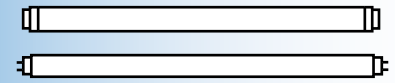


BALLAST SELECTOR GUIDE





| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | | | | |
|----------------------------|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|---------------------|----------------|---------------|-------|-------|-------|-------|---|
| | | | | | | | | | F32T8ES | F28T8 | F25T8 | F17T8 | F40T8 | |
| F32T8 & F32T8/U | | | | | | | | | | | | | | |
| 1 | F32T8 & F32T8/U | 120 - 277 | B132IUNVHP-N | HP Electronic | IS | 0.25 - 0.11 | 30 | 0.88 | X | X | X | X | X | |
| | | | B132IUNVEL-N | ULTim8 | IS | 0.21 - 0.09 | 25 | 0.77 | X | X | X | X | X | |
| | | | B132IUNVHE-N | ULTim8 | IS | 0.25 - 0.11 | 28 | 0.87 | X | X | X | X | X | |
| | | | B132PUNVHE-B | ULTim8 | PRS | 0.24 - 0.11 | 29 | 0.86 | X | X | X | X | | |
| 2 | F32T8 & F32T8/U | 120 | B232I120RES-M | HomeStar | IS | 0.83 | 56 | 0.88 | X | X | X | X | | |
| | | | B232IUNV-C | Std Electronic | IS | 0.48 - 0.20 | 58 - 56 | 0.88 | | | X | X | X | |
| | | 120 - 277 | B232IUNVHP-N | HP Electronic | IS | 0.46 - 0.19 | 55 - 53 | 0.88 | X | X | X | X | X | |
| | | | B232IUNVEL-N | ULTim8 | IS | 0.42 - 0.18 | 49 | 0.77 | X | X | X | X | | |
| | | | B232IUNVHE-N | ULTim8 | IS | 0.47 - 0.20 | 55 | 0.86 | X | X | X | X | X | |
| | | | B232IUNV104-A | Std Electronic | IS | 0.54 - 0.24 | 65 - 64 | 1.04 | X | X | X | X | | |
| | | | B232IUNVHEH-A | ULTim8 | IS | 0.62 - 0.26 | 74 - 72 | 1.18 | X | X | X | X | X | |
| | | | B232PUNVEL-B | ULTim8 | PRS | 0.38 - 0.16 | 46 - 44 | 0.71 | X | X | X | X | X | |
| | | | B232PUNVHE-B | ULTim8 | PRS | 0.46 - 0.20 | 55 - 54 | 0.88 | X | X | X | X | X | |
| | | | B232PUNVHEH-A | ULTim8 | PRS | 0.65 - 0.28 | 77 - 76 | 1.17 | X | X | X | X | | |
| | | | 347 | B232I347EL-A | ULTim8 | IS | 0.15 | 51 | 0.78 | X | X | X | X | X |
| | | | | B232I347HE-A | ULTim8 | IS | 0.17 | 58 | 0.88 | X | X | | X | X |
| | | B232P347HE-A | ULTim8 | PRS | 0.17 | 58 | 0.88 | X | X | X | X | X | | |
| | | 3 | F32T8 & F32T8/U | 120 - 277 | B332IUNVHP-A | HP Electronic | IS | 0.71 - 0.31 | 84 - 83 | 0.88 | X | X | X | X |
| B332IUNVEL-A | ULTim8 | | | | IS | 0.58 - 0.25 | 70 - 69 | 0.77 | X | X | X | X | X | |
| B332IUNVHE-A | ULTim8 | | | | IS | 0.70 - 0.30 | 83 - 81 | 0.87 | X | X | X | X | X | |
| B332PUNVEL-A | ULTim8 | | | | PRS | 0.58 - 0.25 | 70 - 69 | 0.71 | X | X | X | X | X | |
| B332PUNVHE-A | ULTim8 | | | | PRS | 0.70 - 0.30 | 84 - 82 | 0.88 | X | X | X | X | X | |
| B332PUNVHEH-A | ULTim8 | | | | PRS | 0.93 - 0.40 | 112 - 109 | 1.15 | X | X | X | X | | |
| 347 - 480 | B332IHRVHB-E | | | ULTim8 | IS | 0.32 - 0.24 | 110 - 109 | 1.18 | X | X | | | | |
| | B432IUNVHP-A | | | HP Electronic | IS | 0.93 - 0.40 | 112 - 108 | 0.88 | X | X | X | X | X | |
| 4 | F32T8 & F32T8/U | 120 - 277 | B432IUNVEL-A | ULTim8 | IS | 0.80 - 0.34 | 97 - 96 | 0.77 | X | X | X | X | X | |
| | | | B432IUNVHE-A | ULTim8 | IS | 0.91 - 0.38 | 109 - 106 | 0.87 | X | X | X | X | X | |
| | | | B432IUNVHEH-E | ULTim8 | IS | 1.25 - 0.54 | 150 - 146 | 1.15 | X | X | X | X | X | |
| | | | B432PUNVEL-A | ULTim8 | PRS | 0.76 - 0.33 | 91 - 90 | 0.71 | X | X | X | X | X | |
| | | | B432PUNVHE-A | ULTim8 | PRS | 0.91 - 0.39 | 109 - 107 | 0.87 | X | X | X | X | X | |
| | | | B432PUNVHEH-E | ULTim8 | PRS | 1.20 - 0.50 | 143 - 141 | 1.15 | X | X | X | X | | |
| | | | 347 | B432I347EL-A | ULTim8 | IS | 0.28 | 101 | 0.78 | X | X | X | X | X |
| | | | | B432I347HE-A | ULTim8 | IS | 0.32 | 113 | 0.88 | X | X | X | X | X |
| | | B432P347HE-A | ULTim8 | PRS | 0.32 | 113 | 0.88 | X | X | X | X | X | | |

ULTim8 Instant Start are some of the most efficient ballasts in the industry for maximum energy savings.

- Available in high efficiency HE normal (.88), EL low (.77), and HEH high (1.18) ballast factor versions.
- “True” parallel lamp operation: independent lamp operation simplifies troubleshooting, if one lamp fails, the others stay lit.
- Backed by 5 year warranty when operated at 75°C maximum case temperature

ULTim8 Programmed Start ballasts enjoy the same benefits as Instant Start plus:

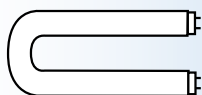
- Available in high efficiency HE normal (.88), EL low (.71), and HEH high (1.18) ballast factor versions.
- Programmed Start models feature “soft start” technology to provide long lamp life in high cycle applications such as motion sensors.
- Same 5 year warranty as instant or 3 year warranty for HEH models when operated at 90C case temperature.



T8

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | |
|----------------|-------|-------------|---------------------|-----------------|------------|---------------------|---------------------|----------------|---------------|-------|-------|
| | | | | | | | | | F96T8ES | F72T8 | F48T8 |
| Long T8 | | | | | | | | | | | |
| 1 | F72T8 | 120 | B244I120HE | High Efficiency | IS | 0.42 | 50 | 1.03 | | X | X |
| | | 277 | B244I277HE-A | High Efficiency | IS | 0.19 | 52 | 1.04 | | X | X |
| | F96T8 | 120 - 277 | B259IUNVHP-A | HP Electronic | IS | 0.60 - 0.26 | 72 - 71 | 1.08 | | | |
| | | | B259IUNVEL-A | ULTim8 | IS | 0.54 - 0.24 | 64 | 0.99 | X | | |
| | | 347 | B259I347HP | HP Electronic | IS | 0.20 | 68 | 1.05 | | | |
| 2 | F72T8 | 120 | B244I120HE | High Efficiency | IS | 0.70 | 82 | 0.88 | | X | X |
| | | 277 | B244I277HE-A | High Efficiency | IS | 0.30 | 82 | 0.87 | | X | X |
| | F96T8 | 120 - 277 | B259IUNVHP-A | HP Electronic | IS | 0.95 - 0.40 | 113 - 110 | 0.88 | | | |
| | | | B259IUNVEL-A | ULTim8 | IS | 0.84 - 0.36 | 101 - 99 | 0.78 | X | | |
| | | 347 | B259I347HP | HP Electronic | IS | 0.33 | 113 | 0.89 | X | | |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | |
|--------------|---------|-------------|---------------------|----------------|------------|---------------------|---------------------|----------------|---------------|---------|---------|
| | | | | | | | | | F48T8HO | F60T8HO | F72T8HO |
| T8HO | | | | | | | | | | | |
| 1 | F96T8HO | 120 - 277 | B286PUNVHE-S | ULTim8 | PS | 0.80 - 0.36 | 96 | 1.00 | X | | |
| 2 | F96T8HO | 120 - 277 | B286PUNVHE-S | ULTim8 | PS | 1.57 - 0.67 | 187 - 184 | 0.95 | X | | |



T12

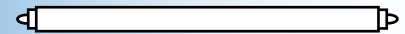
| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Standard Lamps | | | Energy Saving Lamps | | |
|------------------------------|-------------------|-------------|---------------------|----------------|------------|---------------------|---------------------|----------------|---------------------|---------------------|----------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Line Current (Amps) | Input Power (Watts) | Ballast Factor |
| F40T12 & F40T12/U | | | | | | | | | | | |
| 2 | F40T12 & F40T12/U | 120 | B234SR120M-A | Basic-12 | RS | 0.63 | 71 | 0.9 | 0.49 | 59 | 0.86 |

T12: HO & VHO

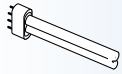


| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | |
|----------------|----------------|-------------|---------------------|----------------|------------|---------------------|---------------------|----------------|---------------|----------|----------|
| | | | | | | | | | F72T12HO | F60T12HO | F48T12HO |
| Long T8 | | | | | | | | | | | |
| 1 | F96T12HO | 227 | B295PUNVHE-S | Basic-12 | PS | 0.88 - 0.38 | 104 - 103 | 0.92 | X | X | X |
| | F96T12HOES-95W | 227 | B295PUNVHE-S | Basic-12 | PS | 0.73 - 0.32 | 87 | 0.92 | X | X | X |
| 2 | F96T12HO | 227 | B295PUNVHE-S | Basic-12 | PS | 1.72 - .72 | 204 - 197 | 0.88 | X | X | X |
| | F96T12HOES-95W | 227 | B295PUNVHE-S | Basic-12 | PS | 1.45 - 0.61 | 170 - 167 | 0.88 | X | X | X |

T12: SLIMLINE



| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Standard Lamps | | | Energy Saving Lamps | | |
|--------------|--------|-------------|--------------------|----------------|------------|---------------------------------------|---------------------|----------------|---------------------|---------------------|----------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Line Current (Amps) | Input Power (Watts) | Ballast Factor |
| 1 | F48T12 | 120 - 277 | B260IUNVHP | Basic-12 | IS | .39 - .18 | 47 | 1.1 | .32 - .15 | 38 - 39 | 1.1 |
| 2 | | | | | | .61 - .27 | 75 - 74 | 0.95 | .57 - .25 | 67 - 66 | 0.93 |
| 1 | F60T12 | 120 - 277 | B260IUNVHP | Basic-12 | IS | 0.49 - 0.22 | 58 | 1.1 | - | - | - |
| 2 | | | | | | 0.77 - 0.33 | 92 - 91 | 0.92 | - | - | - |
| 1 | F72T12 | 120 - 277 | B260IUNVHP | Basic-12 | IS | 0.55 - 0.25 | 68 - 67 | 1.06 | - | - | - |
| 2 | | | | | | 0.09 - 0.39 | 109 - 107 | 0.91 | - | - | - |
| 1 | F96T12 | 120 - 277 | B260IUNVHP | Basic-12 | IS | 0.70 - 0.31 | 85 - 84 | 1.05 | 0.59 - 0.26 | 72 - 70 | 1.03 |
| 2 | | 120 | B260I120M-A | | | For use only with Energy Saving Lamps | | 0.93 | 107 | 0.88 | |
| | | 120 - 277 | B260IUNVHP | | | 1.16 - 0.50 | 139 - 137 | 0.88 | 0.96 - 0.40 | 112 - 110 | 0.88 |



LONG TWIN T5

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Also Operates | | |
|--------------|------------|-------------|---------------------|----------------|------------|---------------------|---------------------|----------------|---------------|---------|---------|
| | | | | | | | | | F54T5HO | F24T5HO | F39T5HO |
| 1 | FT18W/2G11 | 120 - 277 | CT218UNVME | CF Electronic | PRS | 0.19 - 0.07 | 23 | 1.00 | | | |
| 2 | | | CT218UNVME | CF Electronic | PRS | 0.37 - 0.16 | 42 | 0.98 | | | |
| 1 | FT24W/2G11 | 120 - 277 | C2642UNVME | CF Electronic | PRS | 0.22 - 0.10 | 26 | 1.01 | | | |
| | | | B224PUNV-C | Accustart T5 | PRS | 0.23 - 0.10 | 27 | 1.02 | | X | X |
| | | 347 | C2642/347ME | CF Electronic | PRS | 0.09 | 29 | 0.90 | | | |
| 2 | FT24W/2G11 | 120 - 277 | C2642UNVME | CF Electronic | PRS | 0.40 - 0.18 | 47 - 49 | 0.98 | | | |
| | | | C242UNVME | CF Electronic | PRS | 0.43 - 0.19 | 51 - 50 | 1.02 | | | |
| | | | B224PUNV-C | Accustart T5 | PRS | 0.43 - 0.18 | 52 - 51 | 1.00 | | X | |
| | | 347 | C242/347ME | CF Electronic | PRS | 0.14 | 49 | 1.02 | | | |
| 1 | FT36W/2G11 | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.29 - 0.14 | 34 - 33 | 0.88 | | | |
| | | | B224PUNV-C | Accustart T5 | PRS | 0.30 - 0.13 | 36 | 0.90 | | X | X |
| | | | B254PUNV-D | Accustart T5 | PRS | 0.37 - 0.18 | 45 | 1.22 | X | | |
| 2 | FT36W/2G11 | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.57 - 0.25 | 64 | 0.83 | | | |
| | | | B239PUNV-D | Accustart T5 | PRS | 0.59 - 0.26 | 71 - 70 | 0.94 | | X | X |
| | | | B254PUNV-D | Accustart T5 | PRS | 0.73 - 0.30 | 87 | 1.20 | X | | |
| | | 347 | C242/347ME | CF Electronic | PRS | 0.19 | 64 | 0.90 | | | |
| 1 | FT40W/2G11 | 120 | C240SI120RH | Std Electronic | IS | 0.40 | 40 | 1.02 | | | |
| | | 277 | C240SI277RH | Std Electronic | IS | 0.17 | 40 | 1.02 | | | |
| | | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.40 - 0.18 | 47 | 1.08 | | | |
| | | | C240PUNVHP-B | HP Electronic | PRS | 0.34 - 0.15 | 41 - 40 | 1.00 | | | |
| 2 | FT40W/2G11 | 120 | C240SI120RH | Std Electronic | IS | 0.61 | 67 | 0.88 | | | |
| | | 277 | C240SI277RH | Std Electronic | IS | 0.27 | 67 | 0.88 | | | |
| | | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.78 - 0.34 | 93 - 87 | 1.00 | | | |
| | | | C240PUNVHP-B | HP Electronic | PRS | 0.63 - 0.27 | 76 - 73 | 0.90 | | | |
| 1 | FT50W/2G11 | 120 - 277 | B254PUNV-D | Accustart T5 | PRS | 0.47 - 0.21 | 57 | 1.00 | X | | |
| | | 347 | B254P347-D | Accustart T5 | PRS | 0.17 | 58 | 1.12 | X | | |
| | | 347 - 480 | B254PHRVHB-E | Accustart T5 | PRS | 0.19 - 0.15 | 65 | 1.12 | X | | |
| 2 | FT50W/2G11 | 120 - 277 | B254PUNV-D | Accustart T5 | PRS | 0.93 - 0.40 | 111 - 108 | 1.00 | X | | |
| | | 347 | B254P347-D | Accustart T5 | PRS | 0.31 | 106 | 1.10 | X | | |
| | | 347 - 480 | B254PHRVHB-E | Accustart T5 | PRS | 0.33 - 0.25 | 115 - 114 | 1.10 | X | | |
| 3 | FT50W/2G11 | 120 - 277 | B454PUNV-E | Accustart T5 | PRS | 1.49 - 0.64 | 179 - 177 | 1.13 | X | | |
| 4 | FT50W/2G11 | 120 - 277 | B454PUNV-E | Accustart T5 | PRS | 1.98 - 0.84 | 240 - 235 | 1.10 | X | | |
| | | | B454PUNVHB-E | Accustart T5 | PRS | 1.98 - 0.84 | 240 - 235 | 1.10 | X | | |
| 1 | FT55W/2G11 | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.38 - 0.17 | 46 | 0.83 | | | |
| | | | B254PUNV-D | Accustart T5 | PRS | 0.47 - 0.21 | 56 | 1.00 | X | | |
| | | 347 | C242/347ME | CF Electronic | PRS | 0.13 | 43 | 0.83 | | | |
| | | | B254P347-D | Accustart T5 | PRS | 0.17 | 57 | 0.92 | X | | |
| | | 347 - 480 | B254PHRVHB-E | Accustart T5 | PRS | 0.19 - 0.14 | 61 | 0.92 | X | | |
| 2 | FT55W/2G11 | 120 - 277 | B254PUNV-D | Accustart T5 | PRS | 0.93 - 0.39 | 112 - 109 | 1.00 | X | | |
| | | 347 | B254P347-D | Accustart T5 | PRS | 0.30 | 102 | 0.90 | X | | |
| | | 347 - 480 | B254PHRVHB-E | Accustart T5 | PRS | 0.33 - 0.24 | 109 - 108 | 0.90 | X | | |
| 3 | FT55W/2G11 | 120 - 277 | B454PUNV-E | Accustart T5 | PRS | 1.45 - 0.62 | 174 - 171 | 0.93 | X | | |
| 4 | FT55W/2G11 | 120 - 277 | B454PUNV-E | Accustart T5 | PRS | 1.91 - 0.80 | 229 - 223 | 0.90 | X | | |
| | | | B454PUNVHB-E | Accustart T5 | PRS | 1.91 - 0.80 | 229 - 223 | 0.90 | X | | |

T5: STD & HO



| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Primary Lamp | | | Also Operates | |
|--------------|-------|-------------|---------------|----------------|------------|---------------------|---------------------|----------------|---------------|-------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F14T5 | F21T5 |
| 2 | F28T5 | 120 - 277 | B228PUNV85-D | Accustart T5 | PRS | 0.48 - 0.21 | 54 - 53 | 0.85 | X | X |
| | | | B228PUNV90-C | Accustart T5 | PRS | 0.48 - 0.21 | 58 - 56 | 0.90 | X | X |
| | | | B228PUNV95-D | Accustart T5 | PRS | 0.51 - 0.22 | 61 - 60 | 0.95 | X | X |
| | | | B228PUNV-C | Accustart T5 | PRS | 0.55 - 0.23 | 63 - 61 | 1.00 | X | X |
| | | | B228PUNV-N | Accustart T5 | PRS | 0.55 - 0.23 | 66 - 64 | 1.00 | X | X |
| | | | B228PUNV115-D | Accustart T5 | PRS | 0.59 - 0.25 | 69 - 68 | 1.15 | X | X |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Primary Lamp | | | Also Operates | |
|--------------|---------|-------------|-------------|----------------|------------|---------------------|---------------------|----------------|---------------|------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F39T5HO | FT36W/2G11 |
| 1 | F24T5HO | 120 - 277 | B224PUNV-C | Accustart T5 | PRS | 0.19 - 0.10 | 28 | 1.02 | X | X |
| 2 | F24T5HO | 120 - 277 | B224PUNV-C | Accustart T5 | PRS | 0.45 - 0.23 | 53 - 52 | 1.00 | X | X |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Primary Lamp | | | Also Operates | |
|--------------|---------|-------------|-------------|----------------|------------|---------------------|---------------------|----------------|---------------|------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | FT50W/2G11 | FT55W/2G11 |
| 1 | F39T5HO | 120 - 277 | B239PUNV-D | Accustart T5 | PRS | 0.32 - 0.18 | 47 | 1.02 | X | X |
| 2 | F39T5HO | 120 - 277 | B239PUNV-D | Accustart T5 | PRS | 0.75 - 0.39 | 89 - 88 | 1.00 | X | X |

| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Primary Lamp | | | Also Operates | |
|--------------|---------|-------------|--------------|----------------|------------|---------------------|---------------------|----------------|---------------|-------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | F14T5 | F21T5 |
| 1 | F54T5HO | 120 - 277 | B254PUNV-D | Accustart T5 | PRS | 0.54 - 0.24 | 64 | 1.02 | X | X |
| | | 347 - 480 | B254PHRVHB-E | Accustart T5 | PRS | 0.19 - 0.15 | 66 | 1.02 | X | X |
| 2 | F54T5HO | 120 - 277 | B254PUNV-D | Accustart T5 | PRS | 1.03 - 0.43 | 120 - 117 | 1.00 | X | X |
| | | | B254PUNVHB-D | Accustart T5 | PRS | 0.96 - 0.41 | 116 - 113 | 1.00 | X | X |
| | | 347 | B254P347-D | Accustart T5 | PRS | 0.35 | 120 | 1.00 | X | X |
| | | 347 - 480 | B254PHRVHB-E | Accustart T5 | PRS | 0.35 - 0.26 | 120 - 119 | 1.00 | X | X |
| 3 | F54T5HO | 120 - 277 | B454PUNV-E | Accustart T5 | PRS | 1.52 - 0.66 | 181 - 178 | 1.05 | X | X |
| 4 | F54T5HO | 120 - 277 | B454PUNV-E | Accustart T5 | PRS | 2.01 - 0.86 | 240 - 234 | 1.00 | X | X |
| | | | B454PUNVHB-E | Accustart T5 | PRS | 1.96 - 0.84 | 235 - 229 | 1.00 | X | X |



| No. of Lamps | Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | Primary Lamp | | | Also Operates | |
|--------------|------------------------|-------------|--------------------|----------------|------------|---------------------|---------------------|----------------|---------------|--------------|
| | | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | CFS28W/GR10q | CFS38W/GR10q |
| 1 | FC9T5-22W | 120 - 277 | C2642UNVME | CF Electronic | PRS | 0.21 - 0.10 | 25 | 1.00 | X | X |
| | | 347 | C2642/347ME | CF Electronic | PRS | 0.08 | 26 | 0.98 | X | |
| 2 | FC9T5-22W | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.42 - 0.19 | 50 | 1.05 | X | |
| | | 347 | C242/347ME | CF Electronic | PRS | 0.14 | 47 | 1.05 | X | |
| 1 | FC12T5-40W | 120 - 277 | C2642UNVME | CF Electronic | PRS | 0.35 - 0.16 | 42 | 0.98 | X | X |
| | | 347 | C2642/347ME | CF Electronic | PRS | 0.12 | 40 | 0.98 | X | |
| 2 | FC12T5-40W | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.65 - 0.29 | 80 - 79 | 0.98 | X | |
| | | 347 | C242/347ME | CF Electronic | PRS | 0.22 | 71 | 0.98 | X | |
| 1 & 1 | FC9T5-22W & FC12T5-40W | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.54 - 0.24 | 66 - 64 | 0.98 | X | |
| | | 347 | C242/347ME | CF Electronic | PRS | 0.18 | 59 | 0.98 | X | |
| 1 | FC12T5-55W | 120 - 277 | B254PUNV-D | Accustart T5 | PRS | 0.45 - 0.20 | 55 | 1.00 | | |
| 2 | FC12T5-55W | 120 - 277 | B254PUNV-D | Accustart T5 | PRS | 0.88 - 0.38 | 107 - 104 | 1.00 | | |



COMPACT

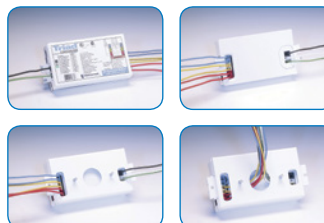
| Lamp | Input Volts | Catalog Nbr | Ballast Family | Start Type | One Lamp | | | Two Lamp | | |
|-----------------------|-------------|--------------------|----------------|------------|---------------------|---------------------|----------------|---------------------|---------------------|----------------|
| | | | | | Line Current (Amps) | Input Power (Watts) | Ballast Factor | Line Current (Amps) | Input Power (Watts) | Ballast Factor |
| 13W/G24q or 13W/GX24q | 120 - 277 | C213UNVME | CF Electronic | PRS | 0.15 - 0.07 | 18 | 1.00 | 0.26 - 0.11 | 30 | 1.00 |
| | 347 | C213/347ME | CF Electronic | PRS | 0.06 | 18 | 1.00 | 0.10 | 33 | 0.98 |
| 13W/2GX7 | 120 - 277 | CT213UNVME | CF Electronic | PRS | 0.12 - 0.06 | 15 | 0.98 | 0.22 - 0.10 | 26 | 0.98 |
| 18W/G24q or 18W/GX24q | 120 - 277 | C218UNVME | CF Electronic | PRS | 0.16 - 0.07 | 19 | 1.00 | 0.30 - 0.13 | 35 | 0.95 |
| | 347 | C218/347ME | CF Electronic | PRS | 0.06 | 21 | 1.00 | 0.11 | 38 | 0.98 |
| 18W/2G11/RS | 120 - 277 | CT218UNVME | CF Electronic | PRS | 0.19 - 0.07 | 23 | 1.00 | 0.37 - 0.16 | 43 - 42 | 0.98 |
| 26W/G24q or 26W/GX24q | 120 - 277 | C2642UNVME | CF Electronic | PRS | 0.25 - 0.11 | 28 | 1.02 | 0.47 - 0.21 | 56 | 0.98 |
| | | C242UNVME | CF Electronic | PRS | - | - | - | 0.46 - 0.20 | 56 - 55 | 1.02 |
| | 347 | C2642/347ME | CF Electronic | PRS | 0.09 | 31 | 1.02 | 0.17 | 57 | 0.98 |
| | | C242/347ME | CF Electronic | PRS | - | - | - | 0.14 | 44 | 1.02 |
| 32W/GX24q | 120 - 277 | C2642UNVME | CF Electronic | PRS | 0.30 - 0.13 | 36 | 1.00 | - | - | - |
| | | C242UNVME | CF Electronic | PRS | - | - | - | 0.58 - 0.26 | 69 - 67 | 1.00 |
| | 347 | C2642/347ME | CF Electronic | PRS | 0.11 | 36 | 0.98 | - | - | - |
| | | C242/347ME | CF Electronic | PRS | - | - | - | 0.19 | 62 | 1.00 |
| 42W/GX24q | 120 - 277 | C2642UNVME | CF Electronic | PRS | 0.41 - 0.18 | 48 | 0.98 | - | - | - |
| | | C242UNVME | CF Electronic | PRS | 0.40 - 0.18 | 45 | 1.00 | 0.76 - 0.32 | 91 - 90 | 0.98 |
| | 347 | C2642/347ME | CF Electronic | PRS | 0.15 | 50 | 1.00 | - | - | - |
| | | C242/347ME | CF Electronic | PRS | 0.13 | 42 | 1.00 | 0.25 | 80 | 0.98 |
| 57W/GX24q | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.52 - 0.21 | 58 - 57 | 1.00 | - | - | - |
| | 347 | C242/347ME | CF Electronic | PRS | 0.18 | 61 | 1.00 | - | - | - |
| 70W/GX24q | 120 - 277 | C242UNVME | CF Electronic | PRS | 0.61 - 0.27 | 73 - 72 | 1.00 | - | - | - |
| | 347 | C242/347ME | CF Electronic | PRS | 0.21 | 74 | 1.00 | - | - | - |

ME - Side and Bottom Exit Terminals

Fits Virtually Every J-box Cover & Fixture Application



The Multi-Exit ballast lead wire connectors accommodate side and bottom lead exit requirements, and the Snap mount adapter plate adds bottom-exit studs and additional flexibility for replacement of older magnetic ballasts.

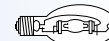


Multi-E Kits Contain

- Multi-Exit Ballast
- Snap-mount adapter plate
- Lead wire set
- Wire extraction tool
- Instructions

Multi-E Kit Products:

- C213UNVME000K
- C218UNVME000K
- C2642UNVME000K



| Lamp Type | Lamp Watts | ANSI Code | Input Volts | Catalog Nbr | Circuit Type | Input Power (Watts) | Max. Input Current |
|----------------------|------------|-----------|---------------------|------------------|------------------|---------------------|--------------------------|
| High Pressure Sodium | 35 W | S76 | 120 | S35120RCCEM500K | Reactor | 43 | 1.15/0.68 |
| | | | 120 | S50120RCCEM500K | Reactor | 60 | 1.50/0.90 |
| | 50 W | S68 | 120/208/240/277 | S50MLTLC3M500K | HX-HPF | 64 | 1.24/0.60/0.52/0.45 |
| | | | 120 | S70120RCCEM000K | Reactor | 83 | 2.10/0.90 |
| | 70 W | S62 | 480 | S7048TLC3M500K | HX-HPF | 94 | 0.34 |
| | | | 120/208/240/277 | S70MLTLC3M500K | HX-HPF | 94 | 1.40/0.83/0.72/0.62 |
| | | | 120 | S100120RCCEM000K | Reactor | 117 | 2.90/1.80 |
| | 100 W | S54 | 480 | S10048TLC3M500K | HX-HPF | 135 | 0.57 |
| | | | 120/208/240/277 | S100MLTLC3M500K | HX-HPF | 122 | 2.20/1.30/1.10/0.95 |
| | | | 120 | S150120RCCEM000K | Reactor | 171 | 4.40/2.20 |
| | 150 W | S55 | 480 (120V Aux) | S15048TLC3M500K | HX-HPF | 189 | 0.72 |
| | | | 120/208/240/277 | S150MLTLC3M500K | HX-HPF | 188 | 3.00/1.65/1.50/1.30 |
| | | | 480 (120V Aux) | S20048TAC4M500K | CWA | 245 | 0.56 |
| | 200 W | S66 | 120/208/240/277 | S200MLTAC4M500K | CWA | 230 | 2.10/1.20/1.00/0.88 |
| | | | 480 | S25048TAC4M500K | CWA | 285 | 0.62 |
| | 250 W | S50 | 120/208/240/277/480 | S250ML5AC40500K | CWA | 300 | 2.50/1.55/1.25/1.05/0.65 |
| | | | 120/208/240/277 | S250MLTAC4M500K | CWA | 300 | 2.60/1.55/1.30/1.15 |
| | | | 480 | S40048TAC4M500K | CWA | 465 | 1.10 |
| | 400 W | S51 | 120/208/240/277/480 | S40048TAC5M500K | CWA | 467 | 1.05 |
| | | | | S400ML5AC4M500K | CWA | 465 | 4.00/2.30/2.00/1.70/1.10 |
| | | | | S400ML5AC5M500K | CWA | 468 | 4.40/2.62/2.21/1.90/1.05 |
| | | | 120/208/240/277 | S400MLTAC4M500K | CWA | 440 | 3.80/2.20/1.80/1.60 |
| | | | | S400MLTAC5M500K | CWA | 470 | 4.00/2.30/2.00/1.80 |
| | | | | 480 (120V Aux) | S100048TAC5M500K | CWA | 1100 |
| | 1000 W | S52 | 120/208/240/277/480 | S1000ML5AC5M500K | CWA | 1048 | 9.10/5.40/4.60/4.10/2.45 |
| | | | | S1000ML5AW5M500K | CWA | 1048 | 9.10/5.40/4.60/4.10/2.40 |
| | | | 120/208/240/277 | S1000MLTAC5M500K | CWA | 1100 | 9.50/5.50/4.80/4.20 |

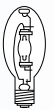


Universal HID Ballast Kits provide everything you need for an easy ballast replacement:

- Adjustable mounting brackets for various mounting configurations
- Pre-wired Capacitor and Ignitor to speed and simplify installation
- Color Coded Leads for easy identification
- Vacuum impregnated for cool and quiet operation



| Lamp Type | Lamp Watts | ANSI Code | Input Volts | Catalog Nbr | Circuit Type | Input Power (Watts) | Max. Input Current |
|--------------------------|---------------------|------------------------|-------------------------|-------------------------|--------------|--------------------------|--------------------------|
| Metal Halide | 175 W | M57 | 120/277 | M1110-2455C-TC | F-Can | 205 | 1.75/0.75 |
| | | M57 or M107 | 480 | M17548TAC3M500K | CWA | 200 | 0.51 |
| | | | 120/208/240/277/480 | M175ML5AC3M500K | CWA | 208/210 | 1.90/1.10/0.95/0.85/0.50 |
| | | | 120/208/240/277 | M175MLTAC3M500K | CWA | 205 | 1.82/1.13/0.93/0.85 |
| | 250 W | M58 | 120/208/240/277 | M250MLTAE3M | CWA | 294 | 2.60/1.58/1.30/1.12 |
| | | | 120/277 | M1110-2465C-TC | F-Can | 295 | 2.50/1.10 |
| | | | 480 | M25048TAC4M500K | CWA | 284 | 0.61 |
| | | | 120/208/277/480 | M250ML5AC3M500K | CWA | 280 | 2.50/1.50/1.25/1.10/0.65 |
| | | | 120/208/240/277/480 | M250ML5AC4M500K | CWA | 282 | 2.42/1.40/1.20/1.00/0.60 |
| | | | 120/208/240/277 | M250MLTAC3M500K | CWA | 297 | 2.65/1.58/1.30/1.13 |
| | | | | M250MLTAC4M500K | CWA | 290 | 3.05/1.65/1.55/1.25 |
| | | | 400 W | M59 | 120/277 | M1110-2475C-TC | F-Can |
| | 480 | M40027TAC4M | | | CWA | 458 | 3.94/1.69 |
| | | M400480AC4M | | | CWA | 458 | 1.00 |
| | 120/208/240/277/480 | M400ML5AC4M500K | | | CWA | 458 | 4.00/2.30/2.00/1.70/1.00 |
| | 120/208/240/277 | M400MLTAC4M500K | | | CWA | 458 | 3.94/2.20/1.93/1.69 |
| | 1000 W | M47 | 480 | M40048TAC4M500K | CWA | 458 | 1.00 |
| | | | 120,480 | M100048TAC5M500K | CWA | 1060 | 8.80/2.30 |
| | | | 120/208/240/277/480 | M1000ML5AC5M500K | CWA | 1060 | 8.80/5.20/4.40/3.90/2.30 |
| | | | 120/208/240/277 | M1000MLTAC5M500K | CWA | 1080 | 8.50/5.00/4.50/3.80 |
| 1500 W | M48 | 480 (120V Aux) | M150048TAC5M500K | CWA | 1610 | 3.50 | |
| | | 120/208/240/277 | M1500MLTAC5M500K | CWA | 1610 | 14.00/8.00/7.00/6.00 | |
| Pulse Start Metal Halide | 35 W | M130 | 120/208/240/277 | M35MLTLC3M500K | HX-HPF | 50 | 0.82/0.48/0.42/0.36 |
| | 50 W | M110 | 120/277 | M11210-236C-TC | F-Can | 70 | 0.64/0.65 |
| | | | 120/208/240/277 | M50MLTLC3M500K | HX-HPF | 67 | 1.16/0.67/0.57/0.50 |
| | 70 W | M85 (Double Ended) | 120/277 | M11210-277C-TC | F-Can | 98 | 2.00/0.90 |
| | | | 120/208/240/277 | M70MLTLC3D500K | HX-HPF | 95 | 1.70/1.04/0.87/0.78 |
| | | M98 | 120/277 | M11210-506C-TC | F-Can | 90 | 2.00/0.90 |
| | | | 480 | M7048TLC3M500K | HX-HPF | 95 | 0.50 |
| | 100 W | M90, M92, or M140 | 120/208/240/277 | M70MLTLC3M500K | HX-HPF | 95 | 1.70/1.04/0.87/0.78 |
| | | | 120/277 | M11210-239C-TC | F-Can | 125 | 2.20/1.00 |
| | | | 480 | M10048TLC3M500K | HX-HPF | 140 | 0.62 |
| | | | 120/208/240/277 | M100MLTLC30500K | HX-HPF | 127 | 2.60/1.55/1.30/1.15 |
| | 150 W | M91 (double ended) | 120/208/240/277 | M100MLTLC3D500K | HX-HPF | 130 | 2.30/1.30/1.10/0.95 |
| | | | 120/277 | M11210-539C-TC | F-Can | 185 | 3.70/1.60 |
| | | | 120/208/240/277 | M150MLTLC3M500K | HX-HPF | 185 | 3.32/1.93/1.66/1.48 |
| | | M102 or M142 | 120/208/240/277 | M150MLTAC3M500K | CWA | 188 | 1.60/1.00/0.80/0.70 |
| | | | 480 | M15048TLC3M500K | HX-HPF | 180 | 1.00 |
| | | | 120/277 | M11210-242C-TC | F-Can | 185 | 3.70/1.60 |
| | | M81 (double ended) | 120/208/240/277 | M150MLTLC3D500K | HX-HPF | 185 | 3.32/1.93/1.66/1.48 |
| | | | 277 | P175277RCEM500K | Reactor | 202 | 1.50/1.25 |
| | 175 W | M137 or M152 | 480-120 | P17548TAC3M500K | CWA | 285 | 0.46 |
| | | | 480-120 | P17548TAC4L500K | CWA | 198 | 0.40 |
| | | | 120/208/240/277/480 | P175ML5AC3M500K | CWA | 285 | 1.80/1.10/0.90/0.78/0.45 |
| | | | 120/208/240/277 | P175MLTAC3M500K | CWA | 208 | 1.86/1.23/0.98/0.87 |
| | | | 120/208/240/277 | P175MLTAC3L500K | CWA | 198 | 1.95/1.10/1.00/0.80 |
| | | | 120/208/240/277 | P175MLTAC4L500K | CWA | 198 | 1.70/0.95/0.85/0.75 |
| | 200 W | M136 | 277 | P200277RCEM500K | Reactor | 218 | 1.80/1.35 |
| | | | 120/208/240/277/480 | P200ML5AC3M500K | CWA | 233 | 2.66/1.52/1.31/1.12/0.68 |
| | 250 W | M138 or M153 | 277 | P250277RCEM500K | Reactor | 278 | 2.00/1.82 |
| | | | 480-120 | P25048TAC4L500K | CWA | 275 | 0.60 |
| | | | 120/208/240/277/480 | P250ML5AC4M500K | CWA | 285 | 2.45/1.42/1.22/1.05/0.62 |
| 120/208/240/277 | | | P250MLTAC4L500K | CWA | 283 | 2.60/1.50/1.30/1.10 | |
| 320 W | M132 | 277 | P320277RCEM500K | Reactor | 358 | 3.70/1.65 | |
| | | 120/480 | P32048TAC4L500K | CWA | 364 | 0.80/1.06 | |
| | M132 or M154 | 120/208/240/277/480 | P320ML5AC4L500K | CWA | 363 | 3.10/1.80/1.55/1.35/0.80 | |
| | | 120/208/240/277 | P320MLTAC4O500K | CWA | 365 | 4.10/2.50/2.00/1.85 | |



| Lamp Type | Lamp Watts | ANSI Code | Input Volts | Catalog Nbr | Circuit Type | Input Power (Watts) | Max. Input Current |
|--------------------------|------------|-----------|---------------------|------------------|--------------|---------------------|--------------------------|
| Pulse Start Metal Halide | 350 W | M131 | 277 | P350277RC500K | Reactor | 377 | 3.80/2.34 |
| | | | 480-120 | P35048TAC4O500K | CWA | 398 | 0.85 |
| | | | 120/208/240/277/480 | P350ML5AC4O500K | CWA | 397 | 3.35/1.85/1.65/1.40/0.80 |
| | | | 120/208/240/277 | P350MLTAC4O500K | CWA | 397 | 3.25/1.80/1.60/1.40 |
| | 400 W | M155 | 480-120 | P40048TAC4L500K | CWA | 454 | 1.00 |
| | | | 120/208/240/277/480 | P400ML5AC4L500K | CWA | 454 | 3.90/2.25/1.90/1.65/0.95 |
| | | | 120/208/240/277 | P400MLTAC4L500K | CWA | 454 | 3.90/2.25/1.95/1.70 |
| | 450 W | M144 | 120/480 | P45048TAC4L500K | CWA | 511 | 1.05 |
| | | | 120/208/240/277/480 | P450ML5AC4L500K | CWA | 508 | 4.10/2.35/2.05/1.85/1.05 |
| | | | 120/208/240/277 | P450MLTAC4L500K | CWA | 508 | 4.35/2.55/2.15/1.90 |
| | 750 W | M149 | 480 (120V Aux) | P75048TAC5M500K | CWA | 822 | 1.80 |
| | | | 120/208/240/277/480 | P750ML5AC5M500K | CWA | 820 | 6.95/4.00/3.50/3.00/1.75 |
| | | | 120/208/240/277 | P750MLTAC5M500K | CWA | 825 | 7.10/4.10/3.55/3.10 |
| | 875W | M166 | 120/208/240/277 | P875MLTAC5M500K | CWA | 945 | 7.90/4.55/3.95/3.45 |
| | 1000 W | M141 | 480 (120V Aux) | P100048TAC5M500K | CWA | 1080 | 2.25 |
| | | | 120/208/240/277/480 | P1000ML5AC5M500K | CWA | 1080 | 8.95/5.15/4.45/3.85/2.25 |
| 120/208/240/277 | | | P1000MLTAC5M500K | CWA | 1070 | 8.80/5.10/4.50/4.10 | |

MULTI-5 UNI-PAK

| Lamp Type | Lamp Watts | ANSI Code | Input Volts | Catalog Nbr | Circuit Type | Input Power (Watts) | Max. Input Current |
|--------------------------|------------|-----------|---------------------|------------------|--------------|---------------------|--------------------------|
| High Pressure Sodium | 250 W | S50 | 120/208/240/277/480 | S250ML5AC4O555K | CWA | 300 | 2.50/1.55/1.25/1.05/0.65 |
| | 500 W | S51 | 120/208/240/277/480 | S400ML5AC4M555K | CWA | 465 | 4.00/2.30/2.00/1.70/1.10 |
| | 1000 W | S52 | 120/208/240/277/480 | S1000ML5AC5M555K | CWA | 1048 | 9.10/5.40/4.60/4.10/2.45 |
| Metal Halide | 175 W | M57 | 120/208/240/277/480 | M175ML5AC3M555K | CWA | 208/210 | 1.90/1.10/0.95/0.85/0.50 |
| | 250 W | M58 | 120/208/240/277/480 | M250ML5AC3M555K | CWA | 280 | 2.50/1.50/1.25/1.10/0.65 |
| | 400 W | M59 | 120/208/240/277/480 | M400ML5AC4M555K | CWA | 458 | 4.00/2.30/2.00/1.70/1.00 |
| | 1000 W | M47 | 120/208/240/277/480 | M1000ML5AC5M555K | CWA | 1060 | 8.80/5.20/4.40/3.90/2.30 |
| Pulse Start Metal Halide | 250 W | M153 | 120/208/240/277/480 | P250ML5AC4L555K | CWA | 233 | 2.45/1.42/1.22/1.05/0.62 |
| | 320 W | M154 | 120/208/240/277/480 | P320ML5AC4L555K | CWA | 363 | 3.10/1.80/1.55/1.35/0.80 |
| | 400 W | M155 | 120/208/240/277/480 | P400ML5AC4L555K | CWA | 454 | 3.90/2.25/1.90/1.65/0.95 |
| | 750 W | M149 | 120/208/240/277/480 | P750ML5AC5M555K | CWA | 820 | 6.95/4.00/3.50/3.00/1.75 |



Multi-5 Uni-Pak is the only HID replacement kit that offers these great benefits:

1. Gives you five taps in one: 120, 208, 240, 277 and 480 volt.
2. Packages the right ballast and lamp to ensure system compatibility — all in an easy-to-carry box.
3. Prewired capacitor (plus ignitor if needed) saves installation time and reduces wiring errors.
4. Color-coded leads to reduce the risk of incorrect wiring.
5. Simple installation instruction and troubleshooting tips included.

| Order Code | Part # | Lamp Wattage | Lamp Type | Input Voltage | Mounting | Lead Exit |
|---------------------------|--------------------|--------------|-----------------------|---------------|----------|-----------|
| Micro Series | | | | | | |
| 188514 | M2012CK-7EUN | 20 | M/C156 | 120 | No Feet | Side |
| 188882 | M2012CK-7EUN-F | 20 | M/C156 | 120 | Feet | Side |
| 188883 | M2012CK-7EUN-J | 20 | M/C156 | 120 | Studs | Top |
| 188635 | M3912CK-7EUN | 39 | M/C130 | 120 | No Feet | Side |
| 188776 | M3912CK-7EUN-F | 39 | M/C130 | 120 | Feet | Side |
| 188756 | M3912CK-7EUN-J | 39 | M/C130 | 120 | Studs | Top |
| 188777 | MTm3912CK-7EUN-F | 39Tm | M/C179 | 120 | Feet | Side |
| Mini-Slim Series | | | | | | |
| 188246 | M3912CK-6EUN-F | 39 | M/C130 | 120 | Feet | Side |
| 188164 | M7012CK-6EUN-F | 70 | M/C98, M/C139, M/C143 | 120 | Feet | Side |
| Mini-Square Series | | | | | | |
| 188901 | M2012-27CK-6EU-F | 20 | M/C156 | 120-277 | Feet | Side |
| 1889031 | M2012/27CK-6EUJT3 | 20 | M/C156 | 120/277 | Studs | Top |
| 188895 | M3912-27CK-6EU-F | 39 | M/C130 | 120-277 | Feet | Side |
| 188293 | M3912CK-6EU-F | 39 | M/C130 | 120 | Feet | Side |
| 188939 | M7012-27CK-6EU-F | 70 | M/C98, M/C139, M/C143 | 120-277 | Feet | Side |
| 188940 | M7012-27CK-6EUJ | 70 | M/C98, M/C139, M/C143 | 120-277 | Studs | Top |
| Standard Series | | | | | | |
| 188611 ₁ | M2012/27CK-5EUJT3 | 20 | M/C156 | 120/277 | Studs | Top |
| 188156 | M3912-27CK-5EU | 39 | M/C130 | 120-277 | No Feet | Side |
| 188157 | M3912-27CK-5EU-F | 39 | M/C130 | 120-277 | Feet | Side |
| 188301 | M3912-27CK-5EUJ | 39 | M/C130 | 120-277 | Studs | Top |
| 188629 ₁ | M3912/27CK-5EUJT3 | 39 | M/C130 | 120/277 | Studs | Top |
| 188630 ₂ | M3912/27CK-5EUJA3 | 39 | M/C130 | 120/277 | Studs | Top |
| 188612 | M5012-27CK-5EU-F | 50 | M148 or M110 | 120-277 | Feet | Side |
| 188613 ₁ | M5012/27CK-5EUJT3 | 50 | M148 or M110 | 120/277 | Studs | Top |
| 188165 | M7012-27CK-5EU | 70 | M/C98, M/C139, M/C143 | 120-277 | No Feet | Side |
| 188166 | M7012-27CK-5EU-F | 70 | M/C98, M/C139, M/C143 | 120-277 | Feet | Side |
| 188167 | M7012-27CK-5EUJ | 70 | M/C98, M/C139, M/C143 | 120-277 | Studs | Top |
| 188631 ₁ | M7012/27CK-5EUJT3 | 70 | M/C98, M/C139, M/C143 | 120/277 | Studs | Top |
| 188632 ₂ | M7012/27CK-5EUJA3 | 70 | M/C98, M/C139, M/C143 | 120/277 | Studs | Top |
| 188633 ₁ | M10012/27CK-5EUJT3 | 100 | M/C90, M/C140, C191 | 120/277 | Studs | Top |
| 188168 | M10012-27CK-5EU | 100 | M/C90, M/C140, C191 | 120-277 | No Feet | Side |
| 188169 | M10012-27CK-5EU-F | 100 | M/C90, M/C140, C191 | 120-277 | Feet | Side |
| 188302 | M10012-27CK-5EUJ | 100 | M/C90, M/C140, C191 | 120-277 | Studs | Top |
| 188634 ₂ | M10012/27CK-5EUJA3 | 100 | M/C90, M/C140, C191 | 120/277 | Studs | Top |
| 188638.05 ₃ | M15012-27CK-5EU-F | 150 | M/C102 and M/C142 | 120-277 | Feet | Side |
| 188639.05 ₃ | M15012-27CK-5EUJ | 150 | M/C102 and M/C142 | 120-277 | Studs | Top |
| 188989.05 _{1,3} | M15012-27CK-5EUJT3 | 150 | M/C102 and M/C142 | 120-277 | Studs | Top |

Footnotes:

- 1 - "JT3" models have 120V power source for operating the heater on self-heating thermal protectors allowing dual-rated input voltage fixtures.
- 2 - "JA3" models have same 120V power source as JT3 models, but also have an integrated auxiliary light control which drives a quartz restrike back-up lamp.
- 3 - Exceeds EISA 2007 requirements with 90% efficiency.



- Optimum Lamp Performance
- Rugged, compact and lightweight design
- Enhanced color and CRI uniformity
- Reduced lamp dropouts caused by voltage dips
- Quiet Operation

ELECTRONIC SIGN

| No. of Lamps | Total Lamp Footage (T12HO & T8HO Style Lamps) | | Catalog Nbr |
|--------------|---|---------|-------------|
| | Minimum | Maximum | |
| 1 - 2 | 2' | 16' | ESB216-12 |
| 1 - 4 | 4' | 32' | ESB432-14 |
| 4 - 6 | 8' | 48' | ESB848-46 |
| 1 - 4 | 10' | 40' | ESB1040-14 |

LED CONSTANT VOLTAGE DRIVERS & CHAINS

| Driver P/N | Voltage | Max Power (W) | Current (mA) | Input Voltage | Control/Notes |
|-------------|---------|---------------|--------------|---------------|---------------------|
| L12V20UNVJL | 12 | 20 | 1.7 | 120-277 | Fixed Output |
| L12V60UNVA | 12 | 60 | 5 | 120-277 | Fixed Output |
| L12V60UNVQ | 12 | 60 | 5 | 120-277 | Fixed Output / IP67 |
| L24V100UNVA | 24 | 96 | 4 | 120-277 | Fixed Output |
| L24V100UNVQ | 24 | 96 | 4 | 120-277 | Fixed Output / IP67 |

| Chain P/N | Color | Color Temp | Input Voltage | Lumens/Foot |
|-----------|-------|------------|---------------|-------------|
| LSA-25VWH | White | 6500K | 12V | 100 |
| LSA-25VWV | White | 3500K | 12V | 95 |



- Universal's constant voltage drivers are ideal for your general lighting and sign illumination applications.
- Universal's LED chains are ideal for sign illumination and accent lighting applications.

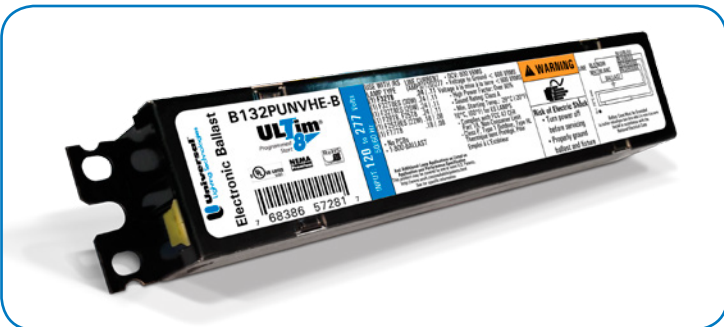


| | LAMP TYPE | QTY | Analog Dimming | Light Level Switching | DALI Digital Dimming Ballasts | Analog Dimming w/ Parallel Lamp | Light Level Switching w/ Parallel Lamp | |
|-----------|------------|----------------------------|------------------------------|---|-------------------------------------|--|--|---|
| T8 | F17T8 | 1 | B132PUNVSV3-A | B232PUS50-A | B132PUNVDV3-A | B232PUSV3PLA (120-277V) | B232PUS50PLHA (120-277V) | |
| | | 2 | B232PUNVSV3-A | | B232PUNVDV3-A | | | |
| | F25T8 | 1 | B132PUNVSV3-A | B232PUS50-A | B132PUNVDV3-A | | | |
| | | 2 | B232PUNVSV3-A | | B232PUNVDV3-A | | | |
| | F32T8 | 1 | B132PUNVSV3-A | B232PUS50-A B232SR120S30 B232SR277S30 | B132PUNVDV3-A | | B232P3SV3PLA (347V) | B232P3S50PLHA B232PUS50PLA (120-277V) B232P3S50PLA (347V) |
| | | 2 | B232PUNVSV3-A | | B232PUNVDV3-A | | | |
| 3 | | B332SR120V5 B332SR277V5 | B332SR120S30 B332SR277S30 | | | | | |
| 4 | | B432SR277V5 | | | | | | |
| T5 & T5HO | F14T5 | 1 | B114PUNVSV3-D | B214PU115S50A | B114PUNVDV3-D | B228PUSV3PLA (120-277V) B228P3SV3PLA (347V) | B232PUS50PLA (120-277V) | |
| | | 2 | B214PUNVSV3-D | B228PU95S50D & B214PU115S50A | B214PUNVDV3-D | | | |
| | F21T5 | 1 | B128PUNVSV3-D | B214PU115S50A | B128PUNVDV3-D | | | |
| | | 2 | B228PUNVSV3-D | B228PU95S50D & B228PU115S50D | B228PUNVDV3-D | | | |
| | F28T5 | 1 | B128PUNVSV3-D | B214PU115S50A | B128PUNVDV3-D | | | |
| | | 2 | B228PUNVSV3-D | B228PU95S50D & B228PU115S50D | B228PUNVDV3-D | | | |
| | F35T5 | 1 | B135PUNVSV3-D | | B135PUNVDV3-D | | | |
| | | 2 | | B228PU115S50D | | | | |
| | F54T5HO | 1 | | | B254PUDV3PLD B254P3DV3PLD (347V) | | B254PUSV3PLD | |
| | | 2 | | | | | | |
| CFL | CFQ/TR13W | 1 | C213UNVSV3ME | | C226UNVDV3ME | | | |
| | | 2 | C213UNVSV3ME | | C226UNVDV3ME | | | |
| | CFQ/TR18W | 1 | C218UNVSV3ME | | C226UNVDV3ME | | | |
| | | 2 | C218UNVSV3ME | | C226UNVDV3ME | | | |
| | CFQ/TR26W | 1 | C226UNVSV3ME | | C226UNVDV3ME | | | |
| | | 2 | C226UNVSV3ME | | C226UNVDV3ME | | | |
| | CFR32W | 1 | C226UNVSV3ME | | C226UNVDV3ME | | | |
| | | 2 | | | C232PUNVDV3 | | | |
| | CFM42W | 1 | C226UNVSV3ME | | C226UNVDV3ME | | | |
| | | 2 | | | C242PUNVDV3 | | | |
| T5 | FT40W/2G11 | 1 | | | C140PUNVDV3 | | | |
| | | 2 | | | C240PUNVDV3 | | | |
| | FT55W/2G11 | 1 | | | B254PUDV3PLD B254P3DV3PLD (347V) | | | |
| | | 2 | | | | | | |

- SuperDim Analog dimming ballasts operate with numerous industry standard compatible 0 to 10-volt controls. Most SuperDim ballasts feature universal input voltage and a dimming range down to 1% for T5 lamps and 3%.
- BallastAR light level switching ballasts operate with standard wall switches or relays to provide switching between 100% and 50% light levels or 100%/ 60%/ 30% light levels while keeping all lamps operating for full fixture illumination.
- DALI-Pro digital dimming ballasts are designed for use with industry standard DALI controls.
- VariPro ballasts combine fast starting and parallel lamp operation on a 0-10V Analog dimming ballast platform. Universal voltage (120-277V) and 347V models are available.
- LevelPro step-dimming ballasts provide fast starting & parallel lamp operation. Several models are available, providing various choices for input voltage and ballast factor, and all support a large selection of lamp applications.

- For more information on all of the dimming ballasts and controls, visit www.unvlt.com

- For warranty information visit www.unvlt.com/support



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