. BHD213	120V	26W	>0.5	160 x 41 x 33.5
C. BHD313	120V	39W	>0.5	160 x 41 x 33.5



**Circline Ballasts - Plastic**

Model	Input Voltage	Watts	Power Factor	Size
A. BHD22	120V	22W	>0.5	98 x 57 x 30
B. BHD32	120V	32W	>0.5	98 x 57 x 30
C. BHD3222	120V	54W	>0.5	160 x 57 x 30
D. BHD4032	120V	72W	>0.5	160 x 57 x 30



**Ballasts - 18W, 26W PL**

Model	Input Voltage	Watts	Power Factor	Size
A. BHD118	120V	18W	>0.5	84 x 52 x 21
B. BHD126	120V	26W	>0.5	84 x 52 x 21
C. BHD218	120V	2x18W	>0.5	130 x 59 x 21
D. BHD226	120V	2x26W	>0.5	130 x 59 x 21



**Ballasts - Undercabinet Lighting**

Model	Input Voltage	Watts	Power Factor	Size
A. BHD813	120V	8/13W	>0.5	133 x 24 x 22
B. BHD1621	120V	16/26W	>0.5	133 x 24 x 22



**Ballasts - F32 / F40 Fluorescent**

Model	Input Voltage	Watts	Power Factor	Size
A. BHD440	120V	4x40W	>0.5	240 x 42 x 31
B. BHD240	120V	2x40W	>0.5	240 x 42 x 31
C. BHD440277	277V	4x40W	>0.5	240 x 42 x 31



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**HID BALLAST KITS**

**KIT INCLUDES:**

Varies with ballast type, ballast-capacitor, bracket hardware

Each HID kit is individually tested at the factory.

Pre-wired capacitor is designed for 60,000 hours of continuous life.

Precision wound coils ensure even heat dissipation and high electrical integrity.



We carry a large line of pulse rated sockets in medium & mogul bases. We have the lowest prices on HID bulbs and many other accessories. Call our toll free line for assistance. Please specify voltage & watts when ordering

All ballasts are multi-tap 120 / 208 / 240 / 277 volts

**METAL HALIDE HID KITS**

- MHK70 -70W
- MHK100 -100W
- MHK150 -150W
- MHK175 -175W
- MHK250 -250W
- MHK400 -400W
- MHK1000 -1000W
- MHK320PS -320W pulse start
- MHK400PS -400w pulse start

**HIGH PRESSURE SODIUM KITS**

- HPS70 -70W
- HPS100 -100W
- HPS150 -150W
- HPS200 -200W
- HPS400 -400W

**HID TESTER**

**AVAILABLE IN TWO MODELS**

**A. M150** MEDIUM BASE UP TO 150 WATTS

**B. M1000** MOGUL BASE UP TO 1000 WATTS

Suitable for H.I.D. ballasts circuit with a starter. Can be used on high pressure sodium, metal halide, and mercury vapor. Checks starting pulse voltage and open circuit voltage.



Simply screw in and turn on power! Internal lamps indicate if the starter (ignitor) or ballast needs replacement.

**HID MAGNETIC BALLASTS ( Metal Halide )**

**MHBM3539**

35 - 39 Watts



**MHBM150**

150 Watts



**MHBM1000**

1000 Watts



**MHBM50**

50 Watts



**MHBM175**

175 Watts



**MHBM1500**

1500 Watts



**MHBM70**

70 Watts



**MHBM250**

250 Watts



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**HID MAGNETIC BALLASTS ( Metal Halide - Pulse Start )**

**MHBM250PS**  
250 Watts



**MHBM350PS**  
320 - 350 Watts



**MHBM400PS**  
400 Watts



**HID MAGNETIC BALLASTS ( Metal Halide - High Pressure Sodium )**

**MHP535**  
35 Watts



**MHP550**  
50 Watts



**MHP550**  
50 Watts



**MHP5150**  
150 Watts



**MHP5200**  
200 Watts



**MHP5250**  
250 Watts



**MHP5400**  
430 Watts



**MHP5600**  
600 Watts



**MHP5100**  
1000 Watts



**HID MAGNETIC BALLASTS ( Metal Halide - Mercury Vapor )**

**MBMV50**  
50 Watts



**MBMV75**  
75 Watts



**MBMV100**  
100 Watts



**MBMV250**  
50 Watts



**MBMV400**  
75 Watts



**MBMV1000**  
100 Watts



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**HID ELECTRONIC BALLASTS**

- The most compact dimensions in the industry
- Microprocessor-controlled for digital precision and reliability
- MicroStart™ digitally controlled ignition virtually eliminate lamp electrodes and “wall blackening”
- Lumen maintenance: >90% over lamp life
- Universal input voltage: 120 to 277V
- Full range dimming

**MHEB20-39**

20 through 39 Watts



**Miller Smart Electronic Ballast for HID**  
20/39 Watt

Miller Smart Electronic Ballasts for HID 20 watt through 39 watt lighting systems are ideal for a large range of applications. Providing both appealing energy saving solutions and a consistent level of light and color, the Smart Electronic Ballasts for HID are perfect for indoor and outdoor environments, including larger retail stores, hotel lobbies, down lights, street lights, and large showcase. The Smart Electronic Ballasts for HID operate on a full range of lamps and perform effectively and consistently, providing excellent lumen stability. The software-embedded Smart Electronic Ballasts for HID lighting systems reduce energy consumption and deliver the highest levels of improving the efficiency, reliability, size, and cost of the ballast.

**Superior Technology Greater Savings**

With Miller, you get all the energy savings of fluorescent systems plus all the benefits of HID, including greater color temperature, a softer, more comfortable light, and greater performance regardless of ambient temperature. Miller 20 watt through 39 watt HID Electronic Ballasts minimize lumen degradation caused by lamp wall blackening, reduce maintenance costs, and deliver greater color uniformity between lamps.

Features	Benefits
The most compact dimensions in the industry	Allowing for elegant applications; ability to intergrate into any space
Microprocessor-controlled for digital precision and reliability	Extends lamp life; greater efficiency, and reliability
Micro-Start digitally controlled ignition	Lumen consistency; color consistency; virtually eliminate lamp electrodes and “wall blackening”; longer lamp life Lumen maintenance
Universal input voltage: 120 volts to 277 volts	One ballast covers all applications
Full range dimming (optional)	Additional 50% energy savings

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**HID ELECTRONIC BALLASTS**

- The most compact dimensions in the industry
- Microprocessor-controlled for digital precision and reliability
- MicroStart™ digitally controlled ignition virtually eliminate lamp electrodes and “wall blackening”
- Lumen maintenance: >90% over lamp life
- Universal input voltage: 120 to 277V
- Full range dimming

**MHEB50-150**

50 through 150 Watts



**Miller Smart Electronic Ballast for HID**  
50/70/100/150 Watt

Miller Smart Electronic Ballasts for HID 50 watt through 150 watt lighting systems are ideal for a large range of applications. Providing both appealing energy saving solutions and a consistent level of light and color, the Smart Electronic Ballasts for HID are perfect for indoor and outdoor environments, including larger retail stores, hotel lobbies, down lights, street lights, and large showcase. The Smart Electronic Ballasts for HID lighting systems reduce energy consumption and deliver the highest levels of improving the efficiency, reliability, size, and cost of the ballast. They perform effectively and consistently, providing excellent lumen stability, extending lamp life and dramatically reducing the frequency of lamp replacement.

**Superior Technology Greater Savings**

With Miller, you get all the energy savings of fluorescent systems plus all the benefits of HID, including greater color temperature, a softer, more comfortable light, and greater performance regardless of ambient temperature. Miller 50 watt through 150 watt HID Electronic Ballasts minimize lumen degradation caused by lamp wall blackening, reduce maintenance costs, and deliver greater color uniformity between lamps. The dimming feature adds a significant energy saving advantage. Dimming can be controlled in accordance to human activity, daylight harvesting regimes, and interactive operation mode lighting systems.

Features	Benefits
The most compact dimensions in the industry	Allowing for elegant applications; ability to intergrate into any space
Microprocessor-controlled for digital precision and reliability	Extends lamp life; greater efficiency, low components count, higher reliability, compact size
Micro-Start digitally controlled ignition	Lumen consistency; color consistency; virtually eliminate lamp electrodes and “wall blackening”; longer lamp life Lumen maintenance
Full range dimming (optional)	Use only the exact amount of light needed. Significant energy saving
Sodium lamp hot re-strike	Instant relighting after power cuts or turn-off
Universal input voltage: 120 volts to 277 volts	One ballast covers all applications

**USA & CANADA**

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**HID ELECTRONIC BALLASTS**

- The most compact dimensions in the industry
- Microprocessor-controlled for digital precision and reliability
- MicroStart™ digitally controlled ignition virtually eliminate lamp electrodes and “wall blackening”
- Lumen maintenance: >90% over lamp life
- Universal input voltage: 120 to 277V
- Full range dimming

**MHEB250-450**

250 through 450 Watts



**Miller Smart Electronic Ballast for HID**  
250/320/350/400/450 Watt

High frequency Miller Smart Electronic Ballasts for HID 250 watt through 450 watt lighting systems provide dramatic energy savings, drastically reduced maintenance costs, and significantly extended lamp life. The Smart Electronic Ballasts for HID are perfect for demanding indoor and outdoor environments such as supermarkets, malls, industrial sites, parking lots, distribution center, warehouses, and street lighting. The Software embedded within the Smart Electronic Ballasts for HID system improves efficiency, reliability, size, and cost of the ballast. The Smart Ballasts perform effectively and consistently, providing excellent lumen stability, extending lamp life, and dramatically reducing the frequency of lamp replacement.

**Superior Technology Greater Savings**

With Miller, you get all the energy savings of fluorescent systems plus all the benefits of HID, including greater color temperature, a softer, more comfortable light, and greater performance regardless of ambient temperature. Miller 250 watt through 450 watt HID Electronic Ballasts can be integrated with an optional control and communication platform for central monitoring and control. This extends the system’s energy saving capabilities, providing advanced end-of-life alerts and feedback from lamps resulting in reduced maintenance costs. In addition, the platform enables field reconfiguration capabilities that allow for the ballast to be easily configured as per requirements or per lamp parameters including power rating, dimming, settings, and more. Miller leading-edge dimming control feature provides an additional and significant energy saving advantage. Dimming can be controlled in accordance to human activity, dayligh harvesting regimes, and interactive operation mode lighting systems.

Features	Benefits
Microprocessor-controlled for maximum flexibility, digital precision and reliability	Extends lamp life; greater efficiency, low components count, higher reliability, compact size
Micro-Start digitally controlled ignition	Lumen consistency, color consistency, virtually eliminate lamp electrodes and “wall blackening”; longer lamp life
Control & Communication	Extends energy saving capabilities, monitoring, control, reducing maintenance costs, advance end of life alert
Full range dimming (optional)	Use only the exact amount of light needed. Significant energy saving
Automatic scheduling	Automatic control of dimming, on/off functions per lamp
Sodium lamp hot re-strike	Instant relighting after power cuts or turn-off
The most compact dimensions in the industry	Allowing for elegant applications; ability to integrate into smaller space

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