



Sunlight Supply, Inc.

National Garden Wholesale.» www.sunlightsupply.com • www.nationalgardenwholesale.com

## IMPORTANT PRODUCT INFORMATION READ IMMEDIATELY

#### KEEP ORIGINAL PACKAGING – ALL RETURNS NEED TO BE IN THE ORIGINAL PACKAGING IN ORDER TO AVOID PRODUCT DAMAGE DURING SHIPPING. ANY DAMAGE TO PRODUCTS NOT IN THEIR ORIGINAL PACKAGING WILL NOT BE COVERED UNDER WAR-RANTY.

## **SAFETY FIRST!**

FAILURE TO OBSERVE THE FOLLOWING SAFETY WARNINGS MAY RESULT IN SERIOUS INJURY. IN ADDITION, FAILURE TO OBSERVE THESE SAFETY WARNINGS WILL RESULT IN A WAIVER OF ALL LIABILITIES ON SUNLIGHT SUPPLY®, INC. AND WILL VOID ALL WARRANTIES.

## WARNING:

- If the exterior of the lamp is damaged, replace lamp immediately.
- Disconnect power before re-lamping.
- When re-lamping, make sure lamp has time to cool before touching.
- Make sure power cord and lamp cord are connected properly.
- Do NOT hang by power cord or lamp cord.
- Do NOT make contact with the interior of the socket while the power is on.
- Do NOT operate the light systems in wet locations.
- Do NOT plug this system into a supply voltage other than what is instructed on the ballast.
- Do NOT attempt to open, rewire or reconfigure any components of the light system. It will void the warranty and could cause serious injury or death.
- These products operate at very high temperatures. Keep away from children.
- Do not plug or unplug a lamp cord while the ballast is turned on.
- Glass required in reflectors when using metal halide (MH) lamps for ETL listing to apply. Not required with high pressure sodium (HPS) lamps.

## **REMOTE BALLAST SETUP:**

#### (SUN SYSTEM<sup>®</sup> 1, 6, 10, BUDGET GRO<sup>™</sup>, HARVEST PRO<sup>™</sup> & HARVEST PRO<sup>™</sup> ELITE)

- 1. Remove the system from the box along with all additional parts.
- 2. The Smart Volt<sup>™</sup> systems come standard with the 120 volt Smart Volt<sup>™</sup> power cord. The Sun System<sup>®</sup> 1 and 6, Harvest Pro<sup>™</sup> and Harvest Pro<sup>™</sup> Elite have the Power Pointer<sup>™</sup> voltage selector. The Sun System<sup>®</sup> 10 and Budget Gro<sup>™</sup> have the Power Slider<sup>™</sup> voltage selector. Make sure it is on the 120 volt option to plug in the provided cord. To change the voltage on the Sun System<sup>®</sup> 1 and 6, Harvest Pro<sup>™</sup> & Harvest Pro<sup>™</sup> Elite, simply pull out and twist 180° (Fig. 4a). For the Sun System<sup>®</sup> 10 & Budget Gro<sup>™</sup>, slide the door to the marked 240 volt side (Fig. 4b). To use the 240 volt you must purchase the 240 volt Smart Volt<sup>™</sup> power cord (#903082 or #903084) separately.

- 3. Switchable Units: When using a SS-6 MH/HPS (Metal Halide/High Pressure Sodium) switchable unit, switch the system to the MH side to run a Metal Halide lamp or HPS to run a High Pressure Sodium lamp. For a SS-6 1000 switchable, select the HPS option of the ballast by pushing the bottom of the switch so that the red part of the switch is visible. Press the top part of the switch for MH. A SS-6 400 switchable is marked HPS400 for the HPS side and MH400 for the MH side.
- 4. Connect the socket to the hanging reflector (see reflector setup Fig.4). If the lamp cord is included with the reflector, skip this step.
- 5. Now connect the lamp cord to the remote ballast (Fia.2). Make sure to attach the securement ears to the plua.
- 6. Carefully screw the proper lamp into the socket. Refer to lamping instructions on the ballast.
- 7. For SS-6 units make sure to select the proper setting on the ballast to match the lamp that is being used. Make sure the switch is properly set for either MH or HPS type lamp (Fig.3).
- 8. Lastly, turn the system on by plugging the power cord into the proper NEMA configured receptacle.
- 5. You should use a properly rated Smart Volt<sup>™</sup> cord (120 or 240 volt) for the power that you are using. If you energize this ballast with 240 volt power while the female end of the power cord is plugged into the 120 volt receptacle you will "fry" the ballast and void the warranty. If you want to run this ballast with 240 volt power, vou should purchase a 240 volt Smart Volt™ cord separately.

Fig. 2

## **BULB INFORMATION:**

#### **Proper Bulb Care**

Bulbs should be replaced every year to maintain maximum lumen output. If a lamp fails to operate or reach brightness, please contact your retail store.

#### **Fluorescent fixtures**

If there are bulbs that will not fire, try swapping the bulbs around for others that are working. This will help determine if the bulbs are defective.







120V



Fig. 1a

## **REFLECTOR SETUP:**

- 1. See (Fig. 5) for attaching the socket on reflectors which do not include the socket.
- 2. Some reflectors will come with a built-in socket assembly, while others you will need to purchase one separately.
- 3. If the reflector does not have a built in socket, use a socket assembly that is sold separately. Choose from Product No. 903055 or 903060.
- 4. Some reflectors include glass. For other reflectors it may be purchased separately if you choose to use it. Typically people use glass to control air movement through the reflector during air cooling. This also protects/contains the environment of your grow area. Glass is not required when using HPS lamps for the ETL listing to apply. It is required for MH lamps for this listing

to apply. The glass installation process will vary by reflector type. It is, although, a very simple process for all Sun System reflectors.

- 5. Use an eyebolt or some other means of hanging securely from the ceiling.
- 6. V-Hangers (Fig. 6) are used to hang the reflector.
- 7. SunLifts, #710125, Grow Yo-Yo, #710129 (Fig. 7) or jack chain may be used to adjust the hanging height.

## **COMPLETE SYSTEMS SETUP:**

#### (SUN SYSTEM® 2, 4 & Sun System 150)

- 1. Remove the system from the box along with all additional parts.
- 2. These systems do not require much setup. Carefully screw the proper lamp into the socket, refer to lamping instructions on ballast.
- 3. Hang the fixture using the V-hangers provided.
- 4. (On/off switch should be in the off position.) Plug the unit into the proper NEMA configured receptacle.
- 5. Turn the fixture on using the on/off switch. Some systems may not include this feature.

#### COMPACT FLUORESCENT SETUP: (SUN SYSTEM® 8 & BRIGHT WING®)

- 1. See reflector setup section for hanging instructions.
- 2. Insert the self-ballasted compact fluorescent lamp.
- 3. Do NOT screw the lamp in by holding onto the glass tubes, hold onto the plastic base to screw the lamp in.
- 4. If the unit has on/off switches make sure these are in the off position before plugging the system into the outlet.









#### T5 FLUORESCENT SETUP: (TEK-LIGHT™, NEW WAVE®, READY FIT® & SUN BLAZE®)

- 1. Remove the system from the box along with all additional parts.
- 2. Hang the unit using the eye bolts, V-hangers and jack chain provided (Optional cable hanger systems can be purchased separately).
- 3. Insert lamps (refer to label on product for correct lamp) into the system. To do this, slide both ends of the lamp into the lamp holders and rotate the lamp 90° in either direction (Fig. 8a). For the Ready Fit<sup>®</sup> T5 unscrew the water proof protective plastic cover counter clockwise. The protective cover will have to go directly on to the lamp before inserting into the lamp holder (Fig. 8b). Insert lamp and rotate 90° in either direction and slide the water proof protective cover back on and tighten.
- 4. Some New Wave<sup>®</sup> & Sun Blaze<sup>®</sup> models have the capability to be daisy chained together. Do not exceed 7.5 amps on any fixtures chained together. Do not daisy chain more fixtures together than what is specified on the fixture. Chaining more fixtures together than specified will void the warranty on all fixtures.

Fixture Type	Max # Chained
Sun Blaze® 22	13
Sun Blaze® 24	6
Sun Blaze® 28	3
Sun Blaze® 42	7
Sun Blaze® 44	3
Sun Blaze® 46	2
Sun Blaze® 48	2





Fixture Type	Max # Chained @ 120V	Max # Chained @ 240V
New Wave® 28	5	9
New Wave® 44	5	8
New Wave® 48	3	5

## **REFLECTOR MOUNTING HEIGHTS**

A general guideline for the proper hanging height of an H.I.D. lamp would be 12"-48" depending on wattage (see below). Make sure to check for excessive heat at the top of your plants by placing your hand (palm down) over your plants. If the top of your hand is hot, you need to move your lamp up higher. If the light source is too close to your plants, you can burn them. Remember that as your plants grow you will need to adjust the height of your lamp.

Please keep in mind that the latest air-cooled reflectors, like the Super Sun® 2 allow you to place higher wattage bulbs closer to plants than was possible in the past.

When you raise the light up & away from your plants, you need to be aware that the light levels to your plants will be significantly reduced.

As light moves away from its source (the lamp) it diminishes as follows: 1/Distance<sup>2</sup>. For example: 1 ft. = 1000 FTC, 2 ft. = 250 FTC, 3 ft. = 111 FTC, 4 ft. = 63 FTC, 5 ft. = 40 FTC, & 6 ft. = 28 FTC (FTC = foot candle).

## **COVERAGE AREA**

A fluorescent fixture can be placed much closer to plants than an H.I.D. fixture because it produces very little heat. You should place your fluorescent lights as close to the tops of your plants as you can without excluding the outside perimeter of your garden.

## H.I.D. AVERAGE COVERAGE AREA BY WATTAGE

150/175 watts covers approximately 2' x 2' area 250 watts cover approximately 3' x 3' area 400 watts covers approximately 4' x 4' area 600 watts covers approximately 6.5' x 6.5' area

1000 watts covers approximately 8' x 8' area

NOTE: Coverage area may be reduced if this is your primary light source.



**Note:** This is a general guideline for non-air-cooled reflectors. Air-cooled reflectors can be placed much closer to the plant canopy.

## TROUBLESHOOTING... IF YOUR FIXTURE DOES NOT WORK:

- 1. <u>CHECK YOUR ELECTRICAL SOURCE</u>: Make sure the unit is plugged in properly and that the breaker is not tripped or fuse blown.
- 2. <u>CHECK THE LAMP:</u> Make sure the lamp is screwed in all the way.
- 3. <u>FOR T5 FLUORESCENT FIXTURES:</u> Check to ensure lamps are properly locked into place. This is accomplished by turning the lamps <sup>1</sup>/<sub>4</sub> turn in either direction.
- 4. Try a different lamp if you have one available. Make sure unit is unplugged when changing lamps.
- 5. Make sure you have the correct lamp for your ballast, i.e. an HPS lamp will not ignite with a MH ballast.

## FAQ's

#### **<u>Symptom</u>**: My ballast is humming but the light isn't coming on.

**Solution:** There may be a couple of reasons for this: 1) the lamp is not screwed in tight enough, or 2) the lamp is defective. Please allow 5 - 10 minutes for lamps to initially ignite. If this does not solve the problem, return the unit to the dealer for testing.

#### **Symptom:** My ballast makes an excessive amount of noise.

**Solution:** Keep in mind that the higher the wattage, the louder the humming noise emitted. However, if the noise level is extreme, the transformer may have come loose. In this case, the ballast unit should be returned to Sunlight Supply<sup>®</sup>, Inc. for repair if it is still under warranty and has been used under normal operating conditions.

#### **Symptom:** Every time I turn on the light fixture, the circuit breaker trips.

**Solution:** You may have too many appliances on this circuit. A normal home's circuit has only 15 amps available. These H.I.D. lights use up to 10 amps per unit. Please make sure you are not overloading the circuit with too many appliances and/or lights. Note: The sticker on the ballast will state the number of amps required by that particular unit. If you do require more lights/appliances to all be run off the same circuit, you should consult an licensed Electrician.

#### **<u>Symptom:</u>** I turned off my HID light and now it won't come back on.

**Solution:** Your lamp may take up to 20 minutes to cool down before it can be fired up again. Fluorescent lamps should be almost immediate.

#### **Symptom:** My lamp has small pieces of glass inside of it.

**Solution:** It is common for small pieces of glass to break loose inside the lamps; this will not affect the lamps output. If there is a crack or hole in the outer glass, it should be replaced.

### IF NONE OF THE ABOVE PROCEDURES HELP, PLEASE CONTACT THE RETAIL STORE WHERE YOU PURCHASED THE UNIT.

### How do I know my lamps are functioning normally? FACTS about HID and FLUORESCENT LAMPS:

- It may take HID or T5 fluorescent 10-15 minutes to come to full brightness.
- HID: During the first few hours of use, the light from the lamp might oscillate.
- HID: The light will decrease in intensity during the life of the lamp.
- HID: During the first hours, intensity of the light may fluctuate somewhat, which is normal. However after it reaches 100 hours of "burn in" time, will continue evenly the remainder of it's life (with normal aging reduction).
- Both: Average life of a MH (metal halide) lamp is 12,000 hours for a 1000 watt lamp and 20,000 hours for a 400 watt lamp. The rated hour life of a HPS lamp is 24,000 hours. Most users choose to replace lamps before they cease to operate due to lumen loss and spectral shift. T5 fluorescent lamps offer a rated hour life of 20,000 hours and have a much slower lumen loss and spectral shift than HID lamps.

## **POWER USAGE:**

On average, a light system will increase your electricity cost from \$8 to \$20 per month — the exact amount depends on the size of the system and the number of hours operated. However, since these grow lights are so energy efficient, you are getting huge amounts of light (and growing power) for your money! Make sure your grow room's power circuit can handle the power draw. For safety reasons, do not exceed 75% of the rated ability of the fuse/ breaker (for example: use no more than 15 amps on a 20 amp circuit). To calculate your cost, multiply the bulb wattage X hours of operation and divide by 1000. This figure is the number of kilowatt hours of electricity consumed. (Example: a 400 watt bulb running for 18 hours will use 7.2 kilowatt hours). Check your power bill for the cost of each kilowatt hour. Then multiply the number of kilowatt hours by the cost of a kilowatt hour (K/hr) to arrive at the cost per month to run the light in your area.

POW	ER COS	T ESTIN	NATION	GUIDE	PER M	ONTH (	ASSUM	S 30 D	AY MO	NTH)		
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		E	XAMPLE:	6 HRS X	52 WATTS	S* ÷ 100	0 X \$ .04	PER KWH	X 30 DA	YS = \$ .3	7	
6 HRS X 30 DAYS	\$0.37	\$0.56	\$0.75	\$0.94	\$1.12	\$1.31	\$1.50	\$1.68	\$1.87	\$2.06	\$2.25	\$2.43
8 HRS X 30 DAYS	\$0.50	\$0.75	\$1.00	\$1.25	\$1.50	\$1.75	\$2.00	\$2.25	\$2.50	\$2.75	\$3.00	\$3.24
10 HRS X 30 DAYS	\$0.62	\$0.94	\$1.25	\$1.56	\$1.87	\$2.18	\$2.50	\$2.81	\$3.12	\$3.43	\$3.74	\$4.06
12 HRS X 30 DAYS	\$0.75	\$1.12	\$1.50	\$1.87	\$2.25	\$2.62	\$3.00	\$3.37	\$3.74	\$4.12	\$4.49	\$4.87
14 HRS X 30 DAYS	\$0.87	\$1.31	\$1.75	\$2.18	\$2.62	\$3.06	\$3.49	\$3.93	\$4.37	\$4.80	\$5.24	\$5.68
16 HRS X 30 DAYS	\$1.00	\$1.50	\$2.00	\$2.50	\$3.00	\$3.49	\$3.99	\$4.49	\$4.99	\$5.49	\$5.99	\$6.49
18 HRS X 30 DAYS	\$1.12	\$1.68	\$2.25	\$2.81	\$3.37	\$3.93	\$4.49	\$5.05	\$5.62	\$6.18	\$6.74	\$7.30
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A 48 watt lighting fixture uses 52 watts per hour. For use with the New Wave® 22, Sun Blaze® 22 & Ready Fit® 2 ft.

POW	POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)											
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		EX	AMPLE: 6	6 HRS X 1	04 WATT	'S* ÷ 100	)0 X \$ .04	PER KW	H X 30 D/	AYS = \$	75	
6 HRS X 30 DAYS	\$0.75	\$1.12	\$1.50	\$1.87	\$2.25	\$2.62	\$3.00	\$3.37	\$3.74	\$4.12	\$4.49	\$4.87
8 HRS X 30 DAYS	\$1.00	\$1.50	\$2.00	\$2.50	\$3.00	\$3.49	\$3.99	\$4.49	\$4.99	\$5.49	\$5.99	\$6.49
10 HRS X 30 DAYS	\$1.25	\$1.87	\$2.50	\$3.12	\$3.74	\$4.37	\$4.99	\$5.62	\$6.24	\$6.86	\$7.49	\$8.11
12 HRS X 30 DAYS	\$1.50	\$2.25	\$3.00	\$3.74	\$4.49	\$5.24	\$5.99	\$6.74	\$7.49	\$8.24	\$8.99	\$9.73
14 HRS X 30 DAYS	\$1.75	\$2.62	\$3.49	\$4.37	\$5.24	\$6.12	\$6.99	\$7.86	\$8.74	\$9.61	\$10.48	\$11.36
16 HRS X 30 DAYS	\$2.00	\$3.00	\$3.99	\$4.99	\$5.99	\$6.99	\$7.99	\$8.99	\$9.98	\$10.98	\$11.98	\$12.98
18 HRS X 30 DAYS	\$2.25	\$3.37	\$4.49	\$5.62	\$6.74	\$7.86	\$8.99	\$10.11	\$11.23	\$12.36	\$13.48	\$14.60
* 1 96 w	att lighting	fivturo uo	oc 10/ w	atte nor h	our For	uco with	the New V	/avo <sup>®</sup> 2/	l & Sun R	lazo® 21		

A 96 wath lighting fixture uses 104 waths per hour. For use with the New Wave® 24 & Sun Blaze® 24.

POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)												
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		E>	(AMPLE:	6 HRS X	117 WAT	TS* ÷ 10	00 X \$ .0	4 PER KW	'H X 30 D	AYS = \$ .	84	
6 HRS X 30 DAYS	\$0.84	\$1.26	\$1.68	\$2.11	\$2.53	\$2.95	\$3.37	\$3.79	\$4.21	\$4.63	\$5.05	\$5.48
8 HRS X 30 DAYS	\$1.12	\$1.68	\$2.25	\$2.81	\$3.37	\$3.93	\$4.49	\$5.05	\$5.62	\$6.18	\$6.74	\$7.30
10 HRS X 30 DAYS	\$1.40	\$2.11	\$2.81	\$3.51	\$4.21	\$4.91	\$5.62	\$6.32	\$7.02	\$7.72	\$8.42	\$9.13
12 HRS X 30 DAYS	\$1.68	\$2.53	\$3.37	\$4.21	\$5.05	\$5.90	\$6.74	\$7.58	\$8.42	\$9.27	\$10.11	\$10.95
14 HRS X 30 DAYS	\$1.97	\$2.95	\$3.93	\$4.91	\$5.90	\$6.88	\$7.86	\$8.85	\$9.83	\$10.81	\$11.79	\$12.78
16 HRS X 30 DAYS	\$2.25	\$3.37	\$4.49	\$5.62	\$6.74	\$7.86	\$8.99	\$10.11	\$11.23	\$12.36	\$13.48	\$14.60
18 HRS X 30 DAYS	\$2.53	\$3.79	\$5.05	\$6.32	\$7.58	\$8.85	\$10.11	\$11.37	\$12.64	\$13.90	\$15.16	\$16.43
* A 108 watt lighting fixture uses 117 watts per hour. For use with the Tek-Light™ 42, New Wave® 42 & Ready Fit® 4 ft.												

POW	POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)												
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢	
HRS. PER DAY X 30 DAYS		EX	AMPLE: 6	HRS X 1	65 WATT	S*÷100	0 X \$ .04	PER KWH	1 X 30 DA	YS = \$ 1.	.19		
6 HRS X 30 DAYS	\$1.19	\$1.78	\$2.38	\$2.97	\$3.56	\$4.16	\$4.75	\$5.35	\$5.94	\$6.53	\$7.13	\$7.72	
8 HRS X 30 DAYS	\$1.58	\$2.38	\$3.17	\$3.96	\$4.75	\$5.54	\$6.34	\$7.13	\$7.92	\$8.71	\$9.50	\$10.30	
10 HRS X 30 DAYS	\$1.98	\$2.97	\$3.96	\$4.95	\$5.94	\$6.93	\$7.92	\$8.91	\$9.90	\$10.89	\$11.88	\$12.87	
12 HRS X 30 DAYS	\$2.38	\$3.56	\$4.75	\$5.94	\$7.13	\$8.32	\$9.50	\$10.69	\$11.88	\$13.07	\$14.26	\$15.44	
14 HRS X 30 DAYS	\$2.77	\$4.16	\$5.54	\$6.93	\$8.32	\$9.70	\$11.09	\$12.47	\$13.86	\$15.25	\$16.63	\$18.02	
16 HRS X 30 DAYS	\$3.17	\$4.75	\$6.34	\$7.92	\$9.50	\$11.09	\$12.67	\$14.26	\$15.84	\$17.42	\$19.01	\$20.59	
18 HRS X 30 DAYS	\$3.56	\$5.35	\$7.13	\$8.91	\$10.69	\$12.47	\$14.26	\$16.04	\$17.82	\$19.60	\$21.38	\$23.17	
* A 150 watt lighting fixture uses 165 watts per hour. For use with the Sun System® 4 & Sun System HPS 150.													

POW	ER COS	T ESTIN	ATION	GUIDE	PER M	ONTH (	ASSUM	ES 30 D	AY MO	NTH)		
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		EX	AMPLE:	6 HRS X	196 WAT	TS* ÷ 10	00 X \$ .0 <sup>,</sup>	4 PER KW	H X 30 D/	AYS = \$1.	.41	
6 HRS X 30 DAYS	\$1.41	\$2.12	\$2.82	\$3.53	\$4.23	\$4.94	\$5.64	\$6.35	\$7.06	\$7.76	\$8.47	\$9.17
8 HRS X 30 DAYS	\$1.88	\$2.82	\$3.76	\$4.70	\$5.64	\$6.59	\$7.53	\$8.47	\$9.41	\$10.35	\$11.29	\$12.23
10 HRS X 30 DAYS	\$2.35	\$3.53	\$4.70	\$5.88	\$7.06	\$8.23	\$9.41	\$10.58	\$11.76	\$12.94	\$14.11	\$15.29
12 HRS X 30 DAYS	\$2.82	\$4.23	\$5.64	\$7.06	\$8.47	\$9.88	\$11.29	\$12.70	\$14.11	\$15.52	\$16.93	\$18.35
14 HRS X 30 DAYS	\$3.29	\$4.94	\$6.59	\$8.23	\$9.88	\$11.52	\$13.17	\$14.82	\$16.46	\$18.11	\$19.76	\$21.40
16 HRS X 30 DAYS	\$3.76	\$5.64	\$7.53	\$9.41	\$11.29	\$13.17	\$15.05	\$16.93	\$18.82	\$20.70	\$22.58	\$24.46
18 HRS X 30 DAYS	\$4.23	\$6.35	\$8.47	\$10.58	\$12.70	\$14.82	\$16.93	\$19.05	\$21.17	\$23.28	\$25.40	\$27.52
*	Δ175 w	att liahtin	n fixture i	ises 196	watts ne	r hour <b>Fo</b>	r use with	the Sun <sup>o</sup>	System® .	4		

POW	POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)												
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢	
HRS. PER DAY X 30 DAYS		EX	AMPLE: 6	5 HRS X 2	34 WATT	S* ÷ 100	)0 X \$ .04	PER KWH	I X 30 DA	YS = \$1	.68		
6 HRS X 30 DAYS	\$1.68 \$2.53 \$3.37 \$4.21 \$5.05 \$5.90 \$6.74 \$7.58 \$8.42 \$9.27 \$10.11 \$10.95												
8 HRS X 30 DAYS	\$2.25	\$3.37	\$4.49	\$5.62	\$6.74	\$7.86	\$8.99	\$10.11	\$11.23	\$12.36	\$13.48	\$14.60	
10 HRS X 30 DAYS	\$2.81	\$4.21	\$5.62	\$7.02	\$8.42	\$9.83	\$11.23	\$12.64	\$14.04	\$15.44	\$16.85	\$18.25	
12 HRS X 30 DAYS	\$3.37	\$5.05	\$6.74	\$8.42	\$10.11	\$11.79	\$13.48	\$15.16	\$16.85	\$18.53	\$20.22	\$21.90	
14 HRS X 30 DAYS	\$3.93	\$5.90	\$7.86	\$9.83	\$11.79	\$13.76	\$15.72	\$17.69	\$19.66	\$21.62	\$23.59	\$25.55	
16 HRS X 30 DAYS	\$4.49	\$6.74	\$8.99	\$11.23	\$13.48	\$15.72	\$17.97	\$20.22	\$22.46	\$24.71	\$26.96	\$29.20	
18 HRS X 30 DAYS	\$5.05	\$7.58	\$10.11	\$12.64	\$15.16	\$17.69	\$20.22	\$22.74	\$25.27	\$27.80	\$30.33	\$32.85	
* A 216 watt ligt	* A 216 watt lighting fixture uses 234 watts per hour. <i>For use with Tek-Light™ 44. New Wave® 44 &amp; Sun Blaze® 44.</i>												

POW	POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)											
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		EX	AMPLE: 6	HRS X 2	75 WATTS	S* ÷ 100	0 X \$ .04	PER KWH	X 30 DA	YS = \$ 1.	98	
6 HRS X 30 DAYS	\$1.98	\$2.97	\$3.96	\$4.95	\$5.94	\$6.93	\$7.92	\$8.91	\$9.90	\$10.89	\$11.88	\$12.87
8 HRS X 30 DAYS	\$2.64	\$3.96	\$5.28	\$6.60	\$7.92	\$9.24	\$10.56	\$11.88	\$13.20	\$14.52	\$15.84	\$17.16
10 HRS X 30 DAYS	\$3.30	\$4.95	\$6.60	\$8.25	\$9.90	\$11.55	\$13.20	\$14.85	\$16.50	\$18.15	\$19.80	\$21.45
12 HRS X 30 DAYS	\$3.96	\$5.94	\$7.92	\$9.90	\$11.88	\$13.86	\$15.84	\$17.82	\$19.80	\$21.78	\$23.76	\$25.74
14 HRS X 30 DAYS	\$4.62	\$6.93	\$9.24	\$11.55	\$13.86	\$16.17	\$18.48	\$20.79	\$23.10	\$25.41	\$27.72	\$30.03
16 HRS X 30 DAYS	\$5.28	\$7.92	\$10.56	\$13.20	\$15.84	\$18.48	\$21.12	\$23.76	\$26.40	\$29.04	\$31.68	\$34.32
18 HRS X 30 DAYS	\$5.94	\$8.91	\$11.88	\$14.85	\$17.82	\$20.79	\$23.76	\$26.73	\$29.70	\$32.67	\$35.64	\$38.61
ŕ	* A 250 watt lighting fixture uses 275 watts per hour. <i>For use with Sun System® 2 &amp; 4.</i>											

PO	POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)												
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢	
HRS. PER DAY X 30 DAYS		E	XAMPLE:	6 HRS X 4	460 WATI	'S* ÷ 100	)0 X \$ .04	I PER KWH	1 X 30 DA	YS = \$ 3.	31		
6 HRS X 30 DAYS	\$3.31         \$4.97         \$6.62         \$8.28         \$9.94         \$11.59         \$13.25         \$14.90         \$16.56         \$18.22         \$19.87         \$21.53												
8 HRS X 30 DAYS	\$4.42	\$6.62	\$8.83	\$11.04	\$13.25	\$15.46	\$17.66	\$19.87	\$22.08	\$24.29	\$26.50	\$28.70	
10 HRS X 30 DAYS	\$5.52	\$8.28	\$11.04	\$13.80	\$16.56	\$19.32	\$22.08	\$24.84	\$27.60	\$30.36	\$33.12	\$35.88	
12 HRS X 30 DAYS	\$6.62	\$9.94	\$13.25	\$16.56	\$19.87	\$23.18	\$26.50	\$29.81	\$33.12	\$36.43	\$39.74	\$43.06	
14 HRS X 30 DAYS	\$7.73	\$11.59	\$15.46	\$19.32	\$23.18	\$27.05	\$30.91	\$34.78	\$38.64	\$42.50	\$46.37	\$50.23	
16 HRS X 30 DAYS	\$8.83	\$13.25	\$17.66	\$22.08	\$26.50	\$30.91	\$35.33	\$39.74	\$44.16	\$48.58	\$52.99	\$57.41	
18 HRS X 30 DAYS	\$9.94	\$14.90	\$19.87	\$24.84	\$29.81	\$34.78	\$39.74	\$44.71	\$49.68	\$54.65	\$59.62	\$64.58	
* A 400 watt lighting fi	* A 400 watt lighting fixture uses 460 watts per hour. For use with Sun System® 1, 2, 4, 6, 10 Harvest Pro <sup>TM</sup> & Harvest Pro <sup>TM</sup> Elite.												

POW	POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)											
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		EX	AMPLE: 6	HRS X 4	68 WATTS	S* ÷ 100	0 X \$ .04	PER KWH	X 30 DA	YS = \$ 3.	37	
6 HRS X 30 DAYS	\$3.37	\$5.05	\$6.74	\$8.42	\$10.11	\$11.79	\$13.48	\$15.16	\$16.85	\$18.53	\$20.22	\$21.90
8 HRS X 30 DAYS	\$4.49	\$6.74	\$8.99	\$11.23	\$13.48	\$15.72	\$17.97	\$20.22	\$22.46	\$24.71	\$26.96	\$29.20
10 HRS X 30 DAYS	\$5.62	\$8.42	\$11.23	\$14.04	\$16.85	\$19.66	\$22.46	\$25.27	\$28.08	\$30.89	\$33.70	\$36.50
12 HRS X 30 DAYS	\$6.74	\$10.11	\$13.48	\$16.85	\$20.22	\$23.59	\$26.96	\$30.33	\$33.70	\$37.07	\$40.44	\$43.80
14 HRS X 30 DAYS	\$7.86	\$11.79	\$15.72	\$19.66	\$23.59	\$27.52	\$31.45	\$35.38	\$39.31	\$43.24	\$47.17	\$51.11
16 HRS X 30 DAYS	\$8.99	\$13.48	\$17.97	\$22.46	\$26.96	\$31.45	\$35.94	\$40.44	\$44.93	\$49.42	\$53.91	\$58.41
18 HRS X 30 DAYS	\$10.11	\$15.16	\$20.22	\$25.27	\$30.33	\$35.38	\$40.44	\$45.49	\$50.54	\$55.60	\$60.65	\$65.71
* A 432 watt lia	uhtina fixti	ire uses 4		per hour. I	For use w	ith Tek-L	iaht™ 48.	New Wa	ve® 48 8	sun Bla	7e <sup>®</sup> 48.	

POWER COST ESTIMATION GUIDE PER MONTH (ASSUMES 30 DAY MONTH)												
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		EX	AMPLE: 6	HRS X 68	30 WATTS	* ÷ 1000	) X \$ .04	PER KWH	I X 30 DA'	YS = \$ 4.	90	
6 HRS X 30 DAYS	\$4.90	\$7.34	\$9.79	\$12.24	\$14.69	\$17.14	\$19.58	\$22.03	\$24.48	\$26.93	\$29.38	\$31.82
8 HRS X 30 DAYS	\$6.53	\$9.79	\$13.06	\$16.32	\$19.58	\$22.85	\$26.11	\$29.38	\$32.64	\$35.90	\$39.17	\$42.43
10 HRS X 30 DAYS	\$8.16	\$12.24	\$16.32	\$20.40	\$24.48	\$28.56	\$32.64	\$36.72	\$40.80	\$44.88	\$48.96	\$53.04
12 HRS X 30 DAYS	\$9.79	\$14.69	\$19.58	\$24.48	\$29.38	\$34.27	\$39.17	\$44.06	\$48.96	\$53.86	\$58.75	\$63.65
14 HRS X 30 DAYS	\$11.42	\$17.14	\$22.85	\$28.56	\$34.27	\$39.98	\$45.70	\$51.41	\$57.12	\$62.83	\$68.54	\$74.26
16 HRS X 30 DAYS	\$13.06	\$19.58	\$26.11	\$32.64	\$39.17	\$45.70	\$52.22	\$58.75	\$65.28	\$71.81	\$78.34	\$84.86
18 HRS X 30 DAYS	\$14.69	\$22.03	\$29.38	\$36.72	\$44.06	\$51.41	\$58.75	\$66.10	\$73.44	\$80.78	\$88.13	\$95.47
* A 600 watt lighting	g fixture u	ses 680 w	atts per h	our. <b>For u</b>	ise with S	un Syste	m® 1, 10	, Harvest	Pro™&	Harvest	Pro™ Elit	e.

PO	WER C	OST ES	TIMATIC	DN GUI	DE PER	MONT	H (ASSI	UMES 3	D DAY M	IONTH)		
COST PER KW/HR	4¢	6¢	8¢	10¢	12¢	14¢	16¢	18¢	20¢	22¢	24¢	26¢
HRS. PER DAY X 30 DAYS		EXAMPLE: 6 HRS X 1100 WATTS* ÷ 1000 X \$ .04 PER KWH X 30 DAYS = \$ 7.92										
6 HRS X 30 DAYS	\$7.92	\$11.88	\$15.84	\$19.80	\$23.76	\$27.72	\$31.68	\$35.64	\$39.60	\$43.56	\$47.52	\$51.48
8 HRS X 30 DAYS	\$10.56	\$15.84	\$21.12	\$26.40	\$31.68	\$36.96	\$42.24	\$47.52	\$52.80	\$58.08	\$63.36	\$68.64
10 HRS X 30 DAYS	\$13.20	\$19.80	\$26.40	\$33.00	\$39.60	\$46.20	\$52.80	\$59.40	\$66.00	\$72.60	\$79.20	\$85.80
12 HRS X 30 DAYS	\$15.84	\$23.76	\$31.68	\$39.60	\$47.52	\$55.44	\$63.36	\$71.28	\$79.20	\$87.12	\$95.04	\$102.96
14 HRS X 30 DAYS	\$18.48	\$27.72	\$36.96	\$46.20	\$55.44	\$64.68	\$73.92	\$83.16	\$92.40	\$101.64	\$110.88	\$120.12
16 HRS X 30 DAYS	\$21.12	\$31.68	\$42.24	\$52.80	\$63.36	\$73.92	\$84.48	\$95.04	\$105.60	\$116.16	\$126.72	\$137.28
18 HRS X 30 DAYS	\$23.76	\$35.64	\$47.52	\$59.40	\$71.28	\$83.16	\$95.04	\$106.92	\$118.80	\$130.68	\$142.56	\$154.44
* A 1000 watt lighting	000 watt lighting fixture uses 1100 watts per hour. For use with Sun System® 1, 6, 10, Harvest Pro™ & Harvest Pro™ Elite.											

# <u>Returning Units</u>: Please contact your retail store for returns.

## WARRANTY SERVICE: Please read warranty information first

If after reviewing the troubleshooting tips the light will still not work, you should return the light to the dealer where you purchased it. They will be able to further evaluate the light and test its various components and quite possibly will be able to identify and/or fix any problems. Often the problem is as simple as a defective lamp. If the dealer is unable to fix the light, they will return it to us for factory repair. Many dealers have loaner ballasts that you may check out until yours is returned (usually not more than 7-10 days).

If there are no dealers in your area, you may contact us directly for technical support. If we cannot help you resolve the problem over the phone, we will issue you a RMA # (return merchandise authorization) authorizing you to return the system to us for factory reconditioning (if the unit is under warranty). Contact a Sunlight Supply<sup>®</sup> service center closest to you for a RMA and shipping address. Complete the form below and include it with your lighting fixture. Also please write the RMA # on the outside of the box.

Please package the light carefully in its original packaging. If it is damaged in shipment we cannot be responsible.

Once we receive the light back, we will repair it within 48 hours (business) and return it to you freight prepaid via FedEx or UPS ground shipment.

<ul> <li>Proof of purchase</li> <li>This completed form</li> </ul>		
<ul> <li>This completed form</li> <li>RMA # on the outside</li> </ul>	of the hox	
Return Merchandise Authorize	ntion Number (	Required):
Community Names		
Contact Name:		
Address:		
Phone #:		
Email address:		
What is the nature of the area	امسا	
Cond to wave named la suffer	<ul> <li>– shipping add</li> </ul>	ress will be given when the RMA # is issued:
Sena to your nearest location	West	888.582.2762
Technical Support Numbers:		
Technical Support Numbers:	East	888.583.2762

# **IMPORTANT:** PROOF OF PURCHASE REQUIRED FOR RETURNS

SUN SYSTEM® SERIES = 5 Year Warranty SUN SYSTEM® GREENHOUSE FIXTURE, BUDGET GRO<sup>TM</sup> II, TEK-LIGHT<sup>TM</sup> & NEW WAVE<sup>®</sup> = 2 Year Warranty READY FIT<sup>®</sup> = 1 Year Warranty

# <u>Returning Units</u>: Please contact your retail store for returns.

## WARRANTY INFORMATION:

Sunlight Supply<sup>®</sup>, Inc. warrants to the original purchaser of this product against defects in material and workmanship under normal use for five (5) years on any SUN SYSTEM<sup>®</sup>, two (2) years on SUN SYSTEM<sup>®</sup> GREENHOUSE FIXTURE, BUDGET GRO<sup>™</sup> II, TEK-LIGHT<sup>™</sup> & NEW WAVE<sup>®</sup> and one (1) year on READY FIT<sup>®</sup> from the date of purchase. During the warranty period, Sunlight Supply<sup>®</sup> will, at our option, and without charge, repair or replace this product if the unit or any of it's components fail or malfunction.

This warranty is expressly in lieu of all other warranties, expressed or implied, including the warranties of merchantability and fitness for use and of all other obligations or liabilities on the part of the seller. This warranty shall not apply to this product or any part thereof which has been damaged by accident, abuse, misuse, modification, negligence, alteration or misapplication. Sunlight Supply<sup>®</sup> makes no warranty whatsoever in respect to accessories or parts not supplied by Sunlight Supply<sup>®</sup>. This warranty shall apply only to the United States, including Alaska, Hawaii and territories of the United States.

NOTE: Sunlight Supply<sup>®</sup>, Inc. is a manufacturer of supplementary lighting systems. All sales offerings to the public are done through a nationwide group of dealers. No sales offerings will be made directly to the general public.