RXT Series
LED Transformers
SV - Single-Voltage
MV - Multi-Voltage
HV - High Voltage
M Series Stainless Steel and Aluminum
WT - Weatherproof
Direct Burial
Plug-in / Hardwire

12v POWER SUPPLIES AND ACCESSORIES

12v POWER SUPPLIES AND ACCESSORIES
WHY USE M SERIES KITS?
1. Modular design enables fast and easy field upgrades. Add or remove any control device in minutes. No down time!
2. Transformer never leaves job site, makes repair work hassle-free. No return of unit to factory.
3. Add additional power modules for increased capacities. More lighting for new applications.
4. Less inventory required. Stock 1 or 2 main units and kits for upgrading.
5. Saves you time and money. Keeps you and your customers happy!

MLT/MAL

-SS/Alum.

CATALOG #
MLT/MAL-312-900
MLT/MAL-412-1200

MLT-412-1200-2DT-RPC

18 gauge #4 brushed stainless steel enclosure and latchable hinged door.

(-D) Full phase dimmer - 12.5v - 0.0v (Not shown)
See factory installed options, page 3

Super Terminal Lug system wiring advantages:
• Fewer tools required
• No need for spade connectors
• Simply place stripped wire in barrel and screw down

-(-R) 24v VAC or 12v VAC relay access to connect irrigation controller (Optional)

MLT-412-1200-2DT-RPC

80 Amp. extra heavy duty terminal lug. 1-4 cable sets can be placed in each terminal.

8 cooling louvers for maximum heat dissipation

(-DT) Digital timer Easy to program (Optional)

Photocell Quick Connect

On/Off switch

CATALOG #
MST/MAS-12-200
MST/MAS-12-300
MST/MAS-2-12-200
MST/MAS-2-12-300
MST/MAS-2-12-600

MLT/MAL-312-900
MLT/MAL-412-1200
M SERIES

• Easy replacement of timer or control device.
• Manual operation.

MST/MLT, MAS/MAL OPTIONS

FACTORY INSTALLED (Add following suffix to catalog number).

1. Timer-Ready* (-TR)
   Timer-ready receptacle for use with plug-in timer. Simply plug-in timer for use.
2. X10 Module** – Remote control ready using plug-in module and hand held remote.
4. Photocell (-PC) attached.* Left or right side of transformer. Specify at time of order. (Right side standard).
5. Remote Photocell (-RPC).* Left or right side of transformer. Specify at time of order. (Right side standard).
6. Full phase/range factory installed dimmer (-D).* (Reduces output by 1v)
7. 12v & 2.4v VAC Relay for use w/ irrigation controller (-R).
   Must have an empty station available
8. Multi-voltage output (-MV), 12.5v, 13.5v and 14.5v taps (120v only). Optional Multi-voltage input (-MVI):
   220, 240v 50 Hz or 277v 60 Hz.; 300 VA only. 12.5v output only (not shown)
9. Digital Timer (-DT) LCD Display with battery backup.
10. Astro Timer (-AT) Astronomical Timing Device For Automatic Sunrise & Sunset Activation Based on latitude/longitude coordinates

*Timer-ready transformers have these options available.
**Plug-in Timer and X10 Module not supplied through FOCUS Industries. Consult factory for suppliers.

MST/MLT, MAS/MAL

SPECIFICATIONS

• Heavy-duty 18 gauge brushed stainless steel NEMA 3R enclosure with hinged locking door (Lifetime warranty) MST, MLT.
• Heavy-duty aluminum enclosure 18 gauge for MAS, MAL.
• Black powder polyester coat finish standard for outer enclosure MAS, MAL.
• Rain tight enclosure, above grade (Nema 3R Type).
• Long life, high temperature (130°C) 266°F Class ‘B’ rated Transformers.
• Isolation/insulation type. No contact between 120v and 12v windings. Copper shield.
• 1500v Isolation between all windings and ground.
• 11 gauge cold rolled steel ‘L’ brackets for stable mounting.
• M19 electrical grade steel for superior electrical and magnetic properties.
• Strip copper secondary windings for lower temperature rise.
• Single phase, open core and coil.
• EL laminated windings (Linear output) vacuumed impregnated with black slate flour. Filled varnish for superior heat dissipation and noise reduction.
• 120v primary, 12.5v secondary 50/60 hertz/cycle standard.
• 6 ft. (18/3) SJT-WA weatherproof grounded powercord (120v).
• On/off control via rocker switch.
• Extra heavy-duty (75A) terminal lug easily handles extra cable sets.
• Resettable magnetic circuit breaker for overload and short circuit protection.
• UL 1838 and 1598 Listed. The Standard for Low Voltage Landscape Lighting Systems.
• All units are supplied with knock-outs for easy upgrading or adding of accessories.
• MAS/MST Series combo knockouts for 12v cable conduit feed available in 2x 1/2” or 3/4”, 1x 1” & 1x 2”
• MAL/MLT Series combo knockouts for 12v cable conduit feed available in 4x 1/2” or 3/4”, 2x 1” & 2x 2”
• Flip bottom. M Series has easy access wiring and large knockouts.
• Super Terminal lug system wiring advantages: Less tools required, no need for spade connector, simply place stripped wire in barrel and screw down.

POWDER COAT FINISH OPTIONS*

Stucco (-STU)
Weathered Iron (-WIR)
Camel (-CAM)
Chrome Powder (-CPR)
Hunter Texture (-HTX)
Weathered Brown (-WBR)
Black Texture (-BRT)
White (-WTX)
Bronze Textured (-BRT)
Rust (-RST)
Antique Verde (-ATV)
Rubbed Verde (-RBV)

*Excludes RXT Series
When ordering field installed kits, you must specify for use with MST/MAS or MLT/MAL

**FIELD INSTALLED KITS**

1. Mechanical Timer Kit (-T KIT)
2. Digital Timer Kit (-DT KIT)
3. Photocell Kit (-PC KIT)
4. Remote Photocell Kit (-RPC KIT)
5. Full Phase Dimmer Kit (-D KIT)
6. 12v / 24v VAC Relay Kits (-R KIT)

MAS/MAL features an aluminum enclosure
MST/MLT features a stainless steel enclosure

Note: All kits shown below are plug and go. Each supplied with instructions and all hardware to make the upgrade. Plug 1/4” quick connector to the designated terminal and you’re ready to enjoy your new or existing landscape lighting system.

**MOUNTING LOCATIONS**

Determined by the source of 110v/120v power. Typical mounting locations are closet, garage, car port, attic, basement, utility shed, pool enclosure or house exterior. When used outdoors, you must plug grounded power cord into a ground fault circuit interrupter (GFCI) supplied with weatherproof cover to prevent possible electric shock and/or short circuit as per the National Electric Code (NEC).

**MOUNTING INSTRUCTIONS**

Mount all M Series weatherproof transformers within 2 ft. of a standard electrical 110v/120v receptacle using the hardware provided (mounting plate and screws) and 1 ft. above ground or grade if installing outdoors. Strip and place voltage direct burial cable in properly designated terminal lug sections and tighten securely. For Lug System simply place stripped wire in barrier and screw down. Plug grounded power cord into a recommended Ground Fault Circuit Interrupter (GFCI) covered with a weatherproof junction box to prevent possible electric shock and/or short circuit as per the National Electric Code (NEC). Provide a water drip loop for the power cable to prevent water flow directly into the receptacle. SEE ILLUSTRATIONS.

**WARRANTIES FOR M SERIES**

Limited Lifetime Warranty on stainless steel enclosures. 5 year warranty on aluminum MAS/MAL Transformer Series.
3 year warranty on electrical components. 1 year warranty on Mechanical (-T), Digital (-DT) & Astro (-AT) Time Clocks.
No warranty on plug-in timers or other parts not supplied by FOCUS Industries.
**WT Series - Weatherproof LED Series Transformers**

**SPECIFICATIONS WT**
- Heavy duty extruded aluminum enclosure (.125) 6063-T6 with locking slide cover.
- Powder coated with black gloss polyester finish (optional finishes available).
- Rain tight enclosure, above grade (Nema 3R).
- Long life, high temperature (130°C) rated transformers.
- Isolation/insulation type. No contact between 120v and 12v windings.
- Single phase, open core and coil.
- 120v primary, 12.5v secondary 50/60 hertz/cycle.
- 6 ft. (18/3) SJT-WA weatherproof grounded power cord with flat angle plug (120v).
- Magnetic resettable circuit breakers.
- On/Off control via rocker switch.
- Extra-heavy-duty (75A) terminal block easily handles extra cable sets.
- UL 1838 and 1598 listed. The standard for Low Voltage Landscape Lighting Systems.
- LED power Indicators

**WARRANTY** 5 year warranty on enclosure. 3 year warranty on mechanical / electrical components. 1 year warranty on Mechanical (-T), Digital (-DT) & Astro (-AT) Time Clocks. No warranty on plug-in timers or other parts not supplied by FOCUS Industries.

**WT-12-300-DT-RPC**
- Key slotted top plate for easy mounting and alignment
- 6063-T6 aluminum extruded housing for maximum heat sink (.125) corrosion resistance
- Digital time clock (-DT), LCD Display, Easy to program (Optional)
- 2 LED indicators for 120v power on & 12v power to terminal
- Remote Photocell (-RPC) with 15’ plug cord and mounting hub (expandable to 50’). Dusk-to-dawn automatic control. (Optional)
- Lockable slide cover plate with installation and operational guide.
- Polyester (black gloss) powder coat finish. Optional finishes available. See page 3
- Resettable magnetic circuit breaker for overload & short circuit protection.
- 6’ SJT-WA grounded Flat power cord 18/3 (120v)
- GREAT FEATURE: Supplied with mounting plate and hardware for easy installation (key slotted back)
- Anti-Noise & Vibration Pads

**WT-212-600**

**CATALOG #**

<table>
<thead>
<tr>
<th>1 CIRCUIT</th>
<th>2 CIRCUIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>WT-12-60/-MV</td>
<td>WT-212-200</td>
</tr>
<tr>
<td>WT-12-100</td>
<td>WT-212-300</td>
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<tr>
<td>WT-12-200</td>
<td>WT-212-600</td>
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<tr>
<td>WT-12-300</td>
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</tr>
<tr>
<td>3 CIRCUIT</td>
<td>4 CIRCUIT</td>
</tr>
<tr>
<td>WT-312-900</td>
<td>WT-412-1200</td>
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<tr>
<td>(3 x 300w)</td>
<td>(4 x 300w)</td>
</tr>
</tbody>
</table>
• Easy replacement of timer or control device.
• Manual operation.

WT OPTIONS
FACTORY INSTALLED (Add following suffix to catalog number)
1. Timer-Ready* (-TR)
   Timer-worthy receptacle for use with plug-in timer. Simply plug-in timer for use
2. X10 Module** – Remote control ready using plug-in module and hand held remote.
4. Photocell (-PC) attached.*
5. Remote Photocell (15’ cord) (-RPC)**
6. Full phase/range factory installed dimmer (-D) (Reduces output by 1v)
7. 12v & 24v VAC Relay for use w/ irrigation controller (-R). Must have an empty station available
8. Multi-voltage output (-MV). 12.5v, 13.5v and 14.5v taps (120v only). Optional Multi-voltage input (-MVI): 220,240v 50 Hz or 277v 60 Hz., 300 VA only. 12.5v output only (not shown)
9. Accessory knockout plate for 12v cable conduit feed (FA-101). 1/2” knockouts supplied with all Timer (-T) and (-TR) units.
10. Digital Timer (-DT) LCD Display with battery backup.
11. Astro Timer (-AT) Astronomical Timing Device For Automatic Sunrise And Sunset Activation Based on latitude/longitude coordinates

*Timer-worthy transformers have these options available.
**Photocell field kit available (RP-CK-IT, PC-KI-T)
**Intermatic Timer and X10 Module not supplied through FOCUS Industries. Consult factory for suppliers.

For -TR models add 4.00” to transformer height
For -MV models add an additional 3.00” to transformer height

MOUNTING LOCATIONS
Determined by the source of the 110v /120v power. Typical mounting locations are closet, garage, carport, attic, basement, utility shed, pool enclosure or house exterior. When used outdoors, you must plug grounded power cord to a Ground Fault Circuit Interrupter (GFCI) supplied with a weatherproof cover to prevent possible electric shock and/or short circuit as per the National Electric Code (NEC).

MOUNTING INSTRUCTIONS
Mount all WT-Series weatherproof transformers within 2 ft. of a standard electrical 110v/120v receptacle, using the hardware provided (mounting plate and screws) and 1ft. above ground or grade if installing outdoors. Attach and crimp flange spade connectors (supplied) to the ends of the low voltage direct burial cable, place in properly designated terminal block sections and tighten securely. Plug grounded power cord into a recommended ground fault circuit interrupter (GFCI) supplied with a weatherproof cover to prevent possible electric shock and/or short circuit as per The National Electric Code (NEC). Provide a water drip loop for the power cable to prevent water flow directly into the receptacle. SEE ILLUSTRATIONS ABOVE.
DB OPTIONS
FACTORY INSTALLED (Add following prefix to catalog number)
1. Photocell (-PC) attached.
2. 12v / 24v VAC Relay Control (-R).
3. Multi-Voltage output (-MV): 12.5v, 13.5v and 14.5v taps. Available 60w, 120w, 180w, 300w, 600w, 900w, 1200w
4. Top Mount Fixture (for 1-3 fixtures) or photocell. Specify at time of order.
5. For 220v, 240v or 277v add (-220v) (-240v) or (-277v) to catalog number. (12.5v output only)

SPECIFICATIONS
- Bronze high temperature fiberglass reinforced composite box and cover (heavy duty).
- Nema 12: below grade enclosure for direct burial applications.
- 2 ft 12/2 cable lead wire for low voltage connections (1 per circuit and voltage tap).
- Magnetic circuit breaker protection of all models.
- 1/2” NPS mounting hubs on cover. Must specify which hole(s) to tap at time of order, if needed.
- 120v primary, 12.5v secondary, 50/60 hz/cycle standard.

SAFETY FEATURES
- Long life, high temperature (130° C) transformers.
- Isolation/insulation type, no contact between 120v and 12v windings.
- Single phase, open core and coil.
- Completely potted for longer life, more efficiency and reduced noise.
- Must be installed by a licensed electrical contractor per local codes.

M = MAGNETIC
E = ELECTRONIC (not for LED)
**DIRECT BURIAL TRANSFORMER OPTIONS**

**ADD** -MV 12.5v / 13.5v / 14.5v Multi Voltage output on any single circuit transformer (60/300w)

**ADD** -MV1 (1) 12.5v / 13.5v / 14.5v Multi Voltage output on 2, 3 or 4 circuit transformer (300/600/900,1200w)

**ADD** -MV2 (2) 12.5v / 13.5v / 14.5v Multi Voltage outputs on 2, 3 or 4 circuit transformer (600/900/1200w)

**ADD** -MV3 (3) 12.5v / 13.5v / 14.5v Multi Voltage outputs on 3 or 4 circuit transformer (900/1200w)

**ADD** -MV4 (4) 12.5v / 13.5v / 14.5v Multi Voltage outputs on 4 circuit transformer (1200w)

**ADD** -PC Photocell mounted on top

**ADD** -RPC Remote photocell with 15’ cord

**ADD** -R 24v VAC Relay control. (For use with existing irrigation controllers)

Must have an empty station available

**ADD** -220V 220v Input / 12.5v output in 300w increments (no multi voltage)

**ADD** -240V 240v Input / 12.5v output in 300w increments (no multi voltage)

**ADD** -277V 277v Input / 12.5v output in 300w increments (no multi voltage)

**DB LED DRIVER SPECIFICATIONS:**

- **HW-12-6350120LED:** Led Driver 120v input 6w output 350mA
- **HW-12-6350240LED:** Led Driver 240v input 6w output 350mA
- **HW-12-6350277LED:** Led Driver 277v input 6w output 350mA
- **HW-12-8700LED:** Led Driver 120v input 8w output 750mA
- **HW-12-20700277LED:** Led Driver 277v input 6w output 700mA
- **HW-12-20MVLED:** Led Driver 90-277v input 20w output 0-1.6A

**Driver must be within 20’ of fixture**

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**INSTALLATION INSTRUCTIONS**

Direct burial transformers must be accessible for servicing. Install at highest grade to allow water to run off; usually 1/2” to 1 1/2” higher than grade. Earth/turf best used with 2 x 4s or concrete border to separate grass from DB enclosure to insure proper drainage and prevent lawn equipment from damaging the unit. The preferred drainage material is pea gravel or sand. Do NOT allow water to gather near unit.

Do not install in low grade areas. You can mount unit in a valve box, however there must be plenty of room for servicing the unit. All connections and fittings must be liquid tight.

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**CATALOG NO.**
**DESCRIPTION**
**CIRCUITS**

| DB-12-25M | 25w Magnetic Transformer | 1 |
| DB-12-75E | 75w Electronic Transformer | 1 |
| DB-12-150E | 150w Electronic Transformer | 1 |
| DB-12-LED8 | 8w LED Driver | 1 |
| DBS-12-60M | 60w Magnetic Transformer | 1 |
| DBS-12-100M | 100w Magnetic Transformer | 1 |
| DBS-12-75E | 75w Electronic Transformer | 1 |
| DBS-12-150E | 150w Electronic Transformer | 1 |
| DBS-12-LED8 | 8w LED Driver | 1 |

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**DB LED DRIVER SPECIFICATIONS:**

- **HW-12-6350120LED:** Led Driver 120v input 6w output 350mA
- **HW-12-6350240LED:** Led Driver 240v input 6w output 350mA
- **HW-12-6350277LED:** Led Driver 277v input 6w output 350mA
- **HW-12-8700LED:** Led Driver 120v input 8w output 750mA
- **HW-12-20700277LED:** Led Driver 277v input 6w output 700mA
- **HW-12-20MVLED:** Led Driver 90-277v input 20w output 0-1.6A

**Driver must be within 20’ of fixture**
RAT • Remote Astro Timer

SPECIFICATIONS
• Control 1 or 2 transformers from this easy to use Plug and Play Astro Timer Control Device
• 1800w (15a) @ 120v compatible with all types of lighting transformers
• Plug and Play – no wiring required
• Includes 2 grounded receptacles

FEATURES:
• Astro Timing for automatic sunset/sunrise activation
• Setting based on latitude and longitude coordinates
• 2 program modes for night settings and pre-dawn settings
• Automatically adjusts for Daylight Savings time
• Never needs reprogramming
• Built in memory protects against power failure for up to 4 hrs (no battery required)
• Manual override for standard on/off switch operation

CATALOG NO. DESCRIPTION
RAT-01-BLT Remote Astro Timer, Black
**ELECTRICAL**

- Long life, high efficiency 266°F (130°C) class ‘B’ rated transformer core
- Copper shielded isolation/insulation;
  No contact between 120v and 12v windings
- 1500v Isolation between all windings and ground

**SPECIFICATIONS**

- 60, 120, 180, 300 and 600 watt output models available
- UL 1838 listed, the “standard” for low voltage landscape lighting systems
- Multi Voltage output standard (12.5, 13.5 & 14.5 volts)
- Super Terminal Lugs with capacity of 3 x #8, 5 x #10 7 x #12 or 9 x #14 gauge wire
- 304 Stainless Steel enclosure with #4 brushed finish
- Removable Stainless Steel hinged door is lockable and weather sealed
- Above grade, NEMA 3R rated, rain tight enclosure
- LED indicators for instant recognition of 120v and 12v power
- Timer Ready standard (for plug-in timers supplied by others)
- Optional Mechanical Timer (-T), Digital Timer (-DT) and Astro Timer (-AT) face plates can be factory or field installed
- Photocell Ready with quick connector (not -AT models)
- Supplied with two 1/2” conduit (trade size) holes & one 1-1/2” inlet with plugs
- Bottom panel plus 2 side panel 1/2” conduit (trade size) holes with plugs
- Break away bottom panel swings down for easy access wiring
- 11 gauge cold rolled steel ‘L’ brackets for stable mounting
- Mounting plate and hardware included

**NEW**

New Deeper Case Accommodates Most Popular Brands Of Digital Timers

**FOCUS RXT SERIES • THE BEST TRANSFORMERS AT THE BEST PRICE**
Interchangeable faceplates with 3 selections of timers can be installed at factory, distribution level or in the field. Simple installation with only a Phillips screwdriver - no special tools required.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>CATALOG NO.</th>
<th>DESCRIPTION</th>
<th>NUMBER OF CIRCUITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>RXT-12-60MV</td>
<td>60 watt MV stainless transformer, timer ready</td>
<td>1 circuit</td>
</tr>
<tr>
<td>RXT-12-120MV</td>
<td>120 watt MV stainless transformer, timer ready</td>
<td>1 circuit</td>
</tr>
<tr>
<td>RXT-12-180MV</td>
<td>180 watt MV stainless transformer, timer ready</td>
<td>1 circuit</td>
</tr>
<tr>
<td>RXT-12-300MV</td>
<td>300 watt MV stainless transformer, timer ready</td>
<td>1 circuit</td>
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<tr>
<td>RXT-12-600MV</td>
<td>600 watt MV stainless transformer, timer ready</td>
<td>2 circuit</td>
</tr>
<tr>
<td>RXT-12-60MVAT</td>
<td>60 watt MV stainless transformer, astro timer</td>
<td>1 circuit</td>
</tr>
<tr>
<td>RXT-12-120MVAT</td>
<td>120 watt MV stainless transformer, astro timer</td>
<td>1 circuit</td>
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<tr>
<td>RXT-12-180MVAT</td>
<td>180 watt MV stainless transformer, astro timer</td>
<td>1 circuit</td>
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<td>RXT-12-300MVAT</td>
<td>300 watt MV stainless transformer, astro timer</td>
<td>1 circuit</td>
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<tr>
<td>RXT-12-600MVAT</td>
<td>600 watt MV stainless transformer, astro timer</td>
<td>2 circuit</td>
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<tr>
<td>RXT-12-60MVDT</td>
<td>60 watt MV stainless transformer, digital timer</td>
<td>1 circuit</td>
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<td>RXT-12-120MVDT</td>
<td>120 watt MV stainless transformer, digital timer</td>
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<td>RXT-12-180MVDT</td>
<td>180 watt MV stainless transformer, digital timer</td>
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<td>RXT-12-300MVDT</td>
<td>300 watt MV stainless transformer, digital timer</td>
<td>1 circuit</td>
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<td>RXT-12-600MVDT</td>
<td>600 watt MV stainless transformer, digital timer</td>
<td>2 circuit</td>
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<tr>
<td>RXT-12-60MVT</td>
<td>60 watt MV stainless transformer, mechanical timer</td>
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<td>RXT-12-120MVT</td>
<td>120 watt MV stainless transformer, mechanical timer</td>
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<td>RXT-12-300MVT</td>
<td>300 watt MV stainless transformer, mechanical timer</td>
<td>1 circuit</td>
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<tr>
<td>RXT-12-600MVT</td>
<td>600 watt MV stainless transformer, mechanical timer</td>
<td>2 circuit</td>
</tr>
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</table>

**FACEPLATES**

<table>
<thead>
<tr>
<th>FACEPLATES</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>RXT-FP-AT60</td>
<td>RXT-12-60/-120/-180 Face Plate With Astro-Timer</td>
</tr>
<tr>
<td>RXT-FP-AT300</td>
<td>RXT-12-300 Face Plate With Astro-Timer</td>
</tr>
<tr>
<td>RXT-FP-AT600</td>
<td>RXT-12-600 Face Plate With Astro-Timer</td>
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<tr>
<td>RXT-FP-DT60</td>
<td>RXT-12-60/-120/-180 Face Plate With Digital Timer</td>
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<tr>
<td>RXT-FP-DT300</td>
<td>RXT-12-300 Face Plate With Digital Timer</td>
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<tr>
<td>RXT-FP-DT600</td>
<td>RXT-12-600 Face Plate With Digital Timer</td>
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<tr>
<td>RXT-FP-T60</td>
<td>RXT-12-60/-120/-180 Face Plate With Timer</td>
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<tr>
<td>RXT-FP-T300</td>
<td>RXT-12-300 Face Plate With Timer</td>
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<tr>
<td>RXT-FP-T600</td>
<td>RXT-12-600 Face Plate With Timer</td>
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<tr>
<td>RXT-FP-TR60</td>
<td>RXT-12-60/-120/-180 Face Plate With Timer Ready Receptacle</td>
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<tr>
<td>RXT-FP-TR300</td>
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<tr>
<td>RXT-FP-TR600</td>
<td>RXT-12-600 Face Plate With Timer Ready Receptacle</td>
</tr>
</tbody>
</table>

**CONTROL OPTIONS**

- **-T** Mechanical Timer
- **-DT** Digital Timer
- **-AT** Astro Timer
- **-PC** Photocell

**INTERCHANGEABLE FACEPLATES**

- Astro Timer Faceplate (-AT)
- Digital Timer Faceplate (-DT)
- Mechanical Timer Faceplate (T)
HV Series - Stainless Steel High Voltage Transformers

HIGH VOLTAGE STAINLESS STEEL POWER SUPPLIES. 12v - 21v Taps.

HV-1200-SS
1200w enclosure

HV-600-SS

HV-900 *

HV-1200 (2 x 600) *

**Do not run all your load through a single tap or common. / Do not load more than 25 amps or 300 watts on any single common. / For best results, keep all commons (loads/watts) balanced as close as possible.**

HV Transformers were designed to use multiple taps with multiple loads.

**Installation instructions**
- Rain-tight door gasket
- Heavy-duty 18 gauge #4 brushed stainless steel
- Liquid-tight connector
- Flip bottom panel for easy access
- 6' SJT-WA grounded flat power cord (18/3 - 120v)

**Circuit breaker and magnetic On/Off switch**

**Optional accessories**
- PC Photocell
- RPC Remote Photocell
- R Relay

**Super Terminal Lug system wiring advantages:**
- Fewer tools required
- No need for spade connectors
- Simply place stripped wire in barrel and screw down

**Combo knockouts:**
- 2 x 1/2” or 3/4”
- 1 x 1”
- 1 x 2”

**Lug Capacity**
- 7x #12 cable
- 5x #10 cable
- 3x #8 cable

**Lamp Ready (-TR)**

**Site Log**

**Quick Connector**

**Anti-Noise & Vibration Pads**

**Limited Lifetime Warranty**

**Single Tap Load Charts**

**HV-500**

<table>
<thead>
<tr>
<th>TAP</th>
<th>MAX WATTS</th>
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<tbody>
<tr>
<td>21v</td>
<td>285</td>
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<tr>
<td>18v</td>
<td>333</td>
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<tr>
<td>16v</td>
<td>375</td>
</tr>
<tr>
<td>15v</td>
<td>400</td>
</tr>
<tr>
<td>14v</td>
<td>428</td>
</tr>
<tr>
<td>13v</td>
<td>461</td>
</tr>
<tr>
<td>12v</td>
<td>500</td>
</tr>
</tbody>
</table>

**HV-600**

<table>
<thead>
<tr>
<th>TAP</th>
<th>MAX WATTS</th>
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</thead>
<tbody>
<tr>
<td>21v</td>
<td>343</td>
</tr>
<tr>
<td>18v</td>
<td>400</td>
</tr>
<tr>
<td>16v</td>
<td>450</td>
</tr>
<tr>
<td>15v</td>
<td>480</td>
</tr>
<tr>
<td>14v</td>
<td>514</td>
</tr>
<tr>
<td>13v</td>
<td>553</td>
</tr>
<tr>
<td>12v</td>
<td>600</td>
</tr>
</tbody>
</table>

**HV-900**

<table>
<thead>
<tr>
<th>TAP</th>
<th>MAX WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>21v</td>
<td>516</td>
</tr>
<tr>
<td>18v</td>
<td>600</td>
</tr>
<tr>
<td>16v</td>
<td>672</td>
</tr>
<tr>
<td>15v</td>
<td>720</td>
</tr>
<tr>
<td>14v</td>
<td>768</td>
</tr>
<tr>
<td>13v</td>
<td>878</td>
</tr>
<tr>
<td>12v</td>
<td>900</td>
</tr>
</tbody>
</table>

**HV-1200 (2 x 600)**

<table>
<thead>
<tr>
<th>TAP</th>
<th>MAX WATTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>21v</td>
<td>343</td>
</tr>
<tr>
<td>18v</td>
<td>400</td>
</tr>
<tr>
<td>16v</td>
<td>450</td>
</tr>
<tr>
<td>15v</td>
<td>480</td>
</tr>
<tr>
<td>14v</td>
<td>514</td>
</tr>
<tr>
<td>13v</td>
<td>553</td>
</tr>
<tr>
<td>12v</td>
<td>600</td>
</tr>
</tbody>
</table>
**ORDER INFORMATION**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No. of Lugs</th>
<th>Commons</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>HV-500-SS-TL</td>
<td>8</td>
<td>3</td>
<td>500w</td>
</tr>
<tr>
<td>HV-600-SS-TL</td>
<td>8</td>
<td>3</td>
<td>600w</td>
</tr>
<tr>
<td>HV-900-SS-TL</td>
<td>8</td>
<td>4</td>
<td>900w</td>
</tr>
<tr>
<td>HV-1200-SS-TL</td>
<td>16</td>
<td>6</td>
<td>1200w</td>
</tr>
</tbody>
</table>

**HV OPTIONS**

**FACTORY OR FIELD INSTALLED (Add following prefix to catalog number).**

1. Photocell (-PC) attached. Left or right side of transformer. Specify at time of order. (Right side standard).
2. Remote Photocell (-RPC) with 15’ cord. Left or right side of transformer. Specify at time of order. (Right side standard).
3. 12v/24v VAC Relay for use w/ irrigation controller (-R). Must have an empty station available.

**HV SPECIFICATIONS**

- Heavy-duty 18 gauge brushed 316 stainless steel NEMA 3R enclosure with hinged locking door (Lifetime warranty).
- Black polyester powder coat finish standard for outer enclosure.
- Rain tight enclosure, above grade (Nema 3R Type).
- Long life, high temperature (130°C) 266°F Class ‘B’ rated Transformers.
- Isolation/insulation type. No contact between 120v and 12v windings. Copper shield.
- 1500v Isolation between all windings and ground.
- 11 gauge cold rolled steel ‘L’ brackets for stable mounting.
- M19 electrical grade steel for superior electrical and magnetic properties.
- Strip copper secondary windings for lower temperature rise.
- Single phase, open core and coil.
- EL laminated windings (Linear output) vacuumed impregnated with black slate flour. Filled varnish for superior heat dissipation and noise reduction.
- 120v primary, 12.5v secondary 50/60 hertz/cycle standard.
- 6 ft. (18/3) SJT-WA weatherproof grounded powercord (120v).
- On/off control via rocker switch.
- Extra heavy-duty (80A) terminal lug easily handles extra cable sets.
- Resettable magnetic circuit breaker for overload and short circuit protection.
- UL 1838 and 1598 Listed. The Standard for Low Voltage Landscape Lighting Systems.
- All units are supplied with knock-outs for easy upgrading or adding of accessories.
- HV Series combo knockouts for 12v cable conduit feed available in 2x 1/2” and 3/4, 1x 1”, and 1x 2”.
- HV 1200 Series combo knockouts for 12v cable conduit feed available in 4x 1/2” and 3/4”, 2x 1” and 2x 2.”
- Flip bottom. HV Series has easy access wiring and large knockouts.
- Super Terminal lug system wiring advantages: Less tools required, and no need for spade connector. Simply place stripped wire in barrel and screw down.
Designed for grouping multiple fixture lead wires into one weatherproof junction box for easy access, connections, easy voltage metering, quick installation and to help distribute equal voltage to each fixture.

**Designed for these transformers:**

**MV (Multi Voltage 12.5, 13.5, 14.5v)**

**HV (High Voltage 12, 13, 14, 15, 16, 18 and 21v)**

**DB Series (Multi Voltage Only)**

**HERE’S HOW IT WORKS:**

1. Use a FOCUS MV (12.5v - 14.5v) or HV transformer (12v - 21v) output or higher.
2. Deliver from the transformer 1 to 3 12/2, 10/2 or 8/2 main cables into the CPC unit.
3. Bring each fixture lead wire (16/2) 25 feet into the CPC and connect together as shown. Do not cut or reduce the length of 16/2 fixture wire.
4. Recommended for the following layouts: 3 to 6 20w fixtures with 25F leads (16/2) or 2 to 4 35w fixtures with 25F leads (16/2).
5. The distance from the transformer to the CPC unit and fixture load will determine the tap or voltage needed at the transformer.
6. Make sure all loads (fixtures are wired/connected) to determine final voltage needed.
7. Pack connections with 3 inches of 3M die-electric sealing tape after tightening lugs (figure 1).
8. Do not exceed 200 watts per CPC connector.
9. Do not cut or shorten fixture lead wires. They must remain the same length to ensure equal voltage to each fixture.
10. All fixtures must be the same wattage, otherwise voltage will vary to each fixture.

**FEATURES:**

- Easy identification of lighting circuits.
- Can distribute up to 18 fixtures from 1 CPC enclosure using up to 3 connectors.
- Fast voltage readings.
- Easy access and installation.
When to use
TRANSFORMER MOUNTING SYSTEM:
All applications where 120v power exists away from a structure to provide a safe and economical GFIC protected circuit with weatherproof cover.

Enables 12v power source to be close in proximity to the 12v lighting fixtures reducing voltage drop and cable lengths.

FEATURES:
• Duplex receptacle with LED power indicator.
• Ground Fault Interrupted Circuit (GFIC) protection.
• For use with 1 (-TMS1) or 2 (-TMS2) transformers (specify).
• Put power where you need it.
• Reduces expensive cable runs.
• Reduces voltage drop to fixtures.
• Non-corrosive ABS mounting pedestal supplies years of trouble-free operation.
• Available in Black (-BLT)(Standard) or Bronze (-BRT)
• Quick installation.
• Photocell option available add (-PC) to catalog number

CATALOG #
FA-26-TMS1 (single)
FA-26-TMS2 (double)
# Hardwire Transformers

**CATALOG # HW-12-75W**  
**Hardwire Transformer**

## SPECIFICATIONS
- 120v VAC input/11.5v output - 75w - Electronic
- Flame retardant, high temperature housing
- No audible noise
- Lightweight, compact design
- Electronic short circuit and overload protection
- Moisture and shock resistant
- 25 kHz operating frequency, 95% efficiency
- 10w minimum load required
- Minus 25°C starting capability

## APPLICATIONS
- Retrofit existing 120v junction boxes to 12v
- Converting to 12 volt allows fixtures to mount to top of J-box or cable distribution on the back or bottom of J-box for additional fixtures.

**NOTE:** 1 HW unit per single gang weatherproof J-box. For a 2 gang J-Box, 2 units or 150w can be used.

*Do not exceed 10 ft from transformer. There is 1v drop for each 10 feet from unit.*

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# Plug-in Transformers

**CATALOG # PI-12-75**

## SPECIFICATIONS
- 120v input, 11.5v output, 75w - Electronic
- Black, flame retardant, high temperature housing
- No audible noise
- Lightweight, compact design
- Electronic short circuit and overload protection
- Moisture and shock resistant
- 25 kHz operating frequency, 95% efficiency
- 10w minimum load required
- Minus 25°C starting capability
- Nickel plated hospital grade 120v grounded plug.
- 10 ft. 18/2 lead wire supplied

## APPLICATIONS
- Instant conversion of 120v receptacle to 12v
- Single or multiple fixtures can be used (not to exceed 75w).
- Suggested for hotel lobbies, atriums, gazebos. Wherever there is a receptacle.
- For highlighting single or multiple objects from a concealed power supply.
- For interior or exterior uses. If used outdoors, must be enclosed in a weatherproof receptacle cover.

*Do not exceed 10 ft from transformer. There is 1v drop for each 10 feet from unit.*